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# Analysis of the LaSalle Unit 2 Nuclear Power Plant: Risk Methods Integration and Evaluation Program (RMIEP)

Internal Events Accident Sequence Quantification

Appendices

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Prepared by  
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## ABSTRACT

This volume presents the methodology and results of the internal event accident sequence analysis of the LaSalle Unit 11 nuclear power plant performed as part of the Level III Probabilistic Risk Assessment being performed by Sandia National Laboratories for the Nuclear Regulatory Commission.

This report describes the new techniques developed to solve the very large and logically complicated fault trees developed in the modeling of the LaSalle systems, for evaluating the large number of cut sets in the accident sequences, for the application of recovery actions to these cut sets, and for the evaluation of the effects of containment failure on the systems and the resolution of core vulnerable accident sequences.

The LOCA, transient, transient-induced LOCAs, and anticipated accidents without scram accidents resulting from internal initiators are evaluated and the final dominant accident sequences are determined. Integrated results are obtained by merging all of the accident sequences' cut sets together and evaluating the resulting expression. Integrated risk reduction, risk increase, and uncertainty importance measures are obtained. Also, an overall ranking of the dominant cut sets is obtained.

The total internal core damage frequency has a mean value of  $4.41E-05/R$ -yr. with a 5th percentile of  $2.05E-6/R$ -yr., a median value of  $1.64E-05/R$ -yr., and a 95th percentile of  $1.39E-04/R$ -yr. The dominant cut sets all involve loss of the emergency core cooling systems (ECCS) as a result of common mode failure of the diesel generator cooling water pumps which results in delayed failure of the ECCS injection systems and control rod drive and either a complete loss of offsite power resulting in a short or long-term station blackout accident (depending on the status of the reactor core isolation cooling system, RCIC) or a loss of train A AC or DC power resulting in a loss of feedwater control and closure of one set of the main steam isolation valves.

The events most important to risk reduction are: the frequency of loss of offsite power, the non-recovery of offsite power within one hour, the diesel cooling water pump common mode failure, and the non-recoverable isolation of RCIC during station blackouts. The events most important to risk increase are: the failure of various AC power circuit breakers resulting in partial loss of on-site AC power, the failure to scram, and the diesel generator cooling water pump random failure rate (determines the magnitude of the common mode contribution). The dominant contributors to uncertainty are: the uncertainty in control circuit failure rates, the uncertainty in relay coil failure to energize, the uncertainty in energized relay coils failing deenergized, the uncertainty in the loss of offsite power frequency, and the uncertainty in diesel generator failure to start.

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## FOREWORD

### LaSalle Unit 2 Level III Probabilistic Risk Assessment

In recent years, applications of Probabilistic Risk Assessment (PRA) to nuclear power plants have experienced increasing acceptance and use, particularly in addressing regulatory issues. Although progress on the PRA front has been impressive, the usage of PRA methods and insights to address increasingly broader regulatory issues has resulted in the need for continued improvement in and expansion of PRA methods to support the needs of the Nuclear Regulatory Commission (NRC).

Before any new PRA methods can be considered suitable for routine use in the regulatory arena, they need to be integrated into the overall framework of a PRA, appropriate interfaces defined, and the utility of the methods evaluated. The LaSalle Unit 2 Level III PRA, described in this and associated reports, integrates new methods and new applications of previous methods into a PRA framework that provides for this integration and evaluation. It helps lay the bases for both the routine use of the methods and the preparation of procedures that will provide guidance for future PRAs used in addressing regulatory issues. These new methods, once integrated into the framework of a PRA and evaluated, lead to a more complete PRA analysis, a better understanding of the uncertainties in PRA results, and broader insights into the importance of plant design and operational characteristics to public risk.

In order to satisfy the needs described above, the LaSalle Unit 2 Level III PRA addresses the following broad objectives:

1. To develop and apply methods to integrate internal, external, and dependent failure risk methods to achieve greater efficiency, consistency, and completeness in the conduct of risk assessments;
2. To evaluate PRA technology developments and formulate improved PRA procedures;
3. To identify, evaluate, and effectively display the uncertainties in PRA risk predictions that stem from limitations in plant modeling, PRA methods, data, or physical processes that occur during the evolution of a severe accident;
4. To conduct a PRA on a BWR 5, Mark II nuclear power plant, ascertain the plant's dominant accident sequences, evaluate the core and containment response to accidents, calculate the consequences of the accidents, and assess overall risk; and finally
5. To formulate the results in such a manner as to allow the PRA to be easily updated and to allow testing of future improvements in methodology, data, and the treatment of phenomena.

The LaSalle Unit 2 PRA was performed for the NRC by Sandia National Laboratories (SNL) with substantial help from Commonwealth Edison (CECo) and its contractors. Because of the size and scope of the PRA, various related programs were set up to conduct different aspects of the analysis. Additionally, existing programs had tasks added to perform some analyses for the LaSalle PRA. The responsibility for overall direction of the PRA was assigned to the Risk Methods Integration and Evaluation Program (RMIEP). RMIEP was specifically responsible for all aspects of the Level I analysis (i.e., the core damage analysis). The Phenomenology and Risk Uncertainty Evaluation Program (PRUEP) was responsible for the Level II/III analysis (i.e., accident progression, source term, consequence analyses, and risk integration). Other programs provided support in various areas or performed some of the subanalyses. These programs include the Seismic Safety Margins Research Program (SSMRP) at Lawrence Livermore National Laboratory (LLNL), which performed the seismic analysis; the Integrated Dependent Failure Analysis Program, which developed methods and analyzed data for dependent failure modeling; the MELCOR Program, which modified the MELCOR code in response to the PRA's modeling needs; the Fire Research Program, which performed the fire analysis; the PRA Methods Development Program, which developed some of the new methods used in the PRA; and the Data Programs, which provided new and updated data for BWR plants similar to LaSalle. CECo provided plant design and operational information and reviewed many of the analysis results.

The LaSalle PRA was begun before the NUREG-1150 analysis and the LaSalle program has supplied the NUREG-1150 program with simplified location analysis methods for integrated analysis of external events, insights on possible subtle interactions that come from the very detailed system models used in the LaSalle PRA, core vulnerable sequence resolution methods, methods for handling and propagating statistical uncertainties in an integrated way through the entire analysis, and BWR thermal-hydraulic models which were adapted for the Peach Bottom and Grand Gulf analyses.

The Level I results of the LaSalle Unit 2 PRA are presented in: "Analysis of the LaSalle Unit 2 Nuclear Power Plant: Risk Methods Integration and Evaluation Program (RMIEP)," NUREG/CR-4832, SAND92-0537, ten volumes. The reports are organized as follows:

- NUREG/CR-4832 - Volume 1: Summary Report.
- NUREG/CR-4832 - Volume 2: Integrated Quantification and Uncertainty Analysis.
- NUREG/CR-4832 - Volume 3: Internal Events Accident Sequence Quantification.
- NUREG/CR-4832 - Volume 4: Initiating Events and Accident Sequence Delineation.

- NUREG/CR-4832 - Volume 5: Parameter Estimation Analysis and Human Reliability Screening Analysis.
- NUREG/CR-4832 - Volume 6: System Descriptions and Fault Tree Definition.
- NUREG/CR-4832 - Volume 7: External Event Scoping Quantification.
- NUREG/CR-4832 - Volume 8: Seismic Analysis.
- NUREG/CR-4832 - Volume 9: Internal Fire Analysis.
- NUREG/CR-4832 - Volume 10: Internal Flood Analysis.

The Level II/III results of the LaSalle Unit 2 PRA are presented in: "Integrated Risk Assessment For the LaSalle Unit 2 Nuclear Power Plant: Phenomenology and Risk Uncertainty Evaluation Program (PRUEP)," NUREG/CR-5305, SAND90-2765, 3 volumes. The reports are organized as follows:

- NUREG/CR-5305 - Volume 1: Main Report
- NUREG/CR-5305 - Volume 2: Appendices A-G
- NUREG/CR-5305 - Volume 3: MELCOR Code Calculations

Important associated reports have been issued by the RMIEP Methods Development Program in: NUREG/CR-4834, Recovery Actions in PRA for the Risk Methods Integration and Evaluation Program (RMIEP); NUREG/CR-4835, Comparison and Application of Quantitative Human Reliability Analysis Methods for the Risk Methods Integration and Evaluation Program (RMIEP); NUREG/CR-4836, Approaches to Uncertainty Analysis in Probabilistic Risk Assessment; NUREG/CR-4838, Microcomputer Applications and Modifications to the Modular Fault Trees; and NUREG/CR-4840, Procedures for the External Event Core Damage Frequency Analysis for NUREG-1150.

Some of the computer codes, expert judgement elicitations, and other supporting information used in this analysis are documented in associated reports, including: NUREG/CR-4586, User's Guide for a Personal-Computer-Based Nuclear Power Plant Fire Data Base; NUREG/CR-4598, A User's Guide for the Top Event Matrix Analysis Code (TEMAC); NUREG/CR-5032, Modeling Time to Recovery and Initiating Event Frequency for Loss of Off-Site Power Incidents at Nuclear Power Plants; NUREG/CR-5088, Fire Risk Scoping Study: Investigation of Nuclear Power Plant Fire Risk, Including Previously Unaddressed Issues; NUREG/CR-5174, A Reference Manual for the Event Progression Analysis Code (EVNTRE); NUREG/CR-5253, PARTITION: A Program for Defining the Source Term/Consequence Analysis Interface in the NUREG-1150 Probabilistic Risk Assessments, User's Guide; NUREG/CR-5262, PRAMIS: Probabilistic Risk Assessment Model Integration System, User's Guide; NUREG/CR-5331, MELCOR Analysis for Accident Progression Issues; NUREG/CR-5346, Assessment of the XSOR Codes; and NUREG/CR-5380, A









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INTERNAL EVENTS TOTAL PLANT RUN

TOP EVENT TOTAL                    CONTAINS    391 EVENTS IN    3589 CUT SETS  
THE FREQUENCY OF TOP EVENT TOTAL                    IS    3.11E-05

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT TOTAL

N	300
MEAN	4.41E-05
STD DEV	9.77E-05
LOWER 5%	2.05E-06
LOWER 25%	7.05E-06
MEDIAN	1.64E-05
UPPER 25%	4.02E-05
UPPER 5%	1.39E-04

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD \* EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD \* (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

INTERNAL EVENTS TOTAL PLANT RUN  
RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	UCCUR	PROB	PROB (RANK)	RISK		
				REDUCTION (RANK)	LOWER 5%	UPPER 5%
RA-8-1H	608	2.50E-01	( 42.0)	1.89E-05	( 1.0)	8.96E-05
DGCOOL-BETA	27	1.10E-01	( 49.5)	1.77E-05	( 2.5)	7.48E-05
DCOOL-PMS-CM	27	2.50E-03	(161.5)	1.77E-05	( 2.5)	7.48E-05
RCICRMOOL-FLAG	1023	1.00E+00	( 7.5)	1.09E-05	( 4.0)	1.69E-05
OPFAILS-REOPEN	179	1.00E+00	( 9.5)	8.87E-06	( 5.0)	1.29E-05
RA-NONE	306	1.00E+00	( 9.5)	6.19E-06	( 6.0)	8.70E-08
RA-9-1R	468	9.30E-01	( 21.0)	5.16E-06	( 7.0)	1.13E-07
DG0-GEN-LF-FTS	807	2.50E-02	( 67.0)	5.14E-06	( 8.0)	2.39E-08
AP040X2-ROO-LFO	604	2.00E-02	( 84.0)	3.75E-06	( 9.0)	7.93E-08
DG2B-GEN-LF-FTS	561	2.50E-02	( 67.0)	2.74E-06	( 10.0)	2.09E-05
SUR-003-L	326	1.60E-01	( 46.0)	2.70E-06	( 11.0)	1.58E-11
1E82348-BCO-LF	176	7.20E-05	(363.5)	2.08E-06	( 12.0)	1.58E-11
RA-8-10H	1179	2.00E-02	( 84.0)	1.74E-06	( 13.0)	9.65E-09
RA-9-2H	1162	8.70E-01	( 23.0)	1.71E-06	( 14.0)	9.51E-09
RA-8-8H	468	2.70E-02	( 64.0)	1.71E-06	( 15.0)	7.83E-06
1E4327NY-ROO-LFO	360	2.00E-02	( 84.0)	1.66E-06	( 16.0)	8.22E-09
1E4327NX-ROO-LFO	358	2.00E-02	( 84.0)	1.63E-06	( 17.0)	8.10E-09
CONT-LEAK	932	7.50E-01	( 24.0)	1.62E-06	( 18.0)	0.00E+00
AP039X2-ROO-LFO	342	2.00E-02	( 84.0)	1.56E-06	( 19.0)	8.34E-09
EE-MOP-PSW-BC-R	78	3.30E-01	( 39.0)	1.01E-06	( 20.0)	1.21E-05
EE-MOC-IAS-CB-R	26	3.30E-01	( 39.0)	9.24E-07	( 21.5)	5.81E-06
EE-MVC-IAS-AB-R	26	3.30E-01	( 39.0)	9.24E-07	( 21.5)	5.81E-06
DG0-GEN-LF-FTR	545	1.90E-02	(100.0)	9.10E-07	( 23.0)	2.51E-09
DG2A-GEN-LF-FTR	445	1.90E-02	(100.0)	6.51E-07	( 24.0)	6.34E-09
RA-9-8H	394	6.00E-01	( 26.0)	5.76E-07	( 25.0)	1.71E-08
DG-FTS-BETA	14	1.20E-02	(103.0)	5.75E-07	( 26.5)	1.99E-06
DGX-GEN-CM-FTS	14	2.50E-02	( 67.0)	5.75E-07	( 26.5)	1.71E-08
RHR01AX-HTX-LFB	59	6.20E-03	(105.5)	5.64E-07	( 28.0)	1.82E-09
DG2B-GEN-LF-FTR	361	1.90E-02	(100.0)	5.40E-07	( 29.0)	1.75E-09
DG0-G-URUM	114	6.00E-03	(108.5)	5.15E-07	( 30.0)	1.12E-08
DG2A-GEN-LF-FTS	307	2.50E-02	( 67.0)	4.84E-07	( 31.0)	9.82E-09
SUR-002-L	315	1.60E-01	( 46.0)	4.74E-07	( 32.0)	0.00E+00
OPFAILSDOS-OE-EM	11	3.40E-01	( 37.0)	4.75E-07	( 33.0)	6.15E-09
TSOSSOPERCENT	3	5.00E-01	( 30.0)	4.74E-07	( 34.0)	1.88E-06
SUR-021-R	154	8.50E-02	( 55.5)	4.49E-07	( 35.0)	0.00E+00
SUR-005-V	68	2.10E-03	(186.0)	3.91E-07	( 36.0)	4.18E-09
RA-15-8H	7	4.50E-01	( 33.0)	3.58E-07	( 37.0)	8.63E-09
01	111	8.20E-03	(104.0)	3.47E-07	( 38.0)	6.34E-09
DG0-GEN-CC-FTS	174	3.70E-03	(114.0)	3.27E-07	( 39.0)	1.43E-09
RA-1-1-27H	201	2.10E-03	(186.0)	3.14E-07	( 40.0)	6.20E-11
DG2B-G-URUM	59	6.00E-03	(108.5)	3.10E-07	( 41.0)	8.84E-09
LCSC002A-P-URUM	67	3.00E-03	(125.5)	3.06E-07	( 42.0)	1.17E-09
RA-8-27H	339	3.20E-03	(119.5)	3.01E-07	( 43.0)	5.24E-11
RC1C001X-TOP-LF	49	3.00E-02	( 62.5)	2.94E-07	( 44.0)	3.42E-09
RA-3-12-80M	4	3.50E-03	(116.0)	2.94E-07	( 45.0)	7.50E-10

CSCD300A-PLG-LF	42	1.20E-03 (195.5)	2.89E-07 ( 46.0)	3.77E-10	1.73E-06
BATT-BETA	1	4.00E-02 ( 57.0)	2.76E-07 ( 48.0)	4.13E-09	1.01E-06
BATT-FTDP	1	3.60E-04 (269.0)	2.76E-07 ( 48.0)	4.13E-09	1.01E-06
RA-B-86M	1	2.00E-01 ( 43.0)	2.76E-07 ( 48.0)	4.13E-09	1.01E-06
SCSF06AA-DENER	52	1.00E+00 ( 9.5)	2.74E-07 ( 50.0)		
RHRC02AA-P-UUM	43	3.00E-03 (125.5)	2.72E-07 ( 51.0)	5.87E-10	1.38E-06
C0DG01P-P-UUM	38	3.00E-03 (125.5)	2.42E-07 ( 52.0)	4.74E-10	1.39E-06
DG2B-GEN-CC-FTS	75	3.70E-03 (114.0)	2.14E-07 ( 53.0)	1.05E-09	1.08E-06
KA-15-11	2	9.10E-01 ( 22.0)	2.13E-07 ( 54.0)	3.34E-09	8.15E-07
SJC-C07-V	40	8.70E-02 ( 53.5)	2.04E-07 ( 55.0)	1.74E-09	7.61E-07
C0DG01P-PMS-CC	36	7.50E-03 (161.5)	2.01E-07 ( 56.0)	3.34E-10	8.43E-07
RHRC02AA-P-NDUUM	26	3.00E-03 (125.5)	1.74E-07 ( 57.0)	1.75E-11	1.06E-06
CRD-REALIGN-OE	1	2.10E-03 (186.0)	1.73E-07 ( 58.0)	5.36E-10	4.94E-07
1EB36YB-BCO-LF	54	7.20E-05 (363.5)	1.56E-07 ( 59.0)	9.01E-10	1.01E-06
RA-9-27H	146	4.00E-01 ( 35.0)	1.55E-07 ( 60.0)	5.35E-12	7.10E-07
C0DG01P-PMS-LF	60	1.10E-03 (200.0)	1.55E-07 ( 61.0)	1.98E-09	9.58E-07
C2D0101P-P-UUM	34	3.00E-03 (125.5)	1.51E-07 ( 62.0)	1.34E-09	6.27E-07
RA-2-11-27H	66	1.60E-03 (193.0)	1.48E-07 ( 63.0)	1.99E-11	7.05E-07
1E42YB-V-UUM	27	1.10E-04 (339.5)	1.46E-07 ( 64.0)	0.00E+00	1.43E-06
NWVY01CA-FMS-CC	22	2.50E-03 (161.5)	1.44E-07 ( 65.5)	1.40E-11	5.82E-07
RHRB01AA-BOO-CC	22	2.50E-03 (161.5)	1.44E-07 ( 65.5)	1.40E-11	5.82E-07
LPC1-BETA	8	1.10E-01 ( 49.5)	1.31E-07 ( 67.5)	6.36E-10	4.77E-07
LPC1-PMS-CM	8	2.50E-03 (161.5)	1.31E-07 ( 67.5)	6.36E-10	4.77E-07
SEVY03CB-FMS-CC	35	2.50E-03 (161.5)	1.28E-07 ( 69.0)	1.01E-09	7.48E-07
C2DG01P-PMS-CC	33	2.50E-03 (161.5)	1.26E-07 ( 70.0)	9.75E-10	7.46E-07
1EB425B-BCC-CC	30	2.50E-03 (161.5)	1.22E-07 ( 72.0)	9.83E-10	7.01E-07
DG2V03CB-FMS-CC	30	2.50E-03 (161.5)	1.22E-07 ( 72.0)	9.83E-10	7.01E-07
1EB234B-BCC-CC	30	2.50E-03 (161.5)	1.22E-07 ( 72.0)	9.83E-10	7.01E-07
RFS	56	1.00E-05 (379.0)	1.19E-07 ( 74.0)	1.69E-09	5.28E-07
RA-MSLDV-1-2H	100	2.10E-03 (186.0)	1.11E-07 ( 75.0)	1.52E-11	7.43E-07
RHRH01BX-HTX-LFB	38	6.20E-03 (105.5)	1.06E-07 ( 76.0)	6.88E-10	4.30E-07
RA-B-48M	55	3.00E-01 ( 41.0)	1.04E-07 ( 77.0)	1.74E-09	4.43E-07
SUR-001-A-V	42	6.10E-01 ( 25.0)	9.99E-08 ( 78.0)	1.01E-09	4.49E-07
1EB236B-B-UUM	23	1.00E-04 (339.5)	9.97E-08 ( 79.0)	0.00E+00	5.69E-07
C2DG01P-PMS-LF	59	1.10E-03 (200.0)	9.73E-08 ( 80.0)	2.85E-09	4.31E-07
RHRC02AA-PMS-LF	23	1.10E-03 (200.0)	9.72E-08 ( 81.0)	3.36E-10	5.93E-07
1EB233A-BCC-AS	31	2.50E-03 (161.5)	9.61E-08 ( 82.0)	3.85E-10	4.31E-07
C0DG01F-PLG-LF	51	5.80E-04 (224.0)	9.47E-08 ( 83.0)	4.74E-10	6.45E-07
EE-C2DG01F-PLG	67	7.20E-04 (210.0)	9.00E-08 ( 84.0)	9.81E-10	3.96E-07
DAV-MOD-COM-CC	19	2.50E-03 (161.5)	8.81E-08 ( 85.0)	6.58E-10	5.81E-07
FLOW-RHR-A3	47	1.00E+00 ( 9.5)	8.37E-08 ( 86.0)		
SUR-006-V	15	8.70E-02 ( 53.5)	8.26E-08 ( 87.0)	8.04E-10	3.05E-07
1EB235A-BCO-LF	38	7.20E-05 (363.5)	8.12E-08 ( 88.0)	8.49E-12	7.50E-07
DGO-GEN-CC-FTR	68	2.80E-03 (139.0)	7.37E-08 ( 89.0)	2.13E-10	3.97E-07
LPCI-MOV-BETA	8	3.00E-02 ( 62.5)	7.07E-08 ( 90.0)	3.58E-10	2.93E-07
FLOW-RHR-B3	57	1.00E+00 ( 9.5)	6.91E-08 ( 91.0)		
DG0V01CA-RUM-0	30	1.40E-03 (194.0)	6.91E-08 ( 92.0)	1.70E-10	5.24E-07
DG2A-G-UUM	55	6.00E-03 (108.5)	6.71E-08 ( 93.0)	1.42E-09	3.52E-07
1EB413A-BOO-CC	28	2.50E-03 (161.5)	6.63E-08 ( 94.5)	2.84E-10	3.28E-07
1EB412A-BCC-CC	28	2.50E-03 (161.5)	6.63E-08 ( 94.5)	2.84E-10	3.28E-07
DG0V01CA-FMS-CC	27	2.50E-03 (161.5)	6.60E-08 ( 96.5)	2.84E-10	3.28E-07
DC-V-MOD-COM-CC	27	2.50E-03 (161.5)	6.60E-08 ( 96.5)	2.84E-10	3.28E-07

CSC002-P-UJM	25	3.00E-03 (125.5)	6.49E-08 ( 98.0)	2.84E-10	2.34E-07
EE-C00G01F-PLG	53	7.20E-04 (210.0)	6.39E-08 ( 99.0)	2.52E-10	4.20E-07
LAK9BRCR-R00-LFO	40	2.00E-02 ( 84.0)	6.34E-08 (100.5)	1.83E-11	4.09E-07
LAK18BRB-R00-LFO	40	2.00E-02 ( 84.0)	6.34E-08 (100.5)	1.83E-11	4.09E-07
1EB16212-BCC	5	8.40E-05 (346.5)	6.24E-08 (102.0)	3.7E-11	4.48E-07
D0WB202K-BCC-LF	67	2.00E-02 ( 84.0)	6.19E-08 (104.5)	1.75E-11	9.35E-07
D0WB101X-BCC-LF	67	2.00E-02 ( 84.0)	6.19E-08 (104.5)	1.75E-11	9.35E-07
D0WB102X-BCC-LF	67	2.00E-02 ( 84.0)	6.19E-08 (104.5)	1.75E-11	9.35E-07
D0WB201X-BCC-LF	67	2.00E-02 ( 84.0)	6.19E-08 (104.5)	1.75E-11	9.35E-07
1EB16211-BCC	4	8.40E-05 (346.5)	6.12E-08 (107.0)	1.60E-11	4.45E-07
HCS001C-P-UJM	16	3.00E-03 (125.5)	6.02E-08 (108.0)	2.26E-10	2.33E-07
1EB211YX-BCC-LF	9	7.20E-05 (363.5)	5.84E-08 (109.0)	4.11E-11	4.30E-07
C2DG01F-PLG-LF	41	5.80E-04 (224.0)	5.69E-08 (110.0)	5.58E-10	2.19E-07
1EB212YX-BCC-LF	7	7.20E-05 (363.5)	5.68E-08 (112.5)	3.14E-11	4.30E-07
1EB2Y22X-BCC	7	7.20E-05 (363.5)	5.68E-08 (112.5)	3.14E-11	4.29E-07
1EB36Y1X-BCC-LF	7	7.20E-05 (363.5)	5.68E-08 (112.5)	3.14E-11	4.29E-07
1EB36Y2X-BCC-LF	7	7.20E-05 (363.5)	5.68E-08 (112.5)	3.14E-11	4.29E-07
1EB1Y22X-BCC	6	7.20E-05 (363.5)	5.58E-08 (115.0)	8.49E-12	4.25E-07
SWFY02CC-FMS-CC	26	2.50E-03 (161.5)	5.51E-08 (116.0)	2.66E-10	2.59E-07
LAK10RCA-R00-LFO	38	2.00E-02 ( 84.0)	5.49E-08 (117.0)	1.71E-11	4.88E-07
OPFALLSMFW-8M	29	5.00E-01 ( 30.0)	5.48E-08 (118.0)	3.91E-10	2.47E-07
LAK93BRC-R00-LFO	46	2.00E-02 ( 84.0)	5.42E-08 (119.0)	2.37E-11	2.72E-07
DG2A-GEN-CC-FTR	60	2.80E-03 (139.0)	5.30E-08 (120.0)	2.33E-10	2.22E-07
CSC002-PMS-CC	21	2.50E-03 (161.5)	5.21E-08 (121.0)	2.40E-10	2.47E-07
1EB432C-BCC-CC	16	2.50E-03 (161.5)	5.02E-08 (124.0)	2.40E-10	2.56E-07
DGHV01CC-FMS-CC	16	2.50E-03 (161.5)	5.02E-08 (124.0)	2.40E-10	2.56E-07
1EB433C-B00-CC	16	2.50E-03 (161.5)	5.02E-08 (124.0)	2.40E-10	2.56E-07
DHV-H00-D0M-CC	16	2.50E-03 (161.5)	5.02E-08 (124.0)	2.40E-10	2.56E-07
HCS001C-PMS-ES	16	2.50E-03 (161.5)	5.02E-08 (124.0)	2.40E-10	2.56E-07
SCSF06BB-DENER	22	1.00E+00 ( 9.5)	4.94E-08 (127.0)	2.40E-10	2.56E-07
EE-CSC0300A-PLG	7	7.20E-04 (210.0)	4.83E-08 (128.0)	0.00E+00	3.44E-07
RHRC02BB-P-UJM	19	3.00E-03 (125.5)	4.83E-08 (129.0)	2.07E-10	2.04E-07
OPFALL-VENT-2H	118	2.10E-03 (186.0)	4.80E-08 (130.0)	2.59E-09	3.10E-07
DG2V02FX-KLN-LFB	33	5.80E-04 (224.0)	4.72E-08 (131.0)	4.01E-10	1.61E-07
LAK18ARA-R00-LFO	27	2.00E-02 ( 84.0)	4.60E-08 (132.0)	1.09E-11	3.11E-07
DG2E-GEN-CC-FTR	46	2.80E-03 (139.0)	4.51E-08 (133.0)	1.51E-10	2.01E-07
DG0V01FX-KLN-LFB	35	5.80E-04 (224.0)	4.50E-08 (134.0)	2.02E-10	2.13E-07
LAK14BRC-RCC-LFO	26	2.00E-02 ( 84.0)	4.45E-08 (136.0)	8.71E-12	2.02E-07
NOFLON-SPE-85X	26	1.00E+00 ( 9.5)	4.45E-08 (136.0)		
NOFLON-CSS-B7A	26	1.00E+00 ( 9.5)	4.45E-08 (136.0)		
CSCF068A-VCC-LF	18	5.00E-04 (251.0)	4.35E-08 (139.0)	1.11E-10	1.81E-07
RHRB01AA-B00-LF	18	5.00E-04 (251.0)	4.35E-08 (139.0)	8.51E-11	1.74E-07
RHRF48AA-VXO-LF	18	5.00E-04 (251.0)	4.35E-08 (139.0)	1.5E-10	1.81E-07
LAK9ARCA-R00-LFO	25	2.00E-02 ( 84.0)	4.33E-08 (141.0)	1.65E-11	2.76E-07
EE-CSC0300-PLG	34	7.20E-04 (210.0)	4.32E-08 (142.0)	2.57E-10	2.00E-07
1EB233A-BCC-LF	34	5.00E-04 (251.0)	4.32E-08 (143.0)	1.05E-10	3.11E-07
NWVY01AX-ACX-LFI	8	8.40E-04 (206.0)	4.19E-08 (144.0)	5.33E-13	2.41E-07
SEVY03AX-ACX-LFI	20	8.40E-04 (206.0)	4.04E-08 (145.0)	2.70E-10	1.99E-07
HACTK9-R00-LFO	67	2.00E-02 ( 84.0)	3.95E-08 (146.0)	2.84E-11	3.05E-07
1EB425B-BCC-LF	29	5.00E-04 (251.0)	3.89E-08 (147.5)	2.66E-10	1.61E-07
1EB234B-BCC-LF	29	5.00E-04 (251.0)	3.89E-08 (147.5)	2.66E-10	1.61E-07
DG2A-GEN-CC-F15	36	3.70E-03 (114.0)	3.77E-08 (149.0)	1.78E-10	2.15E-07



DGOV02YA-MOO-LF	18	3.00E-04 (301.5)	1.32E-08 (201.0)	1.25E-10	7.92E-08
LAK3BRCB-RCO-LFO	23	3.40E-03 (117.5)	1.27E-08 (203.0)	3.65E-12	8.04E-08
EE-CST-LVL	20	1.00E+00 ( 9.5)	1.26E-08 (204.0)		
1E41YA-V-UUM	19	1.00E-04 (339.5)	1.25E-08 (205.0)	0.00E+00	6.63E-08
DGOV02YA-M-UUM	20	5.00E-04 (251.0)	1.24E-08 (207.5)	2.32E-10	4.58E-08
DGOV01YA-M-UUM	20	5.00E-04 (251.0)	1.24E-08 (207.5)	2.32E-10	4.58E-08
DGOV01CA-F-UUM	20	5.00E-04 (251.0)	1.24E-08 (207.5)	2.32E-10	4.58E-08
DGOV03YA-M-UUM	20	5.00E-04 (251.0)	1.24E-08 (207.5)	2.32E-10	4.58E-08
APQ37X3-RDP-LFO	16	2.00E-02 ( 84.0)	1.21E-08 (210.0)	1.23E-12	1.81E-07
1EB423B-BOD-LF	12	5.00E-04 (251.0)	1.11E-08 (211.5)	5.80E-11	5.71E-08
1EB422B-BCC-LF	12	5.00E-04 (251.0)	1.11E-08 (211.5)	5.80E-11	5.71E-08
RA-9-10H	13	5.50E-01 ( 27.0)	1.08E-08 (213.0)	3.02E-11	3.63E-08
1EB433C-BOD-LF	14	5.00E-04 (251.0)	1.07E-08 (215.5)	3.83E-11	4.22E-08
HCSF015C-VCC-LF	14	5.00E-04 (251.0)	1.07E-08 (215.5)	3.16E-11	4.24E-08
1EB432C-BCC-LF	14	5.00E-04 (251.0)	1.07E-08 (215.5)	3.83E-11	4.22E-08
HCSF04C-VCC-LF	14	5.00E-04 (251.0)	1.07E-08 (215.5)	3.16E-11	4.24E-08
SWVY02CC-FMS-LF	12	5.40E-04 (230.5)	1.04E-08 (218.5)	2.07E-10	4.28E-08
DGHV01CC-FMS-LF	12	5.40E-04 (230.5)	1.04E-08 (218.5)	2.07E-10	4.28E-08
SLCC001A-ROG0105	5	1.10E-03 (200.0)	9.84E-09 (220.5)	2.93E-11	4.16E-08
RA-ATW-11-11-30H	5	1.00E+00 ( 9.5)	9.84E-09 (220.5)		
DGHV01YC-M-UUM	12	5.00E-04 (251.0)	9.59E-09 (224.5)	2.28E-10	4.24E-08
SWVY02CC-F-UUM	12	5.00E-04 (251.0)	9.59E-09 (224.5)	2.28E-10	4.24E-08
CSC02X1B-ROO-LFO	12	5.00E-04 (251.0)	9.59E-09 (224.5)	1.67E-11	1.06E-07
DGHV03YC-M-UUM	12	5.00E-04 (251.0)	9.59E-09 (224.5)	2.28E-10	4.24E-08
DGHV02YC-M-UUM	12	5.00E-04 (251.0)	9.59E-09 (224.5)	2.28E-10	4.24E-08
DGHV01CC-F-UUM	12	5.00E-04 (251.0)	9.59E-09 (224.5)	2.28E-10	4.24E-08
1EB235A-B-UUM	14	1.00E-04 (339.5)	9.58E-09 (228.0)	0.00E+00	5.57E-08
RHRC02BB-P-NDUUM	10	3.00E-03 (125.5)	9.55E-09 (229.0)	1.48E-13	6.13E-08
RHRC003B-P-UUM	16	3.00E-03 (125.5)	9.39E-09 (230.0)	4.53E-12	2.65E-08
1EB235YA-BCO-LF	7	7.20E-05 (363.5)	8.95E-09 (231.0)	1.94E-11	6.67E-08
OPFAIL-SLCOX-5H	2	2.10E-03 (186.0)	8.92E-09 (232.0)		
EE-CSCD300B-PLG	3	7.70E-04 (210.0)	8.72E-09 (233.0)	3.66E-11	3.24E-08
HACTK13CP5-LFCO	4	6.60E-04 (216.5)	8.71E-09 (234.0)	1.12E-10	3.86E-08
NOFLOW-RHR-A1	8	1.00E+00 ( 9.5)	8.63E-09 (235.5)		
RHR301AX-STR	8	1.10E-04 (335.5)	8.63E-09 (235.5)	2.00E-11	3.35E-08
HFO4CSC-QOC-LF	2	6.00E-03 (108.5)	8.38E-09 (237.0)	2.19E-11	4.35E-08
SLCC001A-P-TO001	4	1.00E-03 (204.0)	8.36E-09 (238.0)	8.55E-11	2.95E-08
RA-B-23H	28	4.50E-03 (112.0)	8.20E-09 (239.0)	9.31E-12	3.73E-08
1EB35Y2X-BCO-LF	6	7.20E-05 (363.5)	8.20E-09 (240.0)	5.89E-12	6.64E-08
RHRB01BB-BOD-CC	8	2.50E-03 (161.5)	7.56E-09 (241.0)	0.00E+00	3.82E-08
RA-1-1-10H	10	2.10E-03 (186.0)	7.13E-09 (242.0)	1.86E-12	5.58E-08
CSCF068B-VCC-LF	4	5.00E-04 (251.0)	6.76E-09 (244.0)	3.09E-11	2.02E-08
RHRF48BB-VOD-LF	4	5.00E-04 (251.0)	6.76E-09 (244.0)	3.09E-11	2.02E-08
RHRB01BB-BOD-LF	4	5.00E-04 (251.0)	6.76E-09 (244.0)	3.17E-11	2.64E-08
RA-6-4H	15	5.00E-01 ( 30.0)	6.27E-09 (246.0)		
RA-9-23H	24	4.10E-01 ( 34.0)	6.12E-09 (247.0)	8.64E-12	2.62E-08
15MFS50PERCENT	1	5.00E-01 ( 30.0)	6.09E-09 (248.5)		
RA-3-12-68M	1	1.80E-02 (102.0)	6.09E-09 (248.5)	7.24E-12	1.29E-08
RA-7-1-27H	4	2.10E-03 (186.0)	5.94E-09 (250.0)	0.00E+00	2.45E-08
ZDGO1PSC-ODO-LFO	7	3.00E-04 (301.5)	5.81E-09 (252.5)	4.60E-11	2.52E-08
ZDGO1PK18CA-LFOO	7	3.00E-04 (301.5)	5.81E-09 (252.5)	4.60E-11	2.52E-08
SEVY03AX-A-UUM	7	3.00E-04 (301.5)	5.81E-09 (252.5)	3.84E-11	3.48E-08

C2DGG1F-S-UUM	7	3.00E-04 (301.5)	5.81E-09 (252.5)	3.84E-11	3.49E-08
LAK9BCP3-LFOO	4	2.90E-03 (134.0)	5.74E-09 (255.5)	0.00E+00	3.72E-08
LAK18BCP1-LFOO	4	2.90E-03 (134.0)	5.74E-09 (255.5)	0.00E+00	3.72E-08
SLCF008X-XOC-LF	4	6.60E-04 (216.5)	5.52E-09 (257.0)	4.74E-11	1.89E-08
1EK18ABCP6-LFOO	6	3.00E-04 (301.5)	5.43E-09 (258.5)	3.40E-11	2.36E-08
AP040X2CP7-LFOO	6	3.00E-04 (301.5)	5.43E-09 (258.5)	3.40E-11	2.36E-08
LAK3ARCA-RCD-LFO	3	3.40E-03 (117.5)	5.32E-09 (260.0)	0.00E+00	2.87E-08
DGHV03YC-MCC-LF	8	3.00E-04 (301.5)	5.32E-09 (262.0)	1.08E-10	1.83E-08
DGHV02YC-MCC-LF	8	3.00E-04 (301.5)	5.32E-09 (262.0)	1.08E-10	1.83E-08
DGHV01YC-MCC-LF	8	3.00E-04 (301.5)	5.32E-09 (262.0)	1.08E-10	1.83E-08
CCB00G1P-BCD-LF	3	8.40E-05 (346.5)	4.78E-09 (264.0)	3.59E-12	3.45E-08
LAK9ACP3-LFOO	3	2.90E-03 (134.0)	4.54E-09 (266.0)	0.00E+00	3.16E-08
LAK18ACP1-LFOO	3	2.90E-03 (134.0)	4.54E-09 (266.0)	0.00E+00	3.16E-08
LAK10ACP9-LFOO	3	2.90E-03 (134.0)	4.54E-09 (266.0)	0.00E+00	3.16E-08
LAK93BCP3-LFCC	3	2.90E-03 (134.0)	4.20E-09 (268.0)	0.00E+00	1.56E-08
RWCF004X-V00-LF	4	5.00E-04 (251.0)	4.18E-09 (269.0)	8.71E-12	1.16E-08
SUR-001-A-R	4	1.50E-01 (48.0)	3.97E-09 (270.0)	0.00E+00	5.96E-08
1E36YB-V-UUM	3	1.00E-04 (339.5)	3.80E-09 (271.0)	2.71E-12	2.44E-08
CSCF068B-VCC-CC	3	2.50E-03 (161.5)	3.62E-09 (272.5)	0.00E+00	9.05E-09
RHRF48BB-V00-CC	3	2.50E-03 (161.5)	3.62E-09 (272.5)	0.00E+00	9.05E-09
RA-3-12-2H	1	2.40E-03 (179.0)	3.30E-09 (274.0)	6.45E-12	1.15E-08
LAK93ACP3-LFCC	2	2.90E-03 (134.0)	3.28E-09 (275.0)	0.00E+00	1.35E-08
CCB20G1P-BCD-LF	3	8.40E-05 (346.5)	3.05E-09 (276.0)	1.94E-11	1.63E-08
OPFA1L-VENT-6H	1	2.10E-03 (186.0)	2.89E-09 (277.0)	1.17E-11	7.95E-09
CSCF068A-VCC-CC	2	2.50E-03 (161.5)	2.83E-09 (278.5)	0.00E+00	7.81E-09
RHRF48AA-V00-CC	2	2.50E-03 (161.5)	2.83E-09 (278.5)	0.00E+00	7.81E-09
RA-15-48H	2	9.50E-01 (19.0)	2.79E-09 (280.0)	2.57E-11	1.03E-08
36X2803X-BCD-LF	3	7.20E-05 (363.5)	2.61E-09 (283.5)	1.60E-11	1.52E-08
1EB2Y14X-BCO	3	7.20E-05 (363.5)	2.61E-09 (283.5)	1.60E-11	1.52E-08
DAVB002X-BCD-LF	3	7.20E-05 (363.5)	2.61E-09 (283.5)	1.60E-11	1.52E-08
DAVB001X-BCD-LF	3	7.20E-05 (363.5)	2.61E-09 (283.5)	1.60E-11	1.52E-08
SEVB001X-BCD-LF	3	7.20E-05 (363.5)	2.61E-09 (283.5)	1.60E-11	1.52E-08
1EB36X3X-BCD-LF	3	7.20E-05 (363.5)	2.61E-09 (283.5)	1.60E-11	1.52E-08
OPFA1L-VENT-20M	3	1.00E+00 (9.5)	2.23E-09 (287.0)		
SUR-008-V	5	2.10E-03 (186.0)	1.84E-09 (288.0)	6.71E-12	5.78E-09
C00G01F-S-UUM	7	3.00E-04 (301.5)	1.83E-09 (289.0)	4.48E-12	8.11E-09
1EB1Y13X-BCO	2	7.20E-05 (363.5)	1.61E-09 (290.0)	3.50E-12	5.89E-09
CRD1-REALIGN-OE	5	2.10E-03 (186.0)	1.49E-09 (291.0)	0.00E+00	5.23E-09
NWVY01CA-FMS-LF	3	5.40E-04 (230.5)	1.48E-09 (292.0)	0.00E+00	6.84E-09
1EK18A1BCP6-LFOO	6	3.00E-04 (301.5)	1.45E-09 (293.0)	3.28E-12	5.84E-09
TDRFP-T-OE-27H	3	2.60E-03 (142.5)	1.41E-09 (294.0)	6.51E-13	2.86E-09
NWVY01CA-F-UUM	3	5.00E-04 (251.0)	1.37E-09 (295.0)	0.00E+00	6.34E-09
LAK23ARC-R00-LFO	1	2.00E-02 (84.0)	1.34E-09 (297.0)	1.18E-12	5.24E-09
NOFLOW-LCT-B7	1	1.00E+00 (9.5)	1.34E-09 (297.0)		
LC1F42CB-VCC-LF	1	4.80E-03 (111.0)	1.34E-09 (297.0)	1.18E-12	5.24E-09
RA-5V-1-2H	48	2.10E-03 (186.0)	1.28E-09 (299.0)	5.34E-10	5.11E-09
AP251X2CP4-LFOO	5	3.00E-04 (301.5)	1.23E-09 (300.0)	3.28E-12	4.59E-09
NOFLOW-RHR-B1	1	1.00E+00 (9.5)	1.15E-09 (301.5)		
RHR301BX-STR	1	1.10E-04 (335.5)	1.15E-09 (301.5)	3.79E-12	3.72E-09
1EB36YB-B-UUM	1	1.00E-04 (339.5)	1.13E-09 (303.0)	1.98E-12	3.50E-09
LAK3BRXCP1-LFOO	2	6.60E-04 (216.5)	1.11E-09 (305.0)	0.00E+00	5.80E-09
LAK28BKCP4-LFOO	2	6.60E-04 (216.5)	1.11E-09 (305.0)	0.00E+00	5.80E-09



AP040X4CP*-LFCO	2	6.60E-04 (216.5)	1.11E-09 (305.0)	0.00E+00	5.80E-09
1E4327NYCP2-LFCO	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.90E-12	4.24E-09
22C1AAX-A30-LFO	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.90E-12	4.24E-09
HCSF015C-V-UUM	4	3.00E-04 (301.5)	1.01E-09 (312.0)	3.73E-12	4.53E-09
CSC0300-S-UUM	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.97E-12	3.40E-09
HCSF004C-V-UUM	4	3.00E-04 (301.5)	1.01E-09 (312.0)	3.73E-12	4.53E-09
HCSF001E-V-UUM	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.97E-12	3.40E-09
SWY02AX-A-UUM	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.90E-12	4.24E-09
1E4327NXCP2-LFCO	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.90E-12	4.24E-09
CSC02K18CP5-LFCO	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.90E-12	4.24E-09
CC002SC-000-LFO	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.90E-12	4.24E-09
1E433AA-X-A00-LFO	4	3.00E-04 (301.5)	1.01E-09 (312.0)	2.90E-12	4.24E-09
HC001CB-BCO-LF	1	8.40E-05 (346.5)	9.37E-10 (318.5)	1.84E-12	3.47E-09
CCBC002-BCO-LF	1	8.40E-05 (346.5)	9.37E-10 (318.5)	1.84E-12	3.47E-09
AP037X4CP1-LFCO	1	6.60E-04 (216.5)	8.32E-10 (321.0)	0.00E+00	4.33E-09
LAK3ARCXCP1-LFCO	1	6.60E-04 (216.5)	8.32E-10 (321.0)	0.00E+00	4.33E-09
LAK2BACXCP4-LFCO	1	6.60E-04 (216.5)	8.32E-10 (321.0)	0.00E+00	4.33E-09
PCD2AAX-A00-LFO	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	4.62E-09
HWY01AX-A-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
CSCF008A-V-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	4.62E-09
CSC0300A-S-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
SCSF06AA-V-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRH01AX-R-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	4.62E-09
RHRF88AX-R-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF87AA-V-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF74AA-V-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF65AA-N-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF64AA-V-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF60AA-S-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF55AX-R-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF51AA-N-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF48AA-V-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
RHRF47AA-V-UUM	3	3.00E-04 (301.5)	8.20E-10 (330.5)	0.00E+00	2.53E-09
2431B60X-BCO-LF	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
1EB43C-BCO-LF	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
1EB1315X-BCO	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
SWB001X-BCO-LF	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
1EB1313X-BCO	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
1EB1312X-BCO	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
DHWB002X-BCO-LF	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
DHWB001X-BCO-LF	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
1EB1311X-BCO	1	7.20E-05 (363.5)	8.04E-10 (343.0)	1.75E-12	2.95E-09
RA-1-3-8H	3	2.60E-03 (142.5)	7.72E-10 (348.5)	3.80E-13	1.14E-09
RA-1-3-13H	3	2.60E-03 (142.5)	7.72E-10 (348.5)	3.80E-13	1.14E-09
02	1	9.40E-05 (343.0)	7.72E-10 (350.0)	8.61E-12	3.53E-09
AP059X2CP4-LFCO	3	3.00E-04 (301.5)	7.68E-10 (351.0)	2.51E-12	3.55E-09
LAK70BBB-ROO-LFO	1	2.00E-02 ( 84.0)	5.04E-10 (353.5)	0.00E+00	1.21E-09
LAK70ARA-ROO-LFO	1	2.00E-02 ( 84.0)	5.04E-10 (353.5)	0.00E+00	1.21E-09
LAK2BRCB-ROO-LFO	1	2.00E-02 ( 84.0)	5.04E-10 (353.5)	0.00E+00	1.21E-09
LAK2ARCA-ROO-LFO	1	2.00E-02 ( 84.0)	5.04E-10 (353.5)	0.00E+00	1.21E-09
RACTK5-ROO-LFO	1	2.00E-02 ( 84.0)	4.61E-10 (357.0)	7.48E-13	1.25E-09
RACTK3-ROO-LFO	1	2.00E-02 ( 84.0)	4.61E-10 (357.0)	7.48E-13	1.25E-09

RACK17-ROO-LFO	1	2.00E-02 ( 84.0)	4.61E-10 (357.0)	7.48E-13	1.25E-09
HCS9001X-STR	1	3.80E-05 (378.0)	4.24E-10 (359.0)	7.71E-13	9.47E-10
CSCF068B-V-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
CSC0308-S-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	2.77E-09
SCSF068B-V-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRH018X-H-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	2.77E-09
RHRF888X-R-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF878B-V-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF748B-V-UUM	1	3.00E-04 (301.5)	3.73E-10 (366.5)	0.00E+00	1.33E-09
RHRF658B-N-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF648B-V-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF608B-S-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF558X-R-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF518B-N-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF488B-V-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
RHRF478B-V-UUM	1	3.00E-04 (301.5)	3.78E-10 (366.5)	0.00E+00	1.33E-09
ZWR168E	1	2.50E-02 ( 67.0)	3.60E-10 (374.5)	1.32E-13	1.11E-09
EE-MDC-DJ-B-RU	1	5.00E-01 ( 30.0)	3.60E-10 (374.5)		
LCSC002A-RUM-1	1	3.30E-04 (270.5)	3.17E-10 (376.5)	0.00E+00	6.87E-10
RHRC003B-RUM-1	1	3.30E-04 (270.5)	3.17E-10 (376.5)	0.00E+00	6.87E-10
HCSF023C-VOC-CS	1	2.40E-04 (332.5)	2.33E-10 (378.5)	1.01E-12	1.34E-09
HCSF001C-VOC-CS	1	2.40E-04 (332.5)	2.33E-10 (378.5)	1.01E-12	1.34E-09

INTERNAL EVENTS TOTAL PLANT RUN  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%
1EB236B-BCO-LF	176	7.20E-05 (363.5)	2.89E-02 ( 1.0)	9.53E-07	2.41E-01
RPS	56	1.00E-05 (379.0)	1.19E-02 ( 2.0)	1.06E-03	5.76E-02
DGCOOL-PMS-CM	27	2.50E-03 (161.5)	7.05E-03 ( 3.0)	1.28E-03	2.00E-02
1EB36YB-9CO-LF	54	7.20E-05 (363.5)	2.17E-03 ( 4.0)	1.40E-04	9.45E-03
1E42YB-V-UUM	27	1.00E-04 (339.5)	1.46E-03 ( 5.0)	0.00E+00	1.44E-02
1EB235A-BCO-LF	38	7.20E-05 (363.5)	1.13E-03 ( 6.0)	5.96E-07	9.41E-03
1EB236B-B-UUM	23	1.00E-04 (339.5)	9.97E-04 ( 7.0)	0.00E+00	7.98E-03
1EB21YX-BCO-LF	9	7.20E-05 (363.5)	8.11E-04 ( 8.0)	3.46E-06	6.54E-03
1EB36Y1X-BCO-LF	7	7.20E-05 (363.5)	7.89E-04 ( 10.5)	2.64E-06	6.53E-03
1EB21YX-BLO-LF	7	7.20E-05 (363.5)	7.89E-04 ( 10.5)	2.64E-06	6.53E-03
1EB36YB-BCO-LF	7	7.20E-05 (363.5)	7.89E-04 ( 10.5)	2.64E-06	6.53E-03
1EB2Y22X-BCO	7	7.20E-05 (363.5)	7.89E-04 ( 10.5)	2.64E-06	6.53E-03
1EB1Y22X-BCO	6	7.20E-05 (363.5)	7.74E-04 ( 13.0)	5.96E-07	6.52E-03
BATT-FTDP	1	3.60E-04 (269.0)	7.68E-04 ( 14.0)	9.08E-05	2.26E-03
1EB16212-BCO	5	8.40E-05 (346.5)	7.42E-04 ( 15.0)	2.64E-06	5.62E-03
1EB16211-BCO	4	8.40E-05 (346.5)	7.29E-04 ( 16.0)	5.96E-07	5.61E-03
CSCD300A-FLG-LF	42	1.20E-03 (195.5)	2.40E-04 ( 17.0)	2.14E-06	1.76E-03
DGO-GEN-LF-FTS	807	2.50E-02 ( 67.0)	2.00E-04 ( 18.0)	8.68E-06	1.11E-03
1EB235XA-BCO-LF	8	7.20E-05 (363.5)	1.89E-04 ( 19.0)	4.74E-06	1.15E-03
SUR-005-V	68	2.10E-03 (186.0)	1.86E-04 ( 20.0)	2.47E-05	5.37E-04
RPO40X2-ROO-LFO	604	2.00E-02 ( 84.0)	1.84E-04 ( 21.0)	1.86E-05	7.80E-04
C0G601F-PLG-LF	51	5.80E-04 (224.0)	1.63E-04 ( 22.0)	6.15E-06	1.22E-03
RA-1-1-27H	201	2.10E-03 (186.0)	1.49E-04 ( 23.0)	1.25E-07	1.02E-03
DGCOOL-BETA	27	1.10E-01 ( 49.5)	1.43E-04 ( 24.0)	4.01E-06	6.63E-04
C0G001P-PMS-LF	60	1.10E-07 (200.0)	1.30E-04 ( 25.0)	5.83E-06	1.28E-03
EE-C2G01F-PLG	67	7.20E-04 (210.0)	1.25E-04 ( 26.0)	1.89E-05	4.78E-04
1E41YA-V-UUM	19	1.00E-04 (339.5)	1.25E-04 ( 27.0)	3.00E+00	8.36E-04
1EB235YA-BCO-LF	7	7.20E-05 (363.5)	1.24E-04 ( 28.0)	2.04E-06	9.24E-04
1EB35Y2X-BCO-LF	6	7.20E-05 (363.5)	1.14E-04 ( 29.0)	5.69E-07	9.04E-04
DG2B-GEN-LF-FTS	561	2.50E-02 ( 67.0)	1.07E-04 ( 30.0)	6.59E-06	3.93E-04
LCSC002A-P-UUM	67	3.00E-03 (125.5)	1.02E-04 ( 31.0)	3.29E-06	7.28E-04
U2D001F-PLG-LF	41	5.80E-04 (224.0)	9.81E-05 ( 32.0)	1.25E-05	3.47E-04
1EB235A-B-UUM	14	1.00E-04 (339.5)	9.59E-05 ( 33.0)	0.00E+00	6.20E-04
RA-8-27H	339	3.20E-03 (119.5)	9.36E-05 ( 34.0)	2.34E-07	7.83E-04
RA-2-11-27H	66	1.60E-03 (193.0)	9.27E-05 ( 35.0)	4.44E-06	5.78E-04
RHR01AX-HTX-LFB	59	6.20E-03 (105.5)	9.04E-05 ( 36.0)	1.55E-06	7.13E-04
RHR02AA-P-UUM	43	3.00E-03 (125.5)	9.04E-05 ( 37.0)	1.57E-06	7.02E-04
EE-C0G01F-PLG	53	7.20E-04 (210.0)	8.96E-05 ( 38.0)	2.61E-06	6.02E-04
C2D001P-FMS-LF	59	1.10E-03 (200.0)	8.84E-05 ( 39.0)	1.23E-05	3.51E-04
RHR02AA-PMS-LF	23	1.10E-03 (200.0)	8.82E-05 ( 40.0)	1.09E-06	6.87E-04
DGO-GEN-CC-FTS	114	3.70E-03 (114.0)	8.81E-05 ( 41.0)	2.64E-06	5.58E-04
RHR01AA-B00-LF	18	5.00E-04 (251.0)	8.70E-05 ( 43.0)	1.08E-06	5.68E-04
CSCF068A-VCC-LF	18	5.00E-04 (251.0)	8.70E-05 ( 43.0)	1.08E-06	5.68E-04
RHRF48AA-V00-LF	18	5.00E-04 (251.0)	8.70E-05 ( 43.0)	1.08E-06	5.68E-04
1EB233A-BCC-LF	34	5.00E-04 (251.0)	8.63E-05 ( 45.0)	2.26E-06	6.82E-04

DG0-G-UUM	114	6.00E-03 (108.5)	8.54E-05 ( 46.0)	2.70E-06	6.24E-04
RA-8-10H	1179	2.00E-02 ( 84.0)	8.50E-05 ( 47.0)	8.41E-07	6.69E-04
RA-3-12-80M	4	3.50E-03 (116.0)	8.36E-05 ( 48.0)	1.11E-06	2.46E-04
CRD-REALIGN-OE	1	2.10E-03 (186.0)	8.23E-05 ( 49.0)	1.10E-06	2.43E-04
DG2V02FX-KLN-LFB	33	5.80E-04 (224.0)	8.13E-05 ( 50.0)	6.41E-06	3.27E-04
1E4327NY-800-LFD	360	2.00E-02 ( 84.0)	8.12E-05 ( 51.0)	5.31E-06	3.02E-04
C00G01P-P-UUM	38	3.00E-03 (125.5)	8.04E-05 ( 52.0)	1.18E-06	6.38E-04
C00G01P-PMS-CC	36	2.50E-03 (161.5)	8.03E-05 ( 53.0)	1.17E-06	6.36E-04
1E4327NK-R00-LFD	358	2.00E-02 ( 84.0)	7.98E-05 ( 54.0)	5.17E-06	2.97E-04
RHR301AX-STR	8	1.10E-04 (335.5)	7.85E-05 ( 55.0)	9.09E-07	5.33E-04
1-B425B-BCC-LF	29	5.00E-04 (251.0)	7.78E-05 ( 56.5)	6.48E-06	3.62E-04
1E8234B-BCC-LF	29	5.00E-04 (251.0)	7.78E-05 ( 56.5)	5.48E-06	3.62E-04
DG0V01FX-KLN-LFB	35	5.80E-04 (224.0)	7.76E-05 ( 56.0)	1.69E-06	5.52E-04
AP039X2-R00-LFD	342	2.00E-02 ( 84.0)	7.66E-05 ( 59.0)	6.97E-06	3.51E-04
EE-CSCD300A-PLG	7	7.20E-04 (210.0)	6.70E-05 ( 60.0)	0.00E+00	5.87E-04
PL05P	21	2.10E-04 (334.0)	6.56E-05 ( 61.0)	1.57E-06	3.77E-04
RA-8-BH	468	2.70E-02 ( 84.0)	6.17E-05 ( 62.0)	4.28E-06	2.66E-04
DG2V10YB-W00-LF	17	3.00E-04 (301.5)	5.10E-05 ( 65.0)	4.30E-06	2.58E-04
DG2V11YB-WCC-LF	17	3.00E-04 (301.5)	6.10E-05 ( 64.0)	4.30E-06	2.58E-04
DG2V09YB-WCC-LF	17	3.00E-04 (301.5)	6.10E-05 ( 64.0)	4.30E-06	2.58E-04
EE-CSCD300-PLG	34	7.20E-04 (210.0)	6.00E-05 ( 66.0)	3.88E-06	2.22E-04
RHR02AA-P-MUUM	26	3.00E-03 (125.5)	5.77E-05 ( 67.0)	3.59E-08	5.41E-04
DG2B-GEN-CC-FTS	75	3.70E-03 (114.0)	5.75E-05 ( 68.0)	2.26E-06	2.33E-04
NWVY01CA-FMS-CC	22	2.50E-03 (161.5)	5.74E-05 ( 69.5)	2.57E-08	5.39E-04
RHR801AA-B00-LF	2	2.50E-03 (161.5)	5.74E-05 ( 69.5)	2.57E-08	5.39E-04
CCB0061P-BCC-LF	2	8.40E-05 (346.5)	5.69E-05 ( 71.0)	2.84E-07	4.52E-04
RA-8-1H	1	1.50E-01 ( 42.0)	5.68E-05 ( 72.0)	2.21E-06	2.66E-04
RA-MSLDV-1-2H	100	2.10E-03 (186.0)	5.30E-05 ( 73.0)	2.58E-08	4.31E-04
LPCI-PMS-OM	8	2.50E-03 (161.5)	5.22E-05 ( 74.0)	2.17E-06	2.13E-04
CSCD300-PLG-LF	24	5.80E-04 (224.0)	5.16E-05 ( 75.0)	2.87E-06	2.01E-04
DG2B-G-UUM	59	6.00E-03 (108.5)	5.14E-05 ( 76.0)	2.17E-06	1.94E-04
SEVY03CB-FMS-CC	35	2.50E-03 (161.5)	5.10E-05 ( 77.0)	3.18E-06	2.82E-04
1E8412A-BCC-LF	28	5.00E-04 (251.0)	5.03E-05 ( 78.5)	8.55E-07	3.98E-04
1E8413A-B00-LF	28	5.00E-04 (251.0)	5.03E-05 ( 78.5)	8.55E-07	3.98E-04
C2D0G01P-P-UUM	34	3.00E-03 (125.5)	5.02E-05 ( 80.0)	3.10E-06	2.74E-04
C2D0G01P-PMS-CC	33	2.50E-03 (161.5)	5.02E-05 ( 81.0)	3.10E-06	2.74E-04
NWVY01AX-ACK-LFI	8	8.40E-04 (206.0)	4.98E-05 ( 82.0)	4.17E-09	4.74E-04
DG0V01CA-RUM-Q	30	1.40E-03 (194.0)	4.93E-05 ( 83.0)	8.27E-07	4.40E-04
1E8425B-BCC-CC	30	2.50E-03 (161.5)	4.88E-05 ( 85.0)	2.70E-06	2.82E-04
1E8234B-BCC-CC	30	2.50E-03 (161.5)	4.88E-05 ( 85.0)	2.70E-06	2.82E-04
DG2V03CB-FMS-CC	30	2.50E-03 (161.5)	4.88E-05 ( 85.0)	2.70E-06	2.82E-04
DG0V01FX-KLN-LFB	21	5.80E-04 (224.0)	4.87E-05 ( 87.0)	1.48E-06	1.99E-04
SEVY03AX-ACK-LFI	20	8.40E-04 (206.0)	4.80E-05 ( 88.0)	2.97E-06	2.45E-04
SEVY03CB-FMS-LF	18	5.40E-04 (230.5)	4.74E-05 ( 89.0)	2.97E-06	2.31E-04
DG-FTS-BETA	14	1.20E-02 (103.0)	4.73E-05 ( 90.0)	2.51E-06	1.96E-04
DG0-GEN-LF-FTR	546	1.90E-02 (100.0)	4.70E-05 ( 91.0)	1.38E-06	2.39E-04
DG01PK18-R00-LFD	17	5.00E-04 (251.0)	4.70E-05 ( 92.5)	2.77E-06	2.30E-04
SEVY03CB-F-UUM	17	5.00E-04 (251.0)	4.70E-05 ( 92.5)	2.77E-06	2.31E-04
DG2V10YB-M-UUM	16	5.00E-04 (251.0)	4.57E-05 ( 95.5)	2.39E-06	2.31E-04
DG2V09YB-M-UUM	16	5.00E-04 (251.0)	4.57E-05 ( 95.5)	2.39E-06	2.31E-04
DG2V03CB-F-UUM	16	5.00E-04 (251.0)	4.57E-05 ( 95.5)	2.39E-06	2.31E-04
DG2V11YB-M-UUM	16	5.00E-04 (251.0)	4.57E-05 ( 95.5)	2.39E-06	2.31E-04

DG2V03CB-FMS-LF	16	5.40E-04 (230.5)	4.57E-05 (98.0)	2.39E-06	2.31E-04
1EK1BARC-ROO-LFO	16	5.80E-04 (224.0)	4.57E-05 (99.0)	2.39E-06	2.30E-04
DGOV03YA-MCC-LF	13	3.00E-04 (301.5)	4.41E-05 (101.0)	7.05E-07	3.35E-04
DGOV02YA-MOO-LF	18	3.00E-04 (301.5)	4.41E-05 (101.0)	7.05E-07	3.35E-04
DGOV01YA-MCC-LF	18	3.00E-04 (301.5)	4.41E-05 (101.0)	7.05E-07	3.35E-04
Q1	111	8.20E-03 (104.0)	4.20E-05 (103.0)	2.08E-06	1.90E-04
1EB233A-BCC-AS	31	2.50E-03 (161.5)	3.83E-05 (104.0)	9.97E-07	1.41E-04
1E36YB-V-UUM	3	1.00E-04 (339.5)	3.90E-05 (105.0)	5.90E-08	2.46E-04
1EB2Y14X-BCO	3	7.20E-05 (363.5)	3.63E-05 (108.5)	1.65E-06	1.58E-04
DAV807-BCC-LF	3	7.20E-05 (363.5)	3.63E-05 (108.5)	1.65E-06	1.58E-04
DAV86-BCO-LF	3	7.20E-05 (363.5)	3.63E-05 (108.5)	1.65E-06	1.58E-04
36X2BD-BCO-LF	3	7.20E-05 (363.5)	3.63E-05 (108.5)	1.65E-06	1.58E-04
SEVB001X-ECO-LF	3	7.20E-05 (363.5)	3.63E-05 (108.5)	1.65E-06	1.58E-04
1EB36K3X-BCO-LF	3	7.20E-05 (363.5)	3.63E-05 (108.5)	1.65E-06	1.58E-04
CC92D61P-BCO-LF	3	8.40E-05 (346.5)	3.63E-05 (112.0)	1.65E-06	1.58E-04
DAV-MOD-CC	19	2.50E-03 (161.5)	3.51E-05 (113.0)	2.23E-06	1.97E-04
DG21-GEN-F-FI	445	1.90E-02 (160.0)	3.36E-05 (114.0)	1.59E-06	1.33E-04
DG2B-GEN-LF-FTR	361	1.90E-02 (100.0)	2.79E-05 (115.0)	1.05E-06	9.37E-05
HCSC001C-PMS-LF	25	1.10E-03 (200.0)	2.74E-05 (116.0)	1.84E-06	9.08E-05
SCD300B-PLG-LF	22	1.20E-03 (195.5)	2.70E-05 (117.0)	1.80E-06	9.90E-05
1EB413A-BOO-CC	28	2.50E-03 (161.5)	2.65E-05 (118.5)	7.87E-07	9.63E-05
1EB412A-BCC-CC	28	2.50E-03 (161.5)	2.65E-05 (118.5)	7.87E-07	9.63E-05
DGOV01CA-FMS-CC	27	2.50E-03 (161.5)	2.63E-05 (120.5)	5.78E-07	9.58E-05
DGV-MOD-COM-CC	27	2.50E-03 (161.5)	2.63E-05 (120.5)	5.78E-07	9.58E-05
DG0-LEN-CC-FTR	68	2.80E-03 (139.0)	2.63E-05 (122.0)	5.11E-07	1.46E-04
CSCC002-PPS-LF	29	1.10E-03 (200.0)	2.53E-05 (123.0)	1.21E-06	9.25E-05
DGOV02YA-M-UUM	20	5.00E-04 (221.0)	2.47E-05 (125.5)	5.01E-07	8.59E-05
DGOV01YA-M-UUM	20	5.00E-04 (221.0)	2.47E-05 (125.5)	5.01E-07	8.59E-05
DGOV01CA-F-UUM	20	5.00E-04 (251.0)	2.47E-05 (125.5)	5.01E-07	8.59E-05
DGOV03YA-M-UUM	20	5.00E-04 (251.0)	2.47E-05 (125.5)	5.01E-07	8.59E-05
DGOV01CA-FMS-LF	20	5.40E-04 (230.5)	2.47E-05 (128.0)	5.01E-07	8.59E-05
OPFAIL-VENT-2H	78	2.10E-03 (186.0)	2.28E-05 (129.0)	1.60E-06	1.67E-04
DGX-GEN-CY-TTS	14	2.50E-02 (67.0)	2.24E-05 (130.0)	1.35E-06	8.33E-05
1EB1Y13X-BCO	2	7.20E-05 (363.5)	2.23E-05 (131.0)	2.77E-07	8.07E-05
1EB423B-BOO-LF	12	5.00E-04 (251.0)	2.21E-05 (132.5)	1.21E-06	1.26E-04
1EB422B-BCC-LF	12	5.00E-04 (251.0)	2.21E-05 (132.5)	1.21E-06	1.26E-04
SWVY02CC-FMS-CC	26	2.50E-03 (161.5)	2.17E-05 (134.0)	6.82E-07	8.81E-05
CSCC002-P-UUM	25	3.00E-03 (125.5)	2.14E-05 (135.0)	6.23E-07	8.72E-05
1EB433C-BOO-LF	14	5.00E-04 (251.0)	2.14E-05 (137.5)	7.31E-07	7.87E-05
HCSF015C-VCC-LF	14	5.00E-04 (251.0)	2.14E-05 (137.5)	7.32E-07	7.88E-05
1EB432C-BCC-LF	14	5.00E-04 (251.0)	2.14E-05 (137.5)	7.31E-07	7.87E-05
HCSF004C-VCC-LF	14	5.00E-04 (251.0)	2.14E-05 (137.5)	7.32E-07	7.88E-05
CSCC002-PMS-CC	21	2.50E-03 (161.5)	2.08E-05 (140.0)	5.49E-07	8.60E-05
1EB432E-BCC-CC	16	2.50E-03 (161.5)	2.00E-05 (143.0)	5.18E-07	8.23E-05
1EB433C-BOO-CC	16	2.50E-03 (161.5)	2.00E-05 (143.0)	5.18E-07	8.23E-05
DWV-MOD-COM-CC	16	2.50E-03 (161.5)	2.00E-05 (143.0)	5.18E-07	8.23E-05
HCSC001C-PMS-CS	16	2.50E-03 (161.5)	2.00E-05 (143.0)	5.18E-07	8.23E-05
DGHV01CC-FMS-CC	16	2.50E-03 (161.5)	2.00E-05 (143.0)	5.18E-07	8.23E-05
HCSC001C-P-UUM	16	3.00E-03 (125.5)	2.00E-05 (148.0)	5.17E-07	8.26E-05
2DG01PSC-OOO-LFO	7	3.00E-04 (301.5)	1.93E-05 (148.5)	1.17E-06	1.09E-04
2DG01PK18CA-LFOO	7	3.00E-04 (301.5)	1.93E-05 (148.5)	1.17E-06	1.09E-04
SEY03AX-A-UUM	7	3.00E-04 (301.5)	1.93E-05 (148.5)	1.17E-06	1.09E-04



SLCC001A-P-T0001	4	1.00E-03 (204.0)	8.35E-06 (202.0)	1.03E-07	3.32E-05
Q2	1	9.40E-05 (343.0)	8.21E-06 (203.0)	6.64E-07	3.08E-05
SY-REGP-RCIC001X	6	2.50E-03 (161.5)	8.00E-06 (204.0)	6.13E-07	3.37E-05
1E6423B-B00-CC	11	2.50E-03 (161.5)	6.84E-06 (205.5)	1.57E-07	2.68E-05
1E6422B-B00-CC	11	2.50E-03 (161.5)	6.84E-06 (205.5)	1.57E-07	2.68E-05
BATT-BETA	1	4.00E-02 ( 57.0)	6.64E-06 (207.0)	1.51E-07	2.60E-05
OPFA1L-SLCOX-56M	8	2.10E-03 (186.0)	6.34E-06 (208.0)	9.06E-08	3.97E-05
C0D001F-S-UUM	7	3.00E-04 (301.5)	6.09E-06 (209.0)	9.57E-08	2.54E-05
SUR-021-R	154	8.50E-02 ( 55.5)	4.83E-06 (210.0)	0.00E+00	1.19E-05
1EK18A18CP6-LFOO	6	3.00E-04 (301.5)	4.83E-06 (211.0)	8.27E-08	2.08E-05
OPFA1L-SLCOX-5H	2	2.10E-03 (186.0)	4.24E-06 (212.0)		
AP251X2CP4-LFOO	5	3.00E-04 (301.5)	4.09E-06 (213.0)	8.27E-08	1.72E-05
LAK38RCB-R00-LFO	23	3.40E-03 (117.5)	3.72E-06 (214.0)	1.52E-08	1.72E-05
RA-1-1-10H	10	2.10E-03 (186.0)	3.39E-06 (215.0)	2.65E-09	4.31E-05
CSC02X18CP5-LFOO	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
1E4327NYCP2-LFOO	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
22C1AAX-A00-LFO	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
HCSF015C-V-UUM	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
CSCD300-S-UUM	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.38E-08	1.60E-05
HCSF004C-V-UUM	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
HCSF001C-V-UUM	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
SWVY02AX-A-UUM	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.38E-08	1.60E-05
1E4327NXP2-LFOO	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
CC002SC-000-LFO	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
1E433AAX-A00-LFO	4	3.00E-04 (301.5)	3.35E-06 (221.0)	7.37E-08	1.60E-05
RHRC028B-P-NOLJH	10	3.00E-03 (125.5)	3.17E-06 (227.0)	2.20E-10	2.30E-05
RHRC003B-P-UUM	16	3.00E-03 (125.5)	3.12E-06 (228.0)	6.23E-09	1.54E-05
LAK98RCB-R00-LFO	40	2.00E-02 ( 84.0)	3.11E-06 (229.5)	1.24E-08	1.83E-05
LAK18BRB-R00-LFO	40	2.00E-02 ( 84.0)	3.11E-06 (229.5)	1.24E-08	1.83E-05
D0VB202X-BCO-LF	67	2.00E-02 ( 84.0)	3.03E-06 (232.5)	1.20E-08	1.61E-05
D0VB201X-BCO-LF	67	2.00E-02 ( 84.0)	3.03E-06 (232.5)	1.20E-08	1.61E-05
D0VB102X-BCO-LF	67	2.00E-02 ( 84.0)	3.03E-06 (232.5)	1.20E-08	1.61E-05
D0VB101X-BCO-LF	67	2.00E-02 ( 84.0)	3.03E-06 (232.5)	1.20E-08	1.61E-05
RHRB018B-B00-CC	8	2.50E-03 (161.5)	3.02E-06 (235.0)	0.00E+00	2.19E-05
RA-7-1-27H	4	2.10E-03 (186.0)	2.82E-06 (236.0)	0.00E+00	1.90E-05
PC02AAAX-A00-LFO	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
NWVY01AX-A-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF60AA-S-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
CSCF008A-V-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
CSCD300A-S-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
SCSF06AA-V-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.06E+00	1.31E-05
RHRH01AX-H-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF88AX-R-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF74AA-V-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF65AA-N-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF64AA-V-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF55AX-R-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF51AA-N-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF48AA-V-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF47AA-V-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
RHRF87AA-V-UUM	3	3.00E-04 (301.5)	2.73E-06 (244.5)	0.00E+00	1.31E-05
NWVY01CA-F-UUM	3	5.00E-04 (251.0)	2.73E-06 (253.0)	0.00E+00	1.31E-05

NWVY01CA-FMS-LF	3	5.40E-04 (230.5)	2.73E-06 (254.0)	0.00E+00	1.31E-05
LAK10RCA-R00-LFO	38	2.00E-02 ( 84.0)	2.69E-06 (255.0)	1.55E-08	1.47E-05
LAK23BRC-R00-LFO	46	2.00E-02 ( 84.0)	2.65E-06 (256.0)	1.25E-08	1.79E-05
AP039K2CP4-LFOO	3	3.00E-04 (301.5)	2.56E-06 (257.0)	6.81E-08	1.50E-05
SUR-002-L	315	1.60E-01 ( 46.0)	2.54E-06 (258.0)	0.00E+00	1.04E-05
LPCI-MOV-BETA	8	3.00E-02 ( 62.5)	2.28E-06 (259.0)	1.91E-08	9.08E-06
LAK18ARA-R00-LFO	27	2.00E-02 ( 84.0)	2.25E-06 (260.0)	3.24E-09	1.43E-05
LAK14BRC-R00-LFO	24	2.00E-02 ( 84.0)	2.18E-06 (261.0)	6.09E-09	1.14E-05
SUR-007-V	4	1.70E-02 ( 53.5)	2.14E-06 (262.0)	2.77E-08	8.35E-06
LAK2ARLA-R00-LFO	25	2.00E-02 ( 84.0)	2.12E-06 (263.0)	3.24E-09	1.54E-05
EE-WBP-PSM-BC-R	78	3.30E-01 ( 39.0)	2.05E-06 (264.0)	0.00E+00	1.42E-05
LAK9BCP3-LFOO	4	2.90E-03 (134.0)	1.97E-06 (265.5)	0.00E+00	1.42E-05
LAK18BCP1-LFOO	4	2.90E-03 (134.0)	1.97E-06 (265.5)	0.00E+00	1.42E-05
HACTK9-R00-LFO	67	2.00E-02 ( 84.0)	1.94E-06 (267.0)	2.15E-08	6.48E-06
EE-WDC-IAS-CB-R	26	3.30E-01 ( 39.0)	1.89E-06 (268.5)		
EE-WDC-IAS-AB-R	26	3.30E-01 ( 39.0)	1.88E-06 (268.5)		
RA-8-23H	28	4.50E-03 (112.0)	1.81E-06 (270.0)	1.49E-08	8.24E-06
HACTK3-R00-LFO	59	2.00E-02 ( 84.0)	1.80E-06 (271.0)	1.94E-08	5.99E-06
LAK3BRCXCP1-LFOO	67	2.00E-02 ( 84.0)	1.67E-06 (273.0)	0.00E+00	1.01E-05
LAK28XCP4-LFOO	2	6.60E-04 (216.5)	1.67E-06 (273.0)	0.00E+00	1.01E-05
AP040X4CP1-LFOO	2	6.60E-04 (216.5)	1.67E-06 (273.0)	0.00E+00	1.01E-05
LAK25ARC-R00-LFO	22	2.00E-02 ( 84.0)	1.63E-06 (275.0)	3.62E-09	1.25E-05
LAK9ACP3-LFOO	3	2.90E-03 (134.0)	1.56E-06 (277.0)	0.00E+00	1.11E-05
LAX18ACP1-LFOO	3	2.90E-03 (134.0)	1.56E-06 (277.0)	0.00E+00	1.11E-05
LAK10ACP9-LFOO	3	2.90E-03 (134.0)	1.56E-06 (277.0)	0.00E+00	1.11E-05
LAK3ARCA-R00-LFO	3	3.40E-03 (117.5)	1.56E-06 (279.0)	0.00E+00	1.11E-05
CSCF068B-VCC-CC	3	2.50E-03 (161.5)	1.44E-06 (280.5)	0.30E+00	8.64E-06
RHRF48BB-V00-CC	3	2.50E-03 (161.5)	1.44E-06 (280.5)	0.00E+00	8.64E-06
LAK93BCP3-LFCC	3	2.90E-03 (134.0)	1.44E-06 (282.0)	0.00E+00	8.62E-06
HFO-CSC-Q0C-LF	2	6.00E-03 (108.5)	1.39E-06 (283.0)	5.44E-09	7.65E-06
DPFALL-VENT-6R	1	2.10E-03 (186.0)	1.37E-06 (284.0)	1.76E-08	5.37E-06
RA-3-12-2H	1	2.40E-03 (179.0)	1.37E-06 (285.0)	1.75E-08	5.36E-06
LAK14ARC-R00-LFO	9	2.00E-02 ( 84.0)	1.31E-06 (286.0)	8.47E-10	8.13E-06
CSCF068B-V-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
CSC0300B-S-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
CSCF068B-V-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHR018X-R-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF88B-R-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF878B-V-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF748B-V-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF658B-N-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF648B-V-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF608B-S-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF558B-R-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF518B-N-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF488B-V-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
RHRF478B-V-UUM	1	3.00E-04 (301.5)	1.26E-06 (293.5)	0.00E+00	7.57E-06
AP037X4CP1-LFCC	1	6.60E-04 (216.5)	1.26E-06 (302.0)	0.00E+00	7.57E-06
LAK3ARCACP1-LFCC	1	6.60E-04 (216.5)	1.26E-06 (302.0)	0.00E+00	7.57E-06
LAK28XCP4-LFCC	1	6.60E-04 (216.5)	1.26E-06 (302.0)	0.00E+00	7.57E-06
CSCF068A-VCC-CC	2	2.50E-03 (161.5)	1.13E-06 (304.5)	0.00E+00	7.47E-06
RHRF48AA-V00-CC	2	2.50E-03 (161.5)	1.13E-06 (304.5)	0.00E+00	7.47E-06



LAK93ACP3-LFCC	2	2.90E-03 (134.0)	1.13E-06 (306.0)	0.00E+00	7.45E-06
RA-8-80M	1	2.00E-01 ( 43.0)	1.11E-06 (307.0)	1.83E-08	3.51E-06
LPCI-BETA	8	1.10E-01 ( 49.5)	1.06E-06 (308.0)	9.11E-09	4.24E-06
HC5F0C2C-VOC-CS	1	2.40E-04 (332.5)	9.72E-07 (309.5)	2.06E-08	7.20E-06
HC5F001C-VOC-CS	1	2.40E-04 (332.5)	9.72E-07 (309.5)	2.06E-08	7.20E-06
LCSC002A-RUM-1	1	3.30E-04 (270.5)	9.60E-07 (311.5)	0.00E+00	3.44E-06
RHRC003B-RUM-1	1	3.30E-04 (270.5)	9.60E-07 (311.5)	0.00E+00	3.44E-06
OPFAILSCDS-DE-BM	11	3.40E-01 ( 37.0)	9.22E-07 (313.0)	1.18E-08	4.35E-06
SUR-008-V	5	2.10E-03 (186.0)	8.74E-07 (314.0)	1.88E-08	3.04E-06
SUR-006-V	15	8.70E-02 ( 53.5)	8.66E-07 (315.0)	1.70E-08	2.48E-06
CRD1-REALIGN-DE	5	2.10E-03 (186.0)	7.06E-07 (316.0)	0.00E+00	4.08E-06
RA-5V-1-2H	48	2.10E-03 (186.0)	6.10E-07 (317.0)	-2.26E-07	4.03E-06
AP037X3-ROO-LFO	16	2.00E-02 ( 84.0)	5.92E-07 (318.0)	9.11E-10	3.09E-06
TDRFP-T-DE-27H	3	2.60E-03 (142.5)	5.42E-07 (319.0)	1.15E-09	1.41E-06
CONT-LEAK	932	7.50E-01 ( 24.0)	5.39E-07 (320.0)	-8.22E-06	0.00E+00
TSCDS50PERCENT	3	5.00E-01 ( 30.0)	4.68E-07 (321.0)		
RA-15-8H	7	4.50E-01 ( 33.0)	4.37E-07 (322.0)	1.05E-08	1.82E-06
SUR-023-R	10	8.50E-02 ( 55.5)	3.93E-07 (323.0)	0.00E+00	1.20E-06
RA-9-1H	468	9.30E-01 ( 21.0)	3.88E-07 (324.0)	1.89E-09	2.73E-06
RA-9-8H	394	6.00E-01 ( 26.0)	3.84E-07 (325.0)	2.64E-09	3.06E-06
SAK6BRCK-RCD-LFO	6	3.90E-02 ( 59.5)	3.51E-07 (327.5)	1.31E-09	1.16E-06
SAK6ARCK-RCD-LFO	6	3.90E-02 ( 59.5)	3.51E-07 (327.5)	1.31E-09	1.16E-06
SAK2BRCK-RCD-LFO	6	3.90E-02 ( 59.5)	3.51E-07 (327.5)	1.31E-09	1.16E-06
SAK2ARCK-RCD-LFO	6	3.90E-02 ( 59.5)	3.51E-07 (327.5)	1.31E-09	1.16E-06
RA-3-12-68M	1	1.80E-02 (102.0)	3.32E-07 (330.0)	2.08E-09	1.09E-06
RA-1-3-8H	3	2.60E-03 (142.5)	2.96E-07 (331.5)	1.16E-09	8.98E-07
RA-1-3-13H	3	2.60E-03 (142.5)	2.96E-07 (331.5)	1.16E-09	8.98E-07
LC1F42CB-VCC-LF	1	4.80E-03 (111.0)	2.78E-07 (333.0)	2.00E-09	1.43E-06
SUR-024-R	49	9.30E-02 ( 51.5)	2.69E-07 (334.0)	0.00E+00	5.23E-07
RA-9-2H	1162	8.70E-01 ( 23.0)	2.56E-07 (335.0)	3.73E-10	1.30E-06
RA-8-48M	55	3.00E-01 ( 41.0)	2.42E-07 (336.0)	4.04E-09	1.13E-06
RA-9-27H	146	4.00E-01 ( 35.0)	2.33E-07 (337.0)	1.07E-11	1.42E-06
SUR-022-R	10	9.30E-02 ( 51.5)	1.73E-07 (338.0)	0.00E+00	3.95E-07
SUR-001-L	54	1.90E-01 ( 44.0)	1.01E-07 (339.0)	0.00E+00	5.09E-07
SUR-002-A-L	10	1.60E-01 ( 46.0)	7.83E-08 (340.0)	0.00E+00	3.37E-07
LAK23BRC-ROO-LFO	1	2.00E-02 ( 84.0)	6.56E-08 (341.0)	3.41E-10	4.01E-07
OPFAIL-REOPN-20M	16	3.50E-01 ( 36.0)	6.40E-08 (342.0)	1.18E-09	3.16E-07
SUR-001-A-V	42	6.10E-01 ( 25.0)	6.38E-08 (343.0)	1.54E-10	4.37E-07
OPFAILSMFW-BM	29	5.00E-01 ( 30.0)	5.48E-08 (344.0)	2.83E-10	3.05E-07
LAK70BRB-ROO-LFO	1	2.00E-02 ( 84.0)	2.47E-08 (346.5)	0.00E+00	9.46E-08
LAK70ARA-ROO-LFO	1	2.00E-02 ( 84.0)	2.47E-08 (346.5)	0.00E+00	9.46E-08
LAK2BRCB-RCD-LFO	1	2.00E-02 ( 84.0)	2.47E-08 (346.5)	0.00E+00	9.46E-08
LAK2ARCA-RCD-LFO	1	2.00E-02 ( 84.0)	2.47E-08 (346.5)	0.00E+00	9.46E-08
RACTK5-ROO-LFO	1	2.00E-02 ( 84.0)	2.26E-08 (350.0)	1.91E-10	7.67E-08
RACTK3-ROO-LFO	1	2.00E-02 ( 84.0)	2.26E-08 (350.0)	1.91E-10	7.67E-08
RACTK17-ROO-LFO	1	2.00E-02 ( 84.0)	2.26E-08 (350.0)	1.91E-10	7.67E-08
SUR-001-A-R	4	1.50E-01 ( 48.0)	2.25E-08 (352.0)	0.00E+00	2.56E-08
RA-15-1H	2	9.10E-01 ( 22.0)	2.11E-08 (353.0)	7.36E-11	7.44E-08
2WR168B-POC-LF	1	2.50E-02 ( 67.0)	1.41E-08 (354.0)	4.10E-11	5.97E-08
RA-9-10H	13	5.50E-01 ( 27.0)	8.83E-09 (355.0)	1.38E-11	4.08E-08
RA-9-23H	24	4.10E-01 ( 34.0)	8.81E-09 (356.0)	1.09E-11	3.33E-08
RA-6-4H	15	5.00E-01 ( 30.0)	7.27E-09 (357.0)		

15MFSSPERCENT	1	5.00E-01	(	30.0)	6.09E-09	(359.0)	3.17E-12	1.78E-08
RA-9-LDM	50	9.40E-01	(	20.0)	2.22E-09	(359.0)		
EE-MDC-DPS-B-RU	1	5.00E-01	(	30.0)	3.60E-10	(360.0)		
RA-15-LDM	2	9.50E-01	(	19.0)	1.47E-10	(361.0)	2.69E-13	6.56E-10
OPFALLS-REOPEN	129	1.00E+00	(	9.5)	0.00E+00	(370.5)		
DPFALL-VENT-20M	3	1.00E+00	(	9.5)	6.00E+00	(370.5)		
NOFLOW-SPC-85K	26	1.00E+00	(	9.5)	0.00E+00	(370.5)		
NOFLOW-SPC-ASX	5	1.00E+00	(	9.5)	0.00E+00	(370.5)		
NOFLOW-RHR-B1	1	1.00E+00	(	9.5)	0.00E+00	(370.5)		
NOFLOW-RHR-A1	8	1.00E+00	(	9.5)	0.00E+00	(370.5)		
NOFLOW-LCI-87	1	1.00E+00	(	9.5)	0.00E+00	(370.5)		
NOFLOW-CSS-87A	26	1.00E+00	(	9.5)	0.00E+00	(370.5)		
NOFLOW-CSS-A7A	9	1.00E+00	(	9.5)	0.00E+00	(370.5)		
FLOW-RHR-B3	57	1.00E+00	(	9.5)	0.00E+00	(370.5)		
FLOW-RHR-A3	47	1.00E+00	(	9.5)	0.00E+00	(370.5)		
SCSF0688-DENER	22	1.00E+00	(	9.5)	0.00E+00	(370.5)		
EE-CST-LVL	20	1.00E+00	(	9.5)	0.00E+00	(370.5)		
SCSF06AA-DENER	52	1.00E+00	(	9.5)	0.00E+00	(370.5)		
RCICRMCOIL-FLAG	1023	1.00E+00	(	9.5)	0.00E+00	(370.5)		
RA-NONE	306	1.00E+00	(	9.5)	0.00E+00	(370.5)		
RA-ATWS-12-3-10M	6	1.00E+00	(	9.5)	0.00E+00	(370.5)		
RA-ATW-11-11-30M	5	1.00E+00	(	9.5)	0.00E+00	(370.5)		

INTERNAL EVENTS TOTAL PLANT RUN  
UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y.05/TE.05*	Y.95/TE.95*
LPCI-MOV-DM2	4	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
RHR8018B-R00-CC	8	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8422E-BCC-CC	11	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
L2D601P-PMS-CC	33	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
DAV-M00-COM-CC	19	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
CDDG01P-PMS-CC	36	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8425B-BCC-CC	30	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
RWCF004X-V00-CC	6	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
0G2V03CB-FMS-CC	30	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
CSCC002-PMS-CC	21	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
DGCOOL-PMS-DA	27	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
SEVY03CB-FMS-CC	35	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8423B-R00-CC	11	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
SMYV02CC-FMS-CC	26	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
RHRF498B-V00-CC	3	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
RHRF488A-V00-CC	2	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
RHR8018A-R00-CC	22	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
DGHW01CC-FMS-CC	16	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8432C-BCC-CC	16	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
HCS001C-PMS-CS	16	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
NWYV01CA-FMS-CC	22	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8412A-BCC-CC	28	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8413A-R00-CC	28	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
DG5V01CA-FMS-CC	27	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8433C-B00-CC	16	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
LPCI-PMS-DM	8	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
CSCF069A-VCC-CC	2	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
SY-REGP-RCTC001X	6	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
DHY-M00-COM-CC	16	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
D0V-M00-COM-CC	27	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8234B-BCC-CC	30	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
LPCI-MOV-DM1	4	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
CSCF068B-VCC-CC	3	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
1E8233A-BCC-AS	31	2.50E-03	(161.5)	28.4	( 17.5)	2.81	0.94
25G1PK18-R00-LFO	17	5.00E-04	(251.0)	16.5	( 35.5)	1.00	1.00
CSCG2K18-R00-LFO	12	5.00E-04	(251.0)	16.5	( 35.5)	1.00	1.00
1E4327NY-R00-LFO	358	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
RACTK5-R00-LFO	1	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
RACTK3-R00-LFO	1	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
RACTK9-R00-LFO	67	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
LAK148RC-R00-LFO	26	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
LAK1889B-R00-LFO	40	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
LAK10PCA-R00-LFO	38	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
1E4327NY-R00-LFO	360	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86
RACTK17-R00-LFO	1	2.00E-02	( 84.0)	16.3	( 48.5)	1.64	0.86



1EB235A-BCO-LF	8	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB36YB-BCO-LF	54	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB1315X-BCO	1	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB235A-BCO-LF	3	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
DHVB002X-BCO-LF	1	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB36Y1X-BCO-LF	7	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB1313X-BCO	1	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB36K3X-BCO-LF	3	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
DHVB001X-BCO-LF	1	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
DAVR002X-BCO-LF	7	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB36XB-BCO-LF	7	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB211YX-BCO-LF	9	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
36X2B03X-BCO-LF	3	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
SWAB001X-BCO-LF	1	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB1Y22X-BCO	6	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
1EB43C-BCO-LF	1	7.20E-05 (363.5)	4.7	( 99.5)	1.01	0.97
DG2A-GEN-LF-FTR	445	1.90E-02 (100.0)	4.4	(115.0)	1.07	0.87
DG0-GEN-LF-FTR	546	1.90E-02 (100.0)	4.4	(115.0)	1.07	0.87
DG2B-GEN-LF-FTR	361	1.90E-02 (100.0)	4.4	(115.0)	1.07	0.87
SUR-007-V	40	8.70E-02 ( 53.5)	4.0	(117.5)	0.99	1.00
SUR-006-V	15	8.70E-02 ( 53.5)	4.0	(117.5)	0.99	1.00
LPCI-BETA	8	1.10E-01 ( 49.5)	3.8	(119.5)	1.16	1.05
DGCOOL-BETA	27	1.10E-01 ( 49.5)	3.8	(119.5)	1.16	1.05
RPS	56	1.00E-05 (379.0)	3.7	(121.0)	1.03	1.00
RA-B-27H	339	3.20E-03 (119.5)	3.7	(122.0)	1.00	0.99
RA-B-8H	468	2.70E-02 ( 64.0)	3.5	(123.0)	1.03	1.00
RA-B-23H	28	4.50E-03 (112.0)	3.5	(124.0)	1.00	1.00
RA-B-10H	1179	2.00E-02 ( 84.0)	3.4	(125.0)	1.06	1.09
RC1C001X-10P-LF	49	3.00E-02 ( 62.5)	3.2	(126.0)	1.00	1.00
RA-B-80M	1	2.00E-01 ( 43.0)	3.0	(127.0)	1.01	1.00
DG0V01CA-FMS-LF	20	5.40E-04 (230.5)	2.8	(130.5)	1.01	1.00
NWV01CA-FMS-LF	3	5.40E-04 (230.5)	2.8	(130.5)	1.01	1.00
DGHV01CC-FMS-LF	12	5.40E-04 (230.5)	2.8	(130.5)	1.01	1.00
DG2V03CB-FMS-LF	16	5.40E-04 (230.5)	2.8	(130.5)	1.01	1.00
SWV02CC-FMS-LF	12	5.40E-04 (230.5)	2.8	(130.5)	1.01	1.00
SEVY03CB-FMS-LF	18	5.40E-04 (230.5)	2.8	(130.5)	1.01	1.00
RA-B-1H	608	2.50E-01 ( 42.0)	2.5	(134.0)	1.02	0.95
RA-B-48M	55	3.00E-01 ( 41.0)	2.5	(135.0)	1.00	1.00
RA-1-3-1H	50	3.20E-03 (119.5)	2.2	(136.0)	1.00	1.00
CSCC002-PMS-LF	29	1.10E-03 (200.0)	2.1	(139.5)	1.03	1.00
RHRC02AA-PMS-LF	23	1.10E-03 (200.0)	2.1	(139.5)	1.03	1.00
C0D001P-PMS-LF	60	1.10E-03 (200.0)	2.1	(139.5)	1.03	1.00
HCS001C-PMS-LF	25	1.10E-03 (200.0)	2.1	(139.5)	1.03	1.00
C2D001P-PMS-LF	59	1.10E-03 (200.0)	2.1	(139.5)	1.03	1.00
RHRC02BB-PMS-LF	10	1.10E-03 (200.0)	2.1	(139.5)	1.03	1.00
DG0V02YA-M-UUM	20	5.00E-04 (251.0)	2.1	(150.0)	1.00	1.00
DG0V01YA-M-UUM	20	5.00E-04 (251.0)	2.1	(150.0)	1.00	1.00
DG0V01CA-F-UUM	20	5.00E-04 (251.0)	2.1	(150.0)	1.00	1.00
DG0V03YA-M-UUM	20	5.00E-04 (251.0)	2.1	(150.0)	1.00	1.00
NWV01CA-F-UUM	3	5.00E-04 (251.0)	2.1	(150.0)	1.00	1.00
DG2V11YB-M-UUM	16	5.00E-04 (251.0)	2.1	(150.0)	1.00	1.00
DGHV01CC-F-UUM	12	5.00E-04 (251.0)	2.1	(150.0)	1.00	1.00

DGHV01YC-M-UUM	12	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
DGHV02YC-M-UUM	12	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
DGHV03YC-M-UUM	12	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
SWVY02CC-F-UUM	12	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
SEVY03CB-F-UUM	17	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
DG2V10YB-M-UUM	16	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
DG2V09YB-M-UUM	16	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
DG2V03CB-F-UUM	16	5.00E-04	(251.0)	2.1	(150.0)	1.00	1.00
CSCF068B-V-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
CSCF008A-V-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF68AA-V-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
HCSF015C-V-UUM	4	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
HCSF001C-V-UUM	4	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF60AA-S-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF64AA-V-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF55AX-R-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF87AA-V-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
SCSF068B-V-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
SCSF06AA-V-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
WHRF74AA-V-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF88AY-R-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF65AA-N-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF88BX-R-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF67BB-V-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF74BB-V-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF65BB-N-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF64BB-V-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF60BB-S-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF55BX-R-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF51BB-N-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF51AA-N-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF48BB-V-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF47BB-V-UUM	1	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
RHRF47AA-V-UUM	3	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
HCSF004C-V-UUM	4	3.00E-04	(301.5)	2.1	(171.0)	1.00	1.00
1EB433C-B00-LF	14	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB432C-B00-LF	14	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB425B-B00-LF	29	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB423B-B00-LF	12	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB422B-B00-LF	12	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB417A-B00-LF	28	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB412A-B00-LF	28	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB237A-B00-LF	34	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
RHRB010B-B00-LF	4	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
RHRB01AA-B00-LF	18	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
1EB234B-B00-LF	29	5.00E-04	(251.0)	2.0	(190.0)	1.02	1.00
RA-15-BH	7	4.50E-01	(33.0)	2.0	(196.0)	1.02	1.00
Q1	111	6.20E-02	(104.0)	2.0	(197.0)	1.02	1.00
RA-3-12-68M	1	1.80E-02	(102.0)	2.0	(198.0)	1.00	1.00
RA-3-12-2H	1	2.40E-03	(179.0)	1.9	(199.0)	1.00	1.00
DG0V01YA-MCC-LF	18	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00
DGHV03YC-MCC-LF	8	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00

DGRV02YC-M00-LF	8	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00
DGRV01YC-MCC-LF	8	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00
DG2V117B-MCC-LF	17	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00
DG2V107B-M00-LF	17	3.70E-04	(301.5)	1.8	(204.0)	1.00	1.00
DG2V097B-MCC-LF	17	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00
DG0V037A-MCC-LF	18	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00
DG0V027A-M00-LF	18	3.00E-04	(301.5)	1.8	(204.0)	1.00	1.00
DG0-G-UJM	114	6.00E-03	(108.5)	1.8	(210.5)	1.02	1.01
HFB4CSC-Q0C-LF	2	6.00E-03	(108.5)	1.8	(210.5)	1.02	1.01
DG2B-G-UJM	59	6.00E-03	(108.5)	1.8	(210.5)	1.02	1.01
DG2A-G-UJM	55	6.00E-03	(108.5)	1.8	(210.5)	1.02	1.01
NNAVY01AX-A-UJM	3	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
CSCD300B-S-UJM	1	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
CSCD300A-S-UJM	3	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
CSCD300-S-UJM	4	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
SMVY02AX-A-UJM	4	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
RHRH01BX-H-UJM	3	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
RHRH01AX-H-UJM	3	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
C2D601F-S-UJM	7	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
C0D601F-S-UJM	7	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
SEVY03AX-A-UJM	7	3.00E-04	(301.5)	1.8	(217.5)	1.00	1.00
PA-1-3-BH	3	2.60E-03	(142.5)	1.7	(224.5)	1.00	1.00
TDRFP-1-0E-27H	3	2.60E-03	(142.5)	1.7	(224.5)	1.00	1.00
RA-1-3-27H	55	2.60E-03	(142.5)	1.7	(224.5)	1.00	1.00
RA-1-3-13H	3	2.60E-03	(142.5)	1.7	(224.5)	1.00	1.00
SLCC001A-P-10G01	4	1.00E-03	(204.0)	1.7	(227.0)	1.01	1.00
DG0W01FX-KLN-LFB	35	5.80E-04	(224.0)	1.7	(230.5)	0.99	1.00
DGRV01FX-KLN-LFB	21	5.80E-04	(224.0)	1.7	(230.5)	0.99	1.00
C2D601F-PLG-LF	41	5.80E-04	(224.0)	1.7	(230.5)	0.99	1.00
C0D601F-PLG-LF	51	5.80E-04	(224.0)	1.7	(230.5)	0.99	1.00
DG2V02FX-KLN-LFB	33	5.80E-04	(224.0)	1.7	(230.5)	0.99	1.00
CSCD300-PLG-LF	24	5.80E-04	(224.0)	1.7	(230.5)	0.99	1.00
RA-15-1H	2	9.10E-01	( 22.0)	1.7	(234.0)	1.30	1.00
1E42YB-V-UJM	27	1.00E-04	(339.5)	1.7	(237.5)	1.00	1.00
1EB236B-B-UJM	23	1.00E-04	(339.5)	1.7	(237.5)	1.00	1.00
1EB235A-B-UJM	14	1.00E-04	(339.5)	1.7	(237.5)	1.00	1.00
1EB36YB-B-UJM	1	1.00E-04	(339.5)	1.7	(237.5)	1.00	1.00
1E417A-V-UJM	19	1.00E-04	(339.5)	1.7	(237.5)	1.00	1.00
1E36YB-V-UJM	3	1.00E-04	(339.5)	1.7	(237.5)	1.00	1.00
SLCF00BX-KDC-LT	4	6.60E-04	(216.5)	1.6	(241.0)	1.00	1.00
RA-9-4BM	30	9.40E-01	( 20.0)	1.6	(242.0)	1.00	1.00
RA-9-1H	468	9.30E-01	( 21.0)	1.5	(243.0)	0.98	1.02
RA-15-4BM	2	9.30E-01	( 19.0)	1.4	(244.0)	1.00	1.00
LCS002A-P-UJM	67	3.00E-03	(125.5)	1.4	(246.5)	1.02	1.00
RHSC026B-F-UJM	19	3.00E-03	(125.5)	1.4	(246.5)	1.02	1.00
RHSC02AA-P-UJM	43	3.00E-03	(125.5)	1.4	(246.5)	1.02	1.00
RHSC003B-P-UJM	16	3.00E-03	(125.5)	1.4	(246.5)	1.02	1.00
OPFAIL-REOPN-20M	16	3.50E-01	( 36.0)	1.4	(249.0)	1.00	1.00
RHRH01BX-RTX-LFB	32	6.20E-03	(105.5)	1.3	(250.5)	1.01	1.00
RHRH01AX-RTX-LFB	59	6.20E-03	(105.5)	1.3	(250.5)	1.01	1.00
DG0V01CA-RUM-0	30	1.40E-03	(194.0)	1.1	(252.0)	1.00	1.00
RHR301BX-STR	1	1.10E-04	(335.5)	1.1	(253.5)	1.00	1.00

RHR301AX-STR	8	1.10E-04	(335.5)	1.1	(253.5)	1.00
Q2	1	9.40E-05	(343.0)	1.0	(255.0)	1.00
RA-3-12-BOM	4	3.50E-03	(116.0)	1.0	(256.0)	1.00
CSCF068B-VCC-LF	6	5.00E-04	(251.0)	0.8	(260.0)	1.01
CSCF068A-VCC-LF	18	5.00E-04	(251.0)	0.8	(260.0)	1.01
WCSF015C-VCC-LF	14	5.00E-04	(251.0)	0.8	(260.0)	1.01
WCSF004C-VCC-LF	14	5.00E-04	(251.0)	0.8	(260.0)	1.01
WCF004X-V00-LF	4	5.00E-04	(251.0)	0.8	(260.0)	1.01
RHRF408B-V00-LF	4	5.00E-04	(251.0)	0.8	(260.0)	1.01
RHRF488A-V00-LF	18	5.00E-04	(251.0)	0.8	(260.0)	1.01
LCSC002A-RUM-1	1	3.30E-04	(270.5)	0.8	(264.5)	1.00
RHRC003B-RUM-1	1	3.30E-04	(270.5)	0.8	(264.5)	1.00
SUR-001-A-V	42	6.10E-01	( 25.0)	0.7	(266.0)	1.01
DG-FTS-BETA	14	1.20E-02	(103.0)	0.5	(267.0)	1.06
SUR-023-R	10	8.50E-02	( 55.5)	0.4	(268.0)	1.00
SUR-021-R	154	8.50E-02	( 55.5)	0.4	(269.0)	1.01
SUR-024-R	49	9.30E-02	( 51.5)	0.3	(270.0)	1.00
SUR-022-R	10	9.30E-02	( 51.5)	0.3	(271.0)	1.00
SUR-001-A-R	4	1.50E-01	( 48.0)	0.2	(272.0)	1.00
CONT-LEAK	932	7.50E-01	( 24.0)	0.0	(273.0)	1.00
RA-1-1-27H	201	2.10E-03	(186.0)	0.0	(313.5)	1.00
RA-1-1-10H	10	2.10E-03	(186.0)	0.0	(313.5)	1.00
AP0374CP1-LFCO	1	6.60E-04	(216.5)	0.0	(313.5)	1.00
PC02AAX-ADD-LFO	3	3.00E-04	(301.5)	0.0	(313.5)	1.00
OPFAILSMFW-BM	29	5.50E-01	( 30.0)	0.0	(313.5)	1.00
OPFAILSCDS-DE-BM	11	3.40E-01	( 37.0)	0.0	(313.5)	1.00
OPFAIL-VENT-6H	1	2.10E-03	(186.0)	0.0	(313.5)	1.00
OPFAIL-VENT-ZH	118	2.10E-03	(186.0)	0.0	(313.5)	1.00
OPFAIL-SLCOX-56H	8	2.10E-03	(186.0)	0.0	(313.5)	1.00
ZWR168B-POC-LF	1	2.50E-02	( 67.0)	0.0	(313.5)	1.00
WVY01AX-ACK-LF1	8	8.40E-04	(296.0)	0.0	(313.5)	1.00
DGO-GEN-CC-FTS	114	3.70E-03	(114.0)	0.0	(313.5)	1.00
ZDGO1PSC-000-LFO	7	3.00E-04	(301.5)	0.0	(313.5)	1.00
DGO-GEN-CC-FTR	68	2.80E-03	(139.0)	0.0	(313.5)	1.00
ZDGO1PK18CA-LFOO	7	3.00E-04	(301.5)	0.0	(313.5)	1.00
LPCI-MOV-BETA	8	3.00E-02	( 62.5)	0.0	(313.5)	1.00
1E4327NYCP2-LFOO	4	3.00E-04	(301.5)	0.0	(313.5)	1.00
LC1F42CB-VCC-LF	1	4.80E-03	(111.0)	0.0	(313.5)	1.00
LAK9BCP3-LFOO	4	2.90E-03	(134.0)	0.0	(313.5)	1.00
Z2C1AAA-ADD-LFO	4	3.00E-04	(301.5)	0.0	(313.5)	1.00
LAK9ACP3-LFOO	3	2.90E-03	(134.0)	0.0	(313.5)	1.00
LAK93BCP3-LFCC	3	2.90E-03	(134.0)	0.0	(313.5)	1.00
LAK93ACP3-LFCC	2	2.90E-03	(134.0)	0.0	(313.5)	1.00
1EK18ABCPS-LFOO	6	3.00E-04	(301.5)	0.0	(313.5)	1.00
LAK38RCXCP1-LFCO	2	6.60E-04	(216.5)	0.0	(313.5)	1.00
LAK3ARCXCP1-LFCO	1	6.60E-04	(216.5)	0.0	(313.5)	1.00
1EK18A16CP6-LFOO	6	3.00E-04	(301.5)	0.0	(313.5)	1.00
LAK298XCP4-LFCC	2	6.60E-04	(216.5)	0.0	(313.5)	1.00
LAK28ACXCP4-LFCC	1	6.60E-04	(216.5)	0.0	(313.5)	1.00
LAK128CP1-LFOO	4	2.90E-03	(134.0)	0.0	(313.5)	1.00
LAK18ACPS-LFOO	3	2.90E-03	(134.0)	0.0	(313.5)	1.00
CSC0300B-PL6-LF	22	1.20E-03	(195.5)	0.0	(313.5)	1.00



LAK10ACP9-LF00	3	2.90E-03	(134.0)	0.0	(313.5)
HCSF023C-VCD-CS	1	2.40E-04	(332.5)	0.0	(313.5)
CSCD300A-PLG-LF	42	1.20E-03	(195.5)	0.0	(313.5)
HCSF001C-VOC-CS	1	2.40E-04	(332.5)	0.0	(313.5)
SMVY02AX-ACX-LF1	12	8.40E-04	(206.0)	0.0	(313.5)
HCS0001X-STR	1	3.80E-05	(378.0)	0.0	(313.5)
HCS0001C-P-U8JM	16	3.00E-03	(125.5)	0.0	(313.5)
SUR-008-V	5	2.10E-03	(186.0)	0.0	(313.5)
CSC002-P-U8JM	25	3.00E-03	(125.5)	0.0	(313.5)
SUR-005-V	68	2.10E-03	(186.0)	0.0	(313.5)
CSC02K18CP5-LF00	4	3.00E-04	(301.5)	0.0	(313.5)
HACTK13CP5-LFCO	4	6.60E-04	(216.5)	0.0	(313.5)
SLCC001A-R000105	5	1.10E-03	(200.0)	0.0	(313.5)
CRD1-REALIGN-OE	5	2.10E-03	(186.0)	0.0	(313.5)
SEVY03AX-ACX-LF1	20	8.40E-04	(206.0)	0.0	(313.5)
CRD-REALIGN-OE	1	2.10E-03	(186.0)	0.0	(313.5)
1E4327NACP2-LF00	4	3.00E-04	(301.5)	0.0	(313.5)
EE-CSCD300B-PLG	3	7.20E-04	(210.0)	0.0	(313.5)
EE-CSCD300A-PLG	7	7.20E-04	(210.0)	0.0	(313.5)
EE-CSCD300-PLG	34	7.20E-04	(210.0)	0.0	(313.5)
EE-C2D6G01F-PLG	67	7.20E-04	(210.0)	0.0	(313.5)
RLOSP	21	2.10E-04	(334.0)	0.0	(313.5)
EE-C0D6G01F-PLG	53	7.20E-04	(210.0)	0.0	(313.5)
CC002SC-000-LFO	4	3.00E-04	(301.5)	0.0	(313.5)
C2D6G01P-P-U8JM	34	3.00E-03	(125.5)	0.0	(313.5)
RHRC02BB-P-MDU8JM	10	3.00E-03	(125.5)	0.0	(313.5)
RHRC02AA-P-MDU8JM	26	3.00E-03	(125.5)	0.0	(313.5)
C0D6G01P-P-U8JM	38	3.00E-03	(125.5)	0.0	(313.5)
RA-MSLDV-1-2H	100	2.10E-03	(186.0)	0.0	(313.5)
BATT-FTDP	1	3.60E-04	(269.0)	0.0	(313.5)
RA-9-8H	394	6.00E-01	( 26.0)	0.0	(313.5)
RA-9-2H	1162	8.70E-01	( 23.0)	0.0	(313.5)
RA-9-27H	146	4.00E-01	( 35.0)	0.0	(313.5)
BATT-BETA	1	4.00E-02	( 57.0)	0.0	(313.5)
RA-9-23H	24	4.10E-01	( 34.0)	0.0	(313.5)
RA-9-10H	13	5.50E-01	( 27.0)	0.0	(313.5)
DG2B-GEN-CC-FTS	75	3.70E-03	(114.0)	0.0	(313.5)
AP251X2CP4-LFC	5	3.00E-04	(301.5)	0.0	(313.5)
DG2B-GEN-CC-FT4	46	2.80E-03	(139.0)	0.0	(313.5)
AF040X4CP1-FC1	2	6.60E-04	(216.5)	0.0	(313.5)
RA-7-1-27H	4	2.10E-03	(186.0)	0.0	(313.5)
AP040X2CP7-LF00	6	3.00E-04	(301.5)	0.0	(313.5)
RA-5V-1-2H	48	2.10E-03	(186.0)	0.0	(313.5)
DG2A-GEN-CC-FTS	36	3.70E-03	(114.0)	0.0	(313.5)
DG2A-GEN-CC-FTR	60	2.80E-03	(139.0)	0.0	(313.5)
RA-2-11-27H	66	1.60E-03	(193.0)	0.0	(313.5)
AP039X2CP4-LF00	3	3.00E-04	(301.5)	0.0	(313.5)
1E433AAX-ADD-LFO	4	3.00E-04	(301.5)	0.0	(313.5)
OPFAILS-REOPEN	129	1.00E+00	( 9.5)	0.0	(313.5)
OPFAIL-VENT-20M	3	1.00E+00	( 9.5)	0.0	(313.5)
OPFAIL-SLCOX-5H	2	2.10E-03	(186.0)	0.0	(313.5)
NOFLOW-SPC-B5X	26	1.00E+00	( 9.5)	0.0	(313.5)

NOFLOW-SPC-MSX	9	1.00E+00	( 9.5)
NOFLOW-RHR-B1	1	1.00E+00	( 9.5)
NOFLOW-RHR-A	8	1.00E+00	( 9.5)
NOFLOW-LCI-B7	1	1.00E+00	( 9.5)
NOFLOW-CSS-B7A	26	1.00E+00	( 9.5)
NOFLOW-CSS-A7A	9	1.00E+00	( 9.5)
TSMFSSO-PERCENT	1	5.00E-01	( 30.0)
TSCDSSOFFRCENT	3	5.00E-01	( 30.0)
FLOW-RHR-B3	57	1.00E+00	( 9.5)
FLOW-RHR-A3	47	1.00E+00	( 9.5)
EE-WSP-PSM-BC-R	78	3.30E-01	( 39.0)
EE-WOC-1AS-CS-R	26	3.30E-01	( 39.0)
EE-WOC-1AS-AB-R	26	3.30E-01	( 39.0)
EE-WOC-DPS-B-RU	1	5.00E-01	( 30.0)
SCSF06BB-DENER	22	1.00E+00	( 9.5)
EE-CST-LVL	20	1.00E+00	( 9.5)
SCSF06AA-DENER	52	1.00E+00	( 9.5)
RICIDRMC00L-FLAG	1023	1.00E+00	( 9.5)
RA-NONE	305	1.00E+00	( 9.5)
RA-ATWS-12-3-10M	6	1.00E+00	( 9.5)
RA-ATW-11-11-30M	5	1.00E+00	( 9.5)
RA-6-4A	15	5.00E-01	( 30.0)

INTERNAL EVENTS TOTAL PLANT RUN

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT TOTAL WITH TOP EVENT FREQUENCY 3.11E-05

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	2	5	6.0E-06	0.21255	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	1E-1	*	OPFAILS-REOPEN	*
3					RA-8-1H	*						
4	1	5	6.60E-06	0.42470	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	1E-LOSP	*	RA-8-1H	*
5					RCICRMCOOL-FLAG	*						
6	3	4	7.13E-07	0.44763	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	1E-17SP	*	RA-8-BH	*
7	4	5	4.68E-07	0.44267	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	1E-1101	*	OPFAILSIDS-DE-BM	*
8					RA-NONE	*						
9	9	5	4.54E-07	0.47727	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	EE-MDP-PSM-BC-R	*	1E-19A	*
10					RA-NONE	*						
11	5	5	4.54E-07	0.49187	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	EE-MDC-IAS-CB-R	*	1E-1101	*
12					RA-NONE	*						
13	10	5	4.54E-07	0.50667	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	EE-MDC-IAS-AB-R	*	1E-19A	*
14					RA-NONE	*						
15	6	5	4.54E-07	0.52107	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	EE-MDP-PSM-BC-R	*	1E-1101	*
16					RA-NONE	*						
17	8	5	4.54E-07	0.53566	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	EE-MDC-IAS-AB-R	*	1E-1101	*
18					RA-NONE	*						
19	7	5	4.54E-07	0.55026	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	EE-MDC-IAS-CB-R	*	1E-19A	*
20					RA-NONE	*						
21	11	5	3.50E-07	0.56152	DG-FTS-BETA	*	DGM-GEN-OM-FTS	*	1E-LOSP	*	RA-T5-8H	*
22					RA-8-8H	*						
23	12	6	2.89E-07	0.57081	DGCOOL-BETA	*	DGCOOL-PMS-OM	*	1E-T5	*	RA-3-12-LUM	*
24					RCICRMCOOL-FLAG	*	TSCDSSPERCENT	*				
25	15	7	2.79E-07	0.57979	AP040X2-R00-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
26					OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*		*
27	13	7	2.79E-07	0.58877	AP040X2-R00-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
28					RA-8-1H	*	RA-9-1H	*	RCICRMCOOL-FLAG	*		*
29	14	7	2.79E-07	0.59774	AP039X2-R00-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
30					OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*		*
31	16	4	2.76E-07	0.60664	BATT-BETA	*	BATT-FTOP	*	1E-LOSP	*	RA-8-80M	*
32	17	6	2.41E-07	0.61439	TEB2368-BCO-LF	*	CONT-LEAK	*	1E-T1	*	RA-NONE	*
33					RHR01AX-HTX-LFB	*	SUR-003-L	*				
34	23	7	2.23E-07	0.62157	TE4327N1-R00-LFO	*	AP039X2-R00-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
35					OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*		*
36	18	7	2.23E-07	0.62876	TE4327N1-R00-LFO	*	AP040X2-R00-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
37					OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*		*
38	21	7	2.23E-07	0.63594	TE4327N1-R00-LFO	*	AP039X2-R00-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
39					OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*		*
40	19	7	2.23E-07	0.64312	TE4327N1-R00-LFO	*	AP040X2-R00-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
41					RA-8-1H	*	RA-9-1H	*	RCICRMCOOL-FLAG	*		*
42	22	7	2.23E-07	0.65030	TE4327N1-R00-LFO	*	AP040X2-R00-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
43					OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*		*
44	20	7	2.23E-07	0.65748	TE4327N1-R00-LFO	*	AP040X2-R00-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
45					RA-8-1H	*	RA-9-1H	*	RCICRMCOOL-FLAG	*		*

46	24	6	1.97E-07	0.66390	DG-FTS-BETA	DG-GEN-DM-FTS	1E-LOSP	RA-TS-2H	*
47					RA-B-1H	RICORRY-10P-LF	DGCOOL-PMS-DM	1E-TT	*
48	25	5	1.75E-07	0.66958	CRD-REALIGN-DE	DGCOOL-BETA	LPCI-PMS-DM	1E-TT	*
49					FSO550PERCENT				*
50	26	6	1.17E-07	0.67316	1E-TS	LPCI-BETA			*
51					Q1	SUR-007-V			*
52	27	7	1.17E-07	0.67691	1E82368-BCO-LF	CONT-LEAK	1E-TT	RA-NONE	*
53					RHR02AA-P-UJM	SCSF08AA-DENER	SUR-003-L		*
54	28	6	1.17E-07	0.68066	1E82368-BCO-LF	CONT-LEAK	1E-TT	LCSC002A-P-UJM	*
55					RA-NONE	SUR-003-L			*
56	29	6	1.17E-07	0.68442	1E82368-BCO-LF	CONT-LEAK	1E-TT	RA-NONE	*
57					RHR02AA-P-UJM	SUR-003-L			*
58	30	6	1.17E-07	0.68817	1E82368-BCO-LF	CONT-LEAK	CONT-LEAK	1E-TT	*
59					RA-NONE	SUR-003-L			*
60	31	6	9.72E-08	0.69130	1E82368-BCO-LF	CONT-LEAK	1E-TT	RA-NONE	*
61					RHR01AA-800-CC	SUR-003-L			*
62	33	6	9.72E-08	0.69442	1E82368-BCO-LF	CONT-LEAK	1E-TT	NW0101CA-PMS-CC	*
63					RA-NONE	SUR-003-L			*
64	32	6	9.72E-08	0.69755	1E82368-BCO-LF	CONT-LEAK	CONT-LEAK	1E-TT	*
65					RA-NONE	SUR-003-L			*
66	34	7	6.70E-08	0.69971	AP040X2-800-LFO	DG-GEN-LF-FTS	DG2B-G-UJM	1E-LOSP	*
67					RA-B-1H	RA-B-1H	RICORCOOL-FLAG		*
68	35	7	6.70E-08	0.70196	AP040X2-800-LFO	DG-GEN-LF-FTS	DG2B-G-UJM	1E-LOSP	*
69					DPFALLS-REDPEN	RA-B-1H	RA-B-1H		*
70	36	7	6.70E-08	0.70401	AP039X2-800-LFO	DG-GEN-LF-FTS	DG2B-G-UJM	1E-LOSP	*
71					DPFALLS-REDPEN	RA-B-1H	RA-B-1H		*
72	37	7	6.70E-08	0.70617	AP040X2-800-LFO	DG-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
73					RA-B-1H	RA-B-1H	ACTORMCOOL-FLAG		*
74	39	7	6.70E-08	0.70832	AP039X2-800-LFO	DG-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
75					DPFALLS-REDPEN	RA-B-1H	RA-B-1H		*
76	38	7	6.70E-08	0.71048	AP040X2-800-LFO	DG-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
77					DPFALLS-REDPEN	RA-B-1H	RA-B-1H		*
78	40	4	6.50E-08	0.71257	1E-198	JOPFALL-VENT-2H	RHR01AA-WTK-LFB	SUR-005-V	*
79	41	4	6.50E-08	0.71466	1E-19A	JOPFALL-VENT-2H	RHR018X-WTK-LFB	SUR-005-V	*
80	42	6	6.49E-08	0.71675	DGCOOL-BETA	DGCOOL-PMS-DM	1E-LOSP	Q1	*
81					RA-B-UDM				*
82	44	6	6.48E-08	0.71883	1E1218-V-UJM	CONT-LEAK	CSCD300A-PLG-LF	1E-TT	*
83					RA-NONE	SUR-003-L			*
84	43	6	6.48E-08	0.72092	1E82368-B-UJM	CONT-LEAK	CSCD300A-PLG-LF	1E-TT	*
85					RA-NONE	SUR-003-L			*
86	45	6	5.76E-08	0.72277	1E1327NX-800-LFO	AP040X2-800-LFO	R08-G-UJM	1E-LOSP	*
87					RA-B-1H	RICORMCOOL-FLAG			*
88	46	6	5.76E-08	0.72462	1E1327NY-800-LFO	AP040X2-800-LFO	DG2B-G-UJM	1E-LOSP	*
89					RA-B-1H	RICORMCOOL-FLAG			*
90	47	5	5.04E-08	0.72654	1E816212-800	CONT-LEAK	1E-1101	RA-NONE	*
91					SUR-003-L				*
92	48	5	5.04E-08	0.72787	1E816211-800	CONT-LEAK	1E-1102	RA-NONE	*
93					SUR-003-L				*
94	49	6	4.67E-08	0.72937	1E82368-800-LF	CONT-LEAK	CSCD300A-PLG-LF	1E-TT	*
95					RA-NONE	SUR-003-L			*
96	57	5	4.52E-08	0.73076	1E82Y27Y-800	CONT-LEAK	1E-1101	RA-NONE	*
97					SUR-082-L				*

98	59	5	4.32E-08	0.75215	1EB368B-BCO-LF	CONT-LEAK	IE-T101	RA-NONE	*
99					SUR-003-L	CONT-LEAK	IE-T101	RA-NONE	*
100	54	5	4.32E-08	0.73354	1EB212YX-BCO-LF	CONT-LEAK	IE-T101	RA-NONE	*
101					SUR-002-L	CONT-LEAK	IE-T101	RA-NONE	*
102	53	5	4.32E-08	0.73493	1EB36YB-BCO-LF	CONT-LEAK	IE-T102	RA-NONE	*
103					SUR-003-L	CONT-LEAK	IE-T98	RA-NONE	*
104	58	5	4.32E-08	0.73532	1EB1Y2ZX-BCO	CONT-LEAK	IE-T101	RA-NONE	*
105					SUR-002-L	CONT-LEAK	IE-T102	RA-NONE	*
106	52	5	4.32E-08	0.7377*	1EB235A-BCO-LF	CONT-LEAK	IE-T101	RA-NONE	*
107					SUR-003-L	CONT-LEAK	IE-T102	RA-NONE	*
108	51	5	4.32E-08	0.735	1EB236B-BCO-LF	CONT-LEAK	IE-T101	RA-NONE	*
109					SUR-003-L	CONT-LEAK	IE-T102	RA-NONE	*
110	55	5	4.32E-08	0.74049	1EB211YX-BCO-LF	CONT-LEAK	IE-T101	RA-NONE	*
111					SUR-002-L	CONT-LEAK	IE-T101	RA-NONE	*
112	56	5	4.32E-08	0.74188	1EB36Y1X-BCO-LF	CONT-LEAK	IE-T9A	RA-NONE	*
113					SUR-003-L	CONT-LEAK	CONT-LEAK	IE-T1	*
114	50	5	4.32E-08	0.74327	1EB236B-BCO-LF	CONT-LEAK	CONT-LEAK	IE-T1	*
115					SUR-003-L	CONT-LEAK	CONT-LEAK	IE-T1	*
116	60	6	4.28E-08	0.74464	1EB236B-BCO-LF	CONT-LEAK	CONT-LEAK	IE-T1	*
117					RA-NONE	CONT-LEAK	CONT-LEAK	IE-T1	*
118	61	6	4.28E-08	0.74602	1EB236B-BCO-LF	CONT-LEAK	CONT-LEAK	IE-T1	*
119					PHRC02AA-PMS-LF	CONT-LEAK	CONT-LEAK	IE-T1	*
120	62	6	4.27E-08	0.74739	1EB236B-BCO-LF	CONT-LEAK	CONT-LEAK	IE-T1	*
121					PHR01AK-R1X-LFB	CONT-LEAK	CONT-LEAK	IE-T1	*
122	63	7	4.19E-08	0.74874	C2D0G01P-P-UUM	CONT-LEAK	CONT-LEAK	IE-T1	*
123					RA-8-1H	CONT-LEAK	CONT-LEAK	IE-T1	*
124	65	7	4.13E-08	0.75007	AP040X2-R00-LFO	CONT-LEAK	CONT-LEAK	IE-T1	*
125					RA-8-1H	CONT-LEAK	CONT-LEAK	IE-T1	*
126	64	7	4.13E-08	0.75140	AP040X2-R00-LFO	CONT-LEAK	CONT-LEAK	IE-T1	*
127					OPFAILS-REOPEN	CONT-LEAK	CONT-LEAK	IE-T1	*
128	66	7	4.13E-08	0.75272	AP039X2-R00-LFO	CONT-LEAK	CONT-LEAK	IE-T1	*
129					OPFAILS-REOPEN	CONT-LEAK	CONT-LEAK	IE-T1	*
130	68	7	4.13E-08	0.75405	AP040X2-R00-LFO	CONT-LEAK	CONT-LEAK	IE-T1	*
131					OPFAILS-REOPEN	CONT-LEAK	CONT-LEAK	IE-T1	*
132	67	7	4.13E-08	0.75538	AP039X2-R00-LFO	CONT-LEAK	CONT-LEAK	IE-T1	*
133					OPFAILS-REOPEN	CONT-LEAK	CONT-LEAK	IE-T1	*
134	69	7	4.13E-08	0.75671	AP040X2-R00-LFO	CONT-LEAK	CONT-LEAK	IE-T1	*
135					RA-8-1H	CONT-LEAK	CONT-LEAK	IE-T1	*
136	70	6	3.89E-08	0.75796	1E42YB-V-UUM	CONT-LEAK	CONT-LEAK	IE-T1	*
137					RA-NONE	CONT-LEAK	CONT-LEAK	IE-T1	*
138	71	7	3.49E-08	0.75908	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	IE-LOSP	RA-8-1H	*
139					RA-9-1H	SCICRMCOOL-FLAG	SEVY03CB-FMS-CC	IE-LOSP	*
140	75	7	3.49E-08	0.76020	C2D0G01P-PMS-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP	*
141					RA-8-1H	RA-9-1H	RA-9-1H	IE-LOSP	*
142	73	7	3.49E-08	0.76133	1EB425B-5CC-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP	*
143					RA-8-1H	RA-9-1H	RA-9-1H	IE-LOSP	*
144	74	7	3.49E-08	0.76245	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V03CB-FMS-CC	IE-LOSP	*
145					RA-8-1H	RA-9-1H	RA-9-1H	IE-LOSP	*
146	76	7	3.49E-08	0.76357	DAV-MOD-COM-CC	DG0-GEN-LF-FTS	RA-9-1H	IE-LOSP	*
147					RA-8-1H	RA-9-1H	RA-9-1H	IE-LOSP	*
148	72	7	3.49E-08	0.76469	1EB234B-BCC-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP	*
149					RA-8-1H	RA-9-1H	RA-9-1H	IE-LOSP	*

150	77	7	3.35E-08	0.76577	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	RCS001C-P-UJM	1E-LOSP	*
151					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
152	81	7	3.35E-08	0.76685	1E4327N1-R00-LF0	C20001P-P-UJM	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
153					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
154	80	7	3.35E-08	0.76792	1E4327N1-R00-LF0	C20001P-P-UJM	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
155					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
156	78	7	3.35E-08	0.76900	AP040X2-R00-LF0	C00001P-P-UJM	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
157					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
158	79	7	3.35E-08	0.77008	AP040X2-R00-LF0	C500002-P-UJM	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
159					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
160	82	7	3.30E-08	0.77114	1E4327N1-R00-LF0	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
161					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
162	83	7	3.30E-08	0.77220	1E4327N1-R00-LF0	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
163					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
164	84	6	3.27E-08	0.77326	1E82368-R00-LF	CONT-LEAK			RA-NONE	*
165					RPH01A1-R1X-LF8	SUR-003-L				*
166	85	6	3.27E-08	0.77431	1E82368-R00-LF	CONT-LEAK			1E-T1	* MAINSTAY-ACH-F1
167					RA-NONE	SUR-003-L				*
168	86	6	3.21E-08	0.77534	1E82368-R00-LF	CONT-LEAK			1E-T5	* RA-NONE
169					RPH01A1-R1X-LF8	SUR-003-L				*
170	87	6	3.20E-08	0.77637	1E-T5	LPCI-MOV-BETA		LPCI-MOV-DMS	1E-T3	* /OFFFALL-VENT-2H
171					Q1	SUR-007-V				*
172	88	6	3.20E-08	0.77740	1E-T5	LPCI-MOV-BETA		LPCI-MOV-DMS	1E-T1	* /OFFFALL-VENT-2H
173					Q1	SUR-007-V				*
174	91	5	3.14E-08	0.77841	1E-T96	/OFFFALL-VENT-2H		RPH002A-P-UJM	SCS16AAA-DENER	*
175					SUR-005-V					*
176	90	4	3.14E-08	0.77942	1E-T96	LCSC002A-P-UJM		/OFFFALL-VENT-2H	SUR-005-V	*
177	89	5	3.14E-08	0.78044	1E-T9A	/OFFFALL-VENT-2H		RPH002B-P-UJM	SCS16ABB-DENER	*
178					SUR-005-V					*
179	92	7	2.79E-08	0.78137	1E4327N1-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	DG0V03B-FMS-CC	1E-LOSP	*
180					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
181	96	7	2.79E-08	0.78223	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	D0V-MOV-COM-CC	1E-LOSP	*
182					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
183	93	7	2.79E-08	0.78313	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	RCS001C-FMS-CS	1E-LOSP	*
184					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
185	95	7	2.79E-08	0.78403	1E4327N1-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	DG0V03B-FMS-CC	1E-LOSP	*
186					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
187	94	7	2.79E-08	0.78492	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	D0V-MOV-FMS-CC	1E-LOSP	*
188					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
189	98	7	2.79E-08	0.78582	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	SWY02-L-FMS-CC	RA-B-1H	*
190					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
191	97	7	2.79E-08	0.78672	1E4327N1-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	RA-B-1H	*
192					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
193	99	7	2.79E-08	0.78762	1E4327N1-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	RA-B-1H	*
194					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
195	113	7	2.79E-08	0.78851	AP040X2-R00-LF0	CSUC002-FMS-CC	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
196					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
197	114	7	2.79E-08	0.78941	1E4327N1-R00-LF0	C20001P-FMS-CC	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
198					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
199	116	7	2.79E-08	0.79031	1E8237A-R00-AS	AP030X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
200					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*
201	115	7	2.79E-08	0.79121	1E8137A-R00-CC	AP040X2-R00-LF0	DG0-GEN-LF-F15	DG0-GEN-LF-F15	1E-LOSP	*
202					RA-B-1H	RA-9-1H	RCTCRMCOOL-FLAG			*

203	111	7	2.79E-08	0.76210	1E633A-BCC-AS	* AP040X2-R00-LFO	* DG2B-GEN-LF-FTS	* 1E-LOSP
204					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
205	108	7	2.79E-08	0.79350	1E4327N1-R00-LFO	* 1E8234B-BCC-CC	* DG0-GEN-LF-FTS	* 1E-LOSP
206					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
207	107	7	2.79E-08	0.79350	AP040X2-R00-LFO	* DUV-M00-COM-CC	* DG2B-GEN-LF-FTS	* 1E-LOSP
208					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
209	112	7	2.79E-08	0.77454	1E4327N1-R00-LFO	* 1E8425B-BCC-CC	* DG0-GEN-LF-FTS	* 1E-LOSP
210					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
211	106	7	2.79E-08	0.79570	1E4327N1-R00-LFO	* 1E8234B-BCC-CC	* DG0-GEN-LF-FTS	* 1E-LOSP
212					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
213	101	7	2.79E-08	0.79659	1E4327N1-R00-LFO	* DAV-M00-COM-CC	* DG0-GEN-LF-FTS	* 1E-LOSP
214					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
215	110	7	2.79E-08	0.79749	1E8433L-B00-CC	* AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* 1E-LOSP
216					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
217	100	7	2.79E-08	0.79830	1E8432C-BCC-CC	* AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* 1E-LOSP
218					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
219	102	7	2.79E-08	0.79929	AP040X2-R00-LFO	* C00G01P-PMS-CC	* DG2B-GEN-LF-FTS	* 1E-LOSP
220					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
221	103	7	2.79E-08	0.80118	1E4327N1-R00-LFO	* 1E8425B-BCC-CC	* DG0-GEN-LF-FTS	* 1E-LOSP
222					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
223	105	7	2.79E-08	0.80108	1E8433L-B00-CC	* AP040X2-R00-LFO	* DG2B-GEN-LF-FTS	* 1E-LOSP
224					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
225	109	7	2.79E-08	0.80198	AP040X2-R00-LFO	* DG0V01CA-FMS-CC	* DG2B-GEN-LF-FTS	* 1E-LOSP
226					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
227	104	7	2.79E-08	0.80288	1E4327N1-R00-LFO	* C2D001P-PMS-CC	* DG0-GEN-LF-FTS	* 1E-LOSP
228					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
229	117	6	2.79E-08	0.80377	1E8236B-B00-LF	* CONT-LEAK	* 1E-T2	* RA-NONE
230					RHRH01AX-HTX-LFB	* SUR-003-L	* LAK9BRCB-R00-LFO	* RA-1-1-27H
231	119	5	2.52E-08	0.80458	CONT-LEAK	* 1E-1101	* LAK189RB-R00-LFO	* RA-1-1-27H
232					SUR-003-L	* 1E-1101	* LAK189RB-R00-LFO	* RA-1-1-27H
233	120	5	2.52E-08	0.80539	CONT-LEAK	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
234					SUR-003-L	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
235	122	5	2.52E-08	0.80621	CONT-LEAK	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
236					SUR-003-L	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
237	118	5	2.52E-08	0.80702	CONT-LEAK	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
238					SUR-003-L	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
239	121	5	2.52E-08	0.80783	CONT-LEAK	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
240					SUR-003-L	* 1E-1102	* LAK189RB-R00-LFO	* RA-1-1-27H
241	123	6	2.63E-08	0.80861	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP
242					RA-8-8H	* RA-9-8H	* /RA-5V-1-2H	* RHRH01AX-HTX-LFB
243	124	5	2.33E-08	0.80936	1E836YB-B00-LF	* 1E-15	* /CONT-LEAK	* 1E-T1
244					SUR-006-V	* C00G01P-P-UUM	* CONT-LEAK	* RA-NONE
245	125	6	2.26E-08	0.81008	1E8236B-B00-LF	* SUR-003-L	* 1E-T4	* RA-NONE
246					RA-NONE	* SUR-003-L	* /CONT-LEAK	* 1E-T1
247	126	6	2.20E-08	0.81079	1E8236A-B00-LF	* SUR-003-L	* /CONT-LEAK	* RA-NONE
248					RHRH01AX-HTX-LFB	* SUR-003-L	* SUR-021-R	* RA-NONE
249	127	6	2.07E-08	0.81145	1E8236B-B00-LF	* SUR-021-R	* SUR-021-R	* RA-NONE
250					RA-NONE	* SUR-021-R	* SUR-021-R	* RA-NONE
251	128	7	2.07E-08	0.81212	1E8236B-B00-LF	* /CONT-LEAK	* SUR-021-R	* RA-NONE
252					RHRH02AA-P-UUM	* SCSP05AA-DENER	* SUR-021-R	* RA-NONE
253	130	6	2.07E-08	0.81276	1E8236B-B00-LF	* /CONT-LEAK	* 1E-T1	* RA-NONE
254					RHRH02AA-P-UUM	* SUR-021-R	* SUR-021-R	* RA-NONE

255	129	6	2.07E-08	0.81345	1E82368-B00-LF	/CONT-LEAK	IE-T1	LCS002A-P-UJM	*
256	134	6	1.98E-08	0.81409	RA-NONE	SUR-021-R	DG2B-GEN-LF-FTS	IE-LOSP	*
257	134	6	1.98E-08	0.81409	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP	*
258	133	7	1.98E-08	0.81472	RA-B-10H	RA-9-2H	DG2B-GEN-LF-FTS	IE-LOSP	*
259	133	7	1.98E-08	0.81472	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	RCFORMCOOL-FLAG	IE-LOSP	*
260	132	6	1.98E-08	0.81536	RA-B-10H	RA-9-2H	DG2B-GEN-LF-FTS	IE-LOSP	*
261	132	6	1.98E-08	0.81536	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
262	131	6	1.98E-08	0.81650	RA-B-10H	RA-9-2H	DG2B-GEN-LF-FTR	IE-LOSP	*
263	131	6	1.98E-08	0.81650	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
264	135	6	1.94E-08	0.81663	1E82368-B00-LF	CONT-LEAK	CSC168A-V00-LF	IE-T1	*
265	135	6	1.94E-08	0.81663	RA-NONE	SUR-003-L	DG2B-GEN-LF-FTS	IE-T1	*
266	139	7	1.94E-08	0.81725	1E82368-B00-LF	CONT-LEAK	FLOW-RHR-A3	IE-T1	*
267	139	7	1.94E-08	0.81725	RA-NONE	RHRF488A-V00-LF	SUR-003-L	IE-LOSP	*
268	140	6	1.91E-08	0.81798	1E4327N1-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	IE-LOSP	*
269	140	6	1.91E-08	0.81798	RA-B-PA	RA-9-BH	DG2A-GEN-LF-FTR	IE-LOSP	*
270	141	6	1.94E-08	0.81850	1E4327N1-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
271	141	6	1.94E-08	0.81850	RA-B-PA	RA-9-BH	DG2A-GEN-LF-FTR	IE-LOSP	*
272	137	6	1.94E-08	0.81913	AP019A2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP	*
273	137	6	1.94E-08	0.81913	RA-B-8H	RA-9-BH	DG2B-GEN-LF-FTS	IE-LOSP	*
274	136	6	1.94E-08	0.81975	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
275	136	6	1.94E-08	0.81975	RA-B-8H	RA-9-BH	DG2B-GEN-LF-FTR	IE-LOSP	*
276	138	6	1.94E-08	0.82038	1E82368-B00-LF	CONT-LEAK	IE-T1	RA-NONE	*
277	138	6	1.94E-08	0.82038	RHR801AA-R00-LF	SUR-003-L	LAK148RC-R00-LFO	NOFLOW-CSS-B7A	*
278	145	7	1.92E-08	0.82100	CONT-LEAK	IE-T101	SUR-003-L	NOFLOW-CSS-A7A	*
279	143	7	1.92E-08	0.82161	NOFLOW-SPC-65K	RA-2-11-27H	LAK148RC-R00-LFO	NOFLOW-CSS-A7A	*
280	143	7	1.92E-08	0.82161	CONT-LEAK	IE-T102	SUR-003-L	LAK93ARC-R00-LFO	*
281	142	6	1.92E-08	0.82223	NOFLOW-SPC-45K	RA-2-11-27H	IE-T102	LAK93ARC-R00-LFO	*
282	142	6	1.92E-08	0.82223	CONT-LEAK	FLOW-RHR-A3	IE-T101	LAK93ARC-R00-LFO	*
283	144	6	1.92E-08	0.82285	RA-2-11-27H	SUR-003-L	IE-T101	LAK93ARC-R00-LFO	*
284	144	6	1.92E-08	0.82285	CONT-LEAK	FLOW-RHR-B3	IE-T101	LAK93ARC-R00-LFO	*
285	148	6	1.72E-08	0.82340	1E82368-B00-LF	C00G01P-PMS-CC	/CONT-LEAK	IE-T1	*
286	147	6	1.72E-08	0.82396	RA-NONE	SUR-021-R	IE-T1	RA-NONE	*
287	147	6	1.72E-08	0.82396	1E82368-B00-LF	/CONT-LEAK	IE-T1	RA-NONE	*
288	146	6	1.72E-08	0.82451	RHR801AA-R00-CC	SUR-021-R	IE-T1	MWYD1CA-FN-CC	*
289	146	6	1.72E-08	0.82451	1E82368-B00-LF	/CONT-LEAK	IE-T1	MWYD1CA-FN-CC	*
290	149	6	1.64E-08	0.82504	RA-NONE	SUR-021-R	IE-LOSP	RA-15-1H	*
291	149	6	1.64E-08	0.82504	DG-FTS-BETA	DG0-GEN-DM-FTS	IE-LOSP	RA-15-1H	*
292	156	7	1.59E-08	0.82553	RA-B-1H	SY-REGP-RC1C007K	DG2B-GEN-LF-FTR	IE-LOSP	*
293	156	7	1.59E-08	0.82553	AP039K2-R00-LFO	DG0-GEN-LF-FTS	RA-9-2H	IE-LOSP	*
294	153	6	1.59E-08	0.82606	OPFALLS-REOPEN	RA-B-10H	DG2A-GEN-LF-FTR	IE-LOSP	*
295	153	6	1.59E-08	0.82606	1E4327N1-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
296	152	7	1.59E-08	0.82657	RA-B-10H	RA-9-2H	DG2A-GEN-LF-FTR	IE-LOSP	*
297	152	7	1.59E-08	0.82657	1E4327N1-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
298	157	7	1.59E-08	0.82708	RA-B-10H	RA-9-2H	RCFORMCOOL-FLAG	IE-LOSP	*
299	157	7	1.59E-08	0.82708	1E4327N1-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
300	155	6	1.59E-08	0.82759	RA-6-12H	RA-9-2H	RCFORMCOOL-FLAG	IE-LOSP	*
301	155	6	1.59E-08	0.82759	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
302	158	7	1.59E-08	0.82810	RA-B-10H	RA-9-2H	DG2B-GEN-LF-FTR	IE-LOSP	*
303	158	7	1.59E-08	0.82810	AP040X2-R00-LFO	DG0-GEN-LF-FTS	RCFORMCOOL-FLAG	IE-LOSP	*
304	158	7	1.59E-08	0.82810	RA-B-10H	RA-9-2H	DG2B-GEN-LF-FTR	IE-LOSP	*
305	158	7	1.59E-08	0.82810	AP040X2-R00-LFO	DG0-GEN-LF-FTS	RCFORMCOOL-FLAG	IE-LOSP	*
306	158	7	1.59E-08	0.82810	RA-B-10H	RA-9-2H	DG2B-GEN-LF-FTR	IE-LOSP	*



307	154	6	1.59E-08	0.82861	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
308					RA-B-10H	* RA-9-2H	+		
309	150	7	1.59E-08	0.82912	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
310					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	+	
311	151	6	1.59E-08	0.82963	AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
312					RA-B-10H	* RA-9-2H	+		
313	164	6	1.59E-08	0.83014	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
314					RA-B-10H	* RA-9-2H	+		
315	162	6	1.59E-08	0.83065	AP039X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
316					RA-B-10H	* RA-9-2H	+		
317	163	6	1.59E-08	0.83116	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
318					RA-B-10H	* RA-9-2H	+		
319	159	7	1.59E-08	0.83167	AP039X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
320					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	+	
321	161	6	1.59E-08	0.83219	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
322					RA-B-10H	* RA-9-2H	+		
323	160	7	1.59E-08	0.83270	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
324					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	+	
325	165	7	1.59E-08	0.83321	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
326					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
327	168	6	1.58E-08	0.83372	1E236B-BCO-LF	* CONT-LEAK	* 1E-T3	* LCSC002A-P-UUM	*
328					RA-NONE	* SUR-003-L	+		
329	167	6	1.58E-08	0.83422	1E236B-BCO-LF	* CONT-LEAK	* 1E-T3	* RA-NONE	*
330					RHRC02AA-P-UUM	* SUR-003-L	+		
331	166	7	1.58E-08	0.83473	1E236B-BCO-LF	* CONT-LEAK	* 1E-T3	* RA-NONE	*
332					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-003-L	+	
333	169	6	1.58E-08	0.83524	1E236B-BCO-LF	* CDDG01P-P-UUM	* CONT-LEAK	* 1E-T3	*
334					RA-NONE	* SUR-003-L	+		
335	170	7	1.56E-08	0.83574	AP040X2-ROO-LFO	* DGOV01CA-RUM-0	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
336					RA-B-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
337	174	6	1.56E-08	0.83624	1E4327NX-ROO-LFO	* AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* 1E-LOSP	*
338					RA-B-8H	* RA-9-8H	+		
339	176	6	1.56E-08	0.83674	1E4327NY-ROO-LFO	* AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* 1E-LOSP	*
340					RA-B-8H	* RA-9-9H	+		
341	173	6	1.56E-08	0.83725	1E4327NX-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* 1E-LOSP	*
342					RA-B-8H	* RA-9-8H	+		
343	175	7	1.56E-08	0.83775	1E236B-BCO-LF	* CONT-LEAK	* 1E-T3	* RA-NONE	*
344					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-003-L	+	
345	171	6	1.56E-08	0.83825	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* 1E-LOSP	*
346					RA-B-8H	* RA-9-8H	+		
347	172	6	1.56E-08	0.83875	1E236B-BCO-LF	* CONT-LEAK	* 1E-T3	* LCSC002A-P-UUM	*
348					RA-NONE	* SUR-003-L	+		
349	177	7	1.53E-08	0.83924	C2D001P-PMS-LF	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
350					RA-B-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
351	182	7	1.51E-08	0.83973	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
352					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
353	181	7	1.51E-08	0.84021	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
354					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
355	180	6	1.51E-08	0.84070	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
356					RA-B-10H	* RA-9-2H	+		
357	179	6	1.51E-08	0.84118	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
358					RA-B-10H	* RA-9-2H	+		

359	178	6	1.51E-08	0.84167	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP	*
360					RA-9-2H	RA-9-2H			*
361	183	6	1.35E-08	0.84210	1E2368-BCD-LF	CONT-LEAK	1E-12	LESC02A-P-JUM	*
362					RA-NONE	SUR-003-L			*
363	184	7	1.35E-08	0.84253	1E2368-BCD-LF	CONT-LEAK	1E-12	RA-NONE	*
364					RHR02AA-P-UM	SCSF06AA-DENER	SUR-003-L		*
365	185	6	1.34E-08	0.84277	1E4327NX-R00-LFO	AP040X2-R00-LF	DG0V01CA-RUM-0	1E-LOSP	*
366					RA-8-1H	RCICRMCOOL-FLAG			*
367	186	6	1.34E-08	0.84340	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0V01CA-RUM-0	1E-LOSP	*
368					RA-8-1H	RCICRMCOOL-FLAG			*
369	189	6	1.32E-08	0.84382	1E2368-BCD-LF	CONT-LEAK	1E-13	NAVY01CA-PMS-CC	*
370					RA-NONE	SUR-003-L			*
371	187	6	1.32E-08	0.84425	1E2368-BCD-LF	C00G01P-PMS-CC	CONT-LEAK	1E-13	*
372					RA-NONE	SUR-003-L			*
373	188	6	1.32E-08	0.84467	1E2368-BCD-LF	CONT-LEAK	1E-13	RA-NONE	*
374					RHR01AA-R00-CC	SUR-003-L			*
375	193	7	1.27E-08	0.84508	1E4327NY-R00-LFO	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	*
376					RA-8-10H	RA-9-2H			*
377	192	7	1.27E-08	0.84549	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	*
378					RA-8-10H	RA-9-2H			*
379	198	7	1.27E-08	0.84589	1E4327NX-R00-LFO	AP040X2-R00-LFO	RCICRMCOOL-FLAG	1E-LOSP	*
380					OPFAILS-REOPEN	RA-8-10H	DG0-GEN-LF-FTR		*
381	199	6	1.27E-08	0.84630	1E4327NX-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	*
382					RA-8-10H	RA-9-2H			*
383	197	7	1.27E-08	0.84671	1E4327NX-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	*
384					RA-8-10H	RA-9-2H			*
385	195	7	1.27E-08	0.84712	1E4327NY-R00-LFO	AP039X2-R00-LFO	RCICRMCOOL-FLAG	1E-LOSP	*
386					OPFAILS-REOPEN	RA-8-10H	DG0-GEN-LF-FTR		*
387	196	7	1.27E-08	0.84753	1E4327NY-R00-LFO	AP040X2-R00-LFO	RA-9-2H	1E-LOSP	*
388					OPFAILS-REOPEN	RA-8-10H	DG0-GEN-LF-FTR		*
389	191	7	1.27E-08	0.84794	1E4327NX-R00-LFO	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	*
390					OPFAILS-REOPEN	RA-8-10H	DG0-GEN-LF-FTR		*
391	194	6	1.27E-08	0.84835	1E4327NX-R00-LFO	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	*
392					RA-8-10H	RA-9-2H			*
393	190	6	1.27E-08	0.84875	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	*
394					RA-8-10H	RA-9-2H			*
395	201	4	1.26E-08	0.84916	CSD300A-PLG-LF	1E-19B	/OPFAIL-VENT-2H	SUR-075-V	*
396	200	4	1.26E-08	0.84956	CSD300F-PLG-LF	1E-19A	/OPFAIL-VENT-2H	SUR-075-V	*
397	205	7	1.23E-08	0.84996	1E4327Y-R00-LFO	C20G01P-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP	*
398					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG		*
399	206	7	1.23E-08	0.85035	AP040X2-R00-LFO	DG0-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP	*
400					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG		*
401	204	7	1.23E-08	0.85075	AP040X2-R00-LFO	C5CC002-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP	*
402					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG		*
403	203	7	1.23E-08	0.85114	1E4327NX-R00-LFO	C20G01P-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP	*
404					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG		*
405	202	7	1.23E-08	0.85154	AP040X2-R00-LFO	C00G01P-PMS-LF	DG2B-GEN-LF-FTS	1E-LOSP	*
406					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG		*
407	212	6	1.21E-08	0.85193	AP039X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP	*
408					RA-8-10H	RA-9-2H			*
409	208	6	1.21E-08	0.85231	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	D52A-GEN-LF-FTR	1E-LOSP	*
410					RA-8-10H	RA-9-2H			*

411	211	7	1.21E-08	0.85270	AP040K2-ROO-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
412					OPFAILS-REDPEN	RA-8-10H	RA-9-2H	
413	214	7	1.21E-08	0.85309	1E4327NIX-ROO-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	IE-LOSP
414					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
415	209	7	1.21E-08	0.85348	AP040K2-ROO-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
416					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
417	213	7	1.21E-08	0.85387	1E4327NY-ROO-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	IE-LOSP
418					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
419	210	7	1.21E-08	0.85425	AP039K2-ROO-LFO	D30-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
420					OPFAILS-RCOPEN	RA-8-10H	RA-9-2H	
421	207	6	1.21E-08	0.85464	1E4327NIX-ROO-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	IE-LOSP
422					RI-8-10H	RA-9-2H		
423	215	6	1.21E-08	0.85503	AP040K2-ROO-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
424					RA-8-10H	RA-9-2H		
425	216	7	1.17E-08	0.85541	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP	RA-8-1H
426					RA-9-1H	RCICRMCOOL-FLAG	SEVY03AK-ACK-LFI	
427	218	4	1.15E-08	0.85578	1E-19B	/OPFAIL-VENT-2H		SUR-005-V
428	217	4	1.15E-08	0.85615	1E-19A	/OPFAIL-VENT-2H		SUR-005-V
429	220	4	1.15E-08	0.85652	C20G01P-PMS-LF	1E-19A	/OPFAIL-VENT-2H	SUR-005-V
430	219	4	1.15E-08	0.85689	C00G01P-PMS-LF	1E-19B	/OPFAIL-VENT-2H	SUR-005-V
431	221	6	1.15E-08	0.85726	1E42YB-V-UUM	/CONT-LEAK	CSCD300A-PLG-LF	IE-T1
432					RA-NONE	SUR-021-R		
433	222	6	1.15E-08	0.85763	1E8236B-B-UUM	/CONT-LEAK	CSCD300A-PLG-LF	IE-T1
434					RA-NONE	SUR-021-R		
435	223	7	1.15E-08	0.85800	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
436					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
437	224	6	1.15E-08	0.85837	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
438					RA-8-10H	RA-9-2H		
439	225	5	1.13E-08	0.85873	1E836YB-BCO-LF	1E-15	LCS002A-P-UUM	/RA-5V-1-2H
440					SUR-006-V			
441	226	6	1.13E-08	0.85909	1E836YB-BCO-LF	1E-15	/RA-5V-1-2H	RHR022A-P-UUM
442					SCSF06AA-DENER	SUR-006-V		
443	227	6	1.06E-08	0.85943	1E8236B-BCO-LF	CONT-LEAK	1E-T4	LCS002A-P-UUM
444					RA-NONE	SUR-003-L		
445	228	7	1.06E-08	0.85977	1E8236B-BCO-LF	CONT-LEAK	1E-T4	RA-NONE
446					RHR022A-P-UUM	SCSF06AA-DENER	SUR-003-L	
447	229	6	1.06E-08	0.86011	1E4327NIX-ROO-LFO	AP040K2-ROO-LFO	C00G01P-PMS-LF	IE-LOSP
448					RA-8-1H	RCICRMCOOL-FLAG		
449	230	6	1.06E-08	0.86045	1E4327NY-ROO-LFO	AP040K2-ROO-LFO	C00G01P-PMS-LF	IE-LOSP
450					RA-8-1H	RCICRMCOOL-FLAG		
451	231	7	1.05E-08	0.86079	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	1G2B-GEN-LF-FTS	IE-LOSP
452					RA-8-1H	RA-9-1H	RCIC00TX-TOP-LF	
453	232	7	1.00E-08	0.86111	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	EE-C20G01F-PLG	IE-LOSP
454					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	
455	234	7	9.91E-09	0.86143	AP040K2-ROO-LFO	DG0-G-UUM	DG2B-GEN-CC-FTS	IE-LOSP
456					AP040K2-ROO-LFO	DG0-G-UUM	DG2B-G-UUM	
457	233	7	9.91E-09	0.86175	RA-8-1H	DG0-GEN-CC-FTS	DG2B-G-UUM	IE-LOSP
458					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	
459	236	7	9.37E-09	0.86205	1E4327NY-ROO-LFO	DG0-GEN-LF-FTS	1E-LOSP	RA-8-1H
460					RA-9-1H	RCICRMCOOL-FLAG	SEVY03AK-ACK-LFI	
461	235	7	9.37E-09	0.86235	1E4327NIX-ROO-LFO	DG0-GEN-LF-FTS	1E-LOSP	RA-8-1H
462					RA-9-1H	RCICRMCOOL-FLAG	SEVY03AK-ACK-LFI	

463	237	7	9.37E-09	0.86266	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	IE-LOSP	RA-B-1H	*
464					RA-9-1H	RCICRMOOL-FLAG	SWY02AK-ACX-LF1			*
465	238	7	9.22E-09	0.86295	CONT-LEAK	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	IE-LOSP		*
466					RA-B-2-H	RA-9-27H	SUR-002-L			*
467	239	5	9.15E-09	0.86325	IE-T5	RA-NONE	RPS		RWCF00AK-W00-CC	*
468					SUR-001-A-V	/CONT-LEAK	IE-T101		RA-NONE	*
469	241	5	8.93E-09	0.86353	1E16212-BC0	/CONT-LEAK	IE-T102		RA-NONE	*
470					SUR-021-B	/CONT-LEAK				*
471	240	5	8.93E-09	0.86392	1E16211-BC0	CONT-LEAK	CSCD300A-PLG-LF	IE-T3		*
472					SUR-021-R	SUR-003-L	CSCD300A-PLG-LF	IE-T3		*
473	242	6	8.78E-09	0.86410	1E16236-B-1UM	CONT-LEAK	DG2A-GEN-LF-FTS	IE-LOSP		*
474					RA-NONE	CONT-LEAK	RCIC001X-TDP-LF	IE-LOSP		*
475	243	6	8.78E-09	0.86439	1E421B-V-UUM	SUR-003-L	DG2A-GEN-LF-FTS	IE-LOSP		*
476					RA-NONE	DG0-GEN-LF-FTS	RCIC001X-TDP-LF	IE-LOSP		*
477	247	7	8.37E-09	0.86466	1E4327N-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	IE-LOSP		*
478					RA-NONE	RA-9-1H	RCIC001X-TDP-LF	IE-LOSP		*
479	245	7	8.37E-09	0.86492	AP07YX2-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	IE-LOSP		*
480					RA-8-1H	RA-9-1H	RCIC001X-TDP-LF	IE-LOSP		*
481	246	7	8.37E-09	0.86519	1E4327N-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	IE-LOSP		*
482					RA-8-1H	RA-9-1H	RCIC001X-TDP-LF	IE-LOSP		*
483	244	7	8.37E-09	0.86546	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP		*
484					RA-8-1H	RA-9-1H	RCIC001X-TDP-LF	IE-LOSP		*
485	248	6	6.32E-09	0.86573	CONT-LEAK	EE-MOP-PSM-BC-R	IE-T101	LAK7888-R00-LFO		*
486					RA-1-1-27H	SUR-002-L	IE-T101	LAK7888-R00-LFO		*
487	249	6	6.32E-09	0.86600	CONT-LEAK	EE-MOP-PSM-BC-R	IE-T101	LAK7888-R00-LFO		*
488					RA-1-1-27H	SUR-002-L	IE-T101	LAK7888-R00-LFO		*
489	250	6	8.26E-09	0.86626	1E16236-BC0-LF	/CONT-LEAK	CSCD300A-PLG-LF	IE-T1		*
490					RA-NONE	SUR-021-R	DG2V02FX-KLM-LFB	IE-LOSP		*
491	251	7	8.09E-09	0.86652	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMOOL-FLAG	IE-LOSP		*
492					RA-8-1H	RA-9-1H	DG2B-GEN-LF-FTS	IE-LOSP		*
493	253	7	8.09E-09	0.86678	1E18BFC-R00-LFO	DG0-GEN-LF-FTS	RCICPWOOL-FLAG	IE-LOSP		*
494					RA-8-1H	RA-9-1H	DG2B-GEN-LF-FTS	IE-LOSP		*
495	252	7	8.09E-09	0.86704	C29G01F-PLG-LF	DG0-GEN-LF-FTS	RCICRMOOL-FLAG	IE-LOSP		*
496					RA-8-1H	RA-9-1H	EE-C29G01F-PLG	IE-LOSP		*
497	256	7	8.04E-09	0.86730	1E4327N-R00-LFO	DG0-GEN-LF-FTS	RCICRMOOL-FLAG	IE-LOSP		*
498					RA-8-1H	RA-9-1H	EE-C29G01F-PLG	IE-LOSP		*
499	254	7	8.04E-09	0.86756	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	RCICRMOOL-FLAG	IE-LOSP		*
500					RA-8-1H	RA-9-1H	EE-C00G01F-PLG	IE-LOSP		*
501	255	7	8.04E-09	0.86782	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	RCICRMOOL-FLAG	IE-LOSP		*
502					OPFALLS-REOPEN	RA-8-1H	EE-C00G01F-PLG	IE-LOSP		*
503	258	7	8.04E-09	0.86808	AP059X2-R00-LFO	DG0-GEN-LF-FTS	RA-9-1H	IE-LOSP		*
504					OPFALLS-REOPEN	RA-8-1H	EE-CSD300-PLG	IE-LOSP		*
505	261	7	8.04E-09	0.86834	AP040X2-R00-LFO	DG0-GEN-LF-FTS	RA-9-1H	IE-LOSP		*
506					OPFALLS-REOPEN	RA-8-1H	EE-CSD300-PLG	IE-LOSP		*
507	260	7	8.04E-09	0.86860	1E4327N-R00-LFO	DG0-GEN-LF-FTS	RA-9-1H	IE-LOSP		*
508					RA-8-1H	RA-9-1H	EE-C29G01F-PLG	IE-LOSP		*
509	259	7	8.04E-09	0.86885	AP040X2-R00-LFO	DG0-GEN-LF-FTS	RCICRMOOL-FLAG	IE-LOSP		*
510					RA-8-1H	DG0-GEN-LF-FTS	EE-CSD300-PLG	IE-LOSP		*
511	257	7	8.04E-09	0.86911	AP059X2-R00-LFO	DG2B-GEN-LF-FTS	RCICRMOOL-FLAG	IE-LOSP		*
512					OPFALLS-REOPEN	RA-8-1H	EE-C00G01F-PLG	IE-LOSP		*
513	265	5	7.81E-09	0.86936	CONT-LEAK	RA-8-1H	RA-9-1H	IE-LOSP		*
514					SUR-003-L	IE-T101	RA-MSLOV-1-2H	RHR016N-WTX-LFB		*

515	264	6	7.81E-09	0.86962	CONT-LEAK	IE-T9A	OPFAIL-VENT-2H	QA-NONE	*
516					RPHOTOX-RTX-LFB	SUR-003-L	*	*	*
517	262	6	7.81E-09	0.86987	CONT-LEAK	IE-T9B	OPFAIL-VENT-2H	RA-NONE	*
518					RPHOTOX-RTX-LFB	SUR-003-L	*	*	*
519	263	5	7.81E-09	0.87012	CONT-LEAK	IE-T102	RA-MSLV-1-2H	RPHOTOX-RTX-LFB	*
520					SUR-003-L	*	*	*	*
521	266	4	7.69E-09	0.87037	IE-T5	OPFAIL-SLCOX-SH	PPS	SUR-001-A-V	*
522	275	5	7.65E-09	0.87061	TEB2368-BCO-LF	/CONT-LEAK	IE-T9A	RA-NONE	*
523					SUR-021-R	*	*	*	*
524	276	5	7.65E-09	0.87086	TEB36XB-BCO-LF	/CONT-LEAK	IE-T101	RA-NONE	*
525					SUR-021-R	*	*	*	*
526	273	5	7.65E-09	0.87110	TEB2Y22X-BCO	/CONT-LEAK	IE-T101	RA-NONE	*
527					SUR-023-R	*	*	*	*
528	268	5	7.65E-09	0.87135	TEB2111X-BCO-LF	/CONT-LEAK	IE-T102	RA-NONE	*
529					SUR-023-R	*	*	*	*
530	274	5	7.65E-09	0.87160	TEB235A-BCO-LF	/CONT-LEAK	IE-T9B	RA-NONE	*
531					SUR-021-R	*	*	*	*
532	267	5	7.65E-09	0.87184	TEB36XB-BCO-LF	/CONT-LEAK	IE-T101	RA-NONE	*
533					SUR-021-R	*	*	*	*
534	271	5	7.65E-09	0.87209	TEB2121X-BCO-LF	/CONT-LEAK	IE-T101	RA-NONE	*
535					SUR-023-R	*	*	*	*
536	272	5	7.65E-09	0.87233	TEB2368-BCO-LF	/CONT-LEAK	IE-T101	RA-NONE	*
537					SUR-021-R	*	*	*	*
538	270	5	7.65E-09	0.87258	TEB1Y22X-BCO	/CONT-LEAK	IE-T102	RA-NONE	*
539					SUR-023-R	*	*	*	*
540	269	5	7.65E-09	0.87283	TEB36Y1X-BCO-LF	/CONT-LEAK	IE-T101	RA-NONE	*
541					SUR-021-R	*	*	*	*
542	277	6	7.57E-09	0.87307	TEB2368-BCO-LF	/CONT-LEAK	IE-T1	RA-NONE	*
543					RRC022AA-FMS-LF	SUR-021-R	*	*	*
544	278	6	7.57E-09	0.87331	TEB2368-BCO-LF	COG01P-FMS-LF	/CONT-LEAK	IE-T1	*
545					RA-NONE	SUR-021-R	*	*	*
546	279	4	7.54E-09	0.87356	EE-C20601F-PLS	IE-T9A	OPFAIL-VENT-2H	SUR-005-V	*
547	280	4	7.54E-09	0.87380	EE-C5C03008-PLG	IE-T9A	OPFAIL-VENT-2H	SUR-005-V	*
548	281	7	7.53E-09	0.87404	DG0-GEN-LF-F15	DG2B-GEN-LF-F15	IE-LOSP	RA-B-1H	*
549					RA-9-1H	RCICRMCDOL-FLAG	SEY103CB-FMS-LF	*	*
550	282	7	7.53E-09	0.87428	DG0-GEN-LF-F15	DG2B-GEN-LF-F15	RCICRMCDOL-FLAG	IE-LOSP	*
551					RA-8-1H	RA-9-1H	RCICRMCDOL-FLAG	*	*
552	283	7	7.37E-09	0.87452	AP039K2-900-LFO	CONT-LEAK	DG0-GEN-LF-F15	IE-LOSP	*
553					RA-8-27H	RA-9-27H	SUR-002-L	*	*
554	284	7	7.37E-09	0.87476	AP040K2-900-LFO	CONT-LEAK	DG0-GEN-LF-F15	IE-LOSP	*
555					RA-8-27H	RA-9-27H	SUR-002-L	*	*
556	285	7	7.37E-09	0.87500	AP040K2-900-LFO	DG0-GEN-LF-F15	NACTK13CP5-LFO	IE-LOSP	*
557					RA-8-1H	RA-9-1H	RCICRMCDOL-FLAG	*	*
558	286	6	7.33E-09	0.87523	IE-LOSP	LPCI-BETA	LPCI-FMS-OM	OPFAIL-VENT-2H	*
559					RA-8-27H	SUR-006-V	*	*	*
560	288	7	7.00E-09	0.87546	CONT-LEAK	DG0-GEN-LF-F15	DG2A-GEN-LF-F15	IE-LOSP	*
561					RA-8-27H	RA-9-27H	SUR-002-L	*	*
562	287	7	7.00E-09	0.87568	CONT-LEAK	DG0-GEN-LF-F15	DG2A-GEN-LF-F15	IE-LOSP	*
563					RA-8-27H	RA-9-27H	SUR-002-L	*	*
564	292	7	6.98E-09	0.87591	DG0-GEN-LF-F15	DG2B-GEN-LF-F15	DG2V03CB-F-LUM	IE-LOSP	*
565					RA-8-1H	RA-9-1H	RCICRMCDOL-FLAG	*	*
566	289	7	6.98E-09	0.87613	DG0-GEN-LF-F15	DG2B-GEN-LF-F15	DG2V03CB-M-LUM	IE-LOSP	*
567					RA-8-1H	RA-9-1H	RCICRMCDOL-FLAG	*	*



620	320	7	6.47E-09	0.88199	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	D60-GEN-LF-FTS	IE-LOSP
621	318	7	6.47E-09	0.88219	RA-8-1H	RA-8-1H	RA-8-1H	RA-8-1H	RA-8-1H	IE-LOSP
622	319	7	6.47E-09	0.88240	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	IE-LOSP
623	313	7	6.47E-09	0.88261	AP039X2-R00-LFO	AP039X2-R00-LFO	AP039X2-R00-LFO	AP039X2-R00-LFO	AP039X2-R00-LFO	IE-LOSP
624	317	7	6.47E-09	0.88282	OPF041S-REOPEN	OPF041S-REOPEN	OPF041S-REOPEN	OPF041S-REOPEN	OPF041S-REOPEN	IE-LOSP
625	314	7	6.47E-09	0.88303	1E4327NK-R00-LFO	1E4327NK-R00-LFO	1E4327NK-R00-LFO	1E4327NK-R00-LFO	1E4327NK-R00-LFO	IE-LOSP
626	315	7	6.47E-09	0.88324	AP039X2-R00-LFO	AP039X2-R00-LFO	AP039X2-R00-LFO	AP039X2-R00-LFO	AP039X2-R00-LFO	IE-LOSP
627	316	7	6.47E-09	0.88344	OPF041S-REOPEN	OPF041S-REOPEN	OPF041S-REOPEN	OPF041S-REOPEN	OPF041S-REOPEN	IE-LOSP
628	321	7	6.47E-09	0.88365	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	IE-LOSP
629	327	7	6.34E-09	0.88386	CONT-LEAK	CONT-LEAK	CONT-LEAK	CONT-LEAK	CONT-LEAK	IE-T5
630	326	8	6.34E-09	0.88406	LAK938RC-R00-LFO	LAK938RC-R00-LFO	LAK938RC-R00-LFO	LAK938RC-R00-LFO	LAK938RC-R00-LFO	LAK938RC-R00-LFO
631	328	6	6.32E-09	0.88426	RA-NONE	RA-NONE	RA-NONE	RA-NONE	RA-NONE	RA-NONE
632	329	6	6.23E-09	0.88446	1E23568-BCO-LF	1E23568-BCO-LF	1E23568-BCO-LF	1E23568-BCO-LF	1E23568-BCO-LF	IE-T5
633	330	6	6.22E-09	0.88466	RA-NONE	RA-NONE	RA-NONE	RA-NONE	RA-NONE	RA-NONE
634	332	5	6.22E-09	0.88486	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	IE-LOSP
635	333	5	6.22E-09	0.88506	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	IE-LOSP
636	334	5	6.22E-09	0.88526	RA-8-8H	RA-8-8H	RA-8-8H	RA-8-8H	RA-8-8H	IE-LOSP
637	331	5	6.22E-09	0.88546	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	IE-LOSP
638	335	7	6.11E-09	0.88566	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	IE-LOSP
639	336	8	6.09E-09	0.88586	DGCOOL-BETA	DGCOOL-BETA	DGCOOL-BETA	DGCOOL-BETA	DGCOOL-BETA	G1
640	337	4	6.08E-09	0.88605	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	IE-LOSP
641	338	4	6.08E-09	0.88625	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	IE-LOSP
642	341	7	4.03E-09	0.88644	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	IE-LOSP
643	339	7	6.03E-09	0.88664	RA-8-1H	RA-8-1H	RA-8-1H	RA-8-1H	RA-8-1H	IE-LOSP
644	340	7	6.03E-09	0.88683	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	IE-LOSP
645	345	7	6.03E-09	0.88702	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	1E4327NY-R00-LFO	IE-LOSP
646	343	7	6.03E-09	0.88722	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	IE-LOSP
647					RA-8-1H	RA-8-1H	RA-8-1H	RA-8-1H	RA-8-1H	IE-LOSP
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672	342	7	6.03E-09	0.88741	1E4327N4-R00-LFO	* D00-GEN-LF-FTS	* IE-LOSP	* RA-B-1H
673					RA-9-1H	* RCIORMCOOL-FLAG	* SEYV03CB-PMS-LF	*
674	344	7	6.03E-09	0.88750	AF04042-R00-LFO	* D00-GEN-LF-FTS	* IE-LOSP	* RA-B-1H
675					RA-9-1H	* RCIORMCOOL-FLAG	* S4Y022-PMS-LF	*
676	346	5	6.00E-09	0.88750	CONT-LEAK	* IE-1101	* RA-NONE	* RPS
677					SUR-002-A-1	*		*
678	347	5	5.84E-09	0.88799	DIGCOOL-BETA	* DIGCOOL-PMS-OM	* IE-LOSP	* Q1
679					RA-B-2H	*		*
680	350	6	5.83E-09	0.88817	D02A-G-UM	* D02A-GEN-LF-FTS	* D02B-GEN-LF-FTS	* IE-LOSP
681					RA-B-2H	*		*
682	348	6	5.83E-09	0.88836	D02-GEN-LF-FTS	* D02A-GEN-LF-FTS	* D02B-G-UM	* IE-LOSP
683					RA-B-2H	*		*
684	349	6	5.83E-09	0.88855	D02-GEN-LF-FTS	* D02A-G-UM	* D02B-GEN-LF-FTS	* IE-LOSP
685					RA-B-2H	*		*
686	352	6	5.80E-09	0.88874	1E82368-R00-LF	* C006019-PMS-LF	* CONT-LEAK	* IE-13
687					RA-NONE	* SUR-003-L	*	*
688	351	6	5.80E-09	0.88892	1E82368-R00-LF	* CONT-LEAK	* IE-13	* RA-NONE
689					RRC0244-PMS-LF	* SUR-003-L	*	*
690	353	6	5.79E-09	0.88911	1E82368-R00-LF	* CONT-LEAK	* IE-13	* RA-NONE
691					RPH01A4-RTN-LFB	* SUR-021-R	*	*
692	354	6	5.78E-09	0.88929	1E82368-R00-LF	* CONT-LEAK	* IE-11	* NAVY01A4-R00-LFI
693					RA-NONE	* SUR-021-R	*	*
694	355	6	5.70E-09	0.88948	1E82368-R00-LF	* CONT-LEAK	* IE-13	* RA-NONE
695					RRC0244-PMS-LF	* SUR-003-L	*	*
696	356	6	5.70E-09	0.88966	1E82368-R00-LF	* C006019-PMS-LF	* CONT-LEAK	* IE-15
697					RA-NONE	* SUR-003-L	*	*
698	357	7	5.60E-09	0.88984	AF04042-R00-LFO	* CONT-LEAK	* D00-GEN-LF-FTR	* IE-LOSP
699					RA-B-27H	* RA-9-27H	* SUR-002-L	*
700	358	7	5.60E-09	0.89002	AF03942-R00-LFO	* CONT-LEAK	* D00-GEN-LF-FTR	* IE-LOSP
701					RA-B-27H	* RA-9-27H	* SUR-002-L	*
702	389	7	5.58E-09	0.89020	AF04042-R00-LFO	* D00G019A-M-UM	* RCIORMCOOL-FLAG	* IE-LOSP
703					RA-B-1H	* RA-9-1H	* D02B-GEN-LF-FTS	*
704	367	7	5.58E-09	0.89038	1E4327N4-R00-LFO	* D00-GEN-LF-FTS	* D02V1115-M-UM	* IE-LOSP
705					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
706	388	7	5.58E-09	0.89056	1E4327N4-R00-LFO	* D00-GEN-LF-FTS	* D02V03CB-F-UM	* IE-LOSP
707					RA-1-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
708	384	7	5.58E-09	0.89074	AF04042-R00-LFO	* D00-GEN-LF-FTS	* H03F004C-VCC-LF	* IE-LOSP
709					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
710	386	7	5.58E-09	0.89092	1E4327N4-R00-LFO	* Z0019K18-R00-LFO	* D00-GEN-LF-FTS	* IE-LOSP
711					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
712	385	7	5.58E-09	0.89110	1E4327N4-R00-LFO	* Z0019K18-R00-LFO	* D00-GEN-LF-FTS	* IE-LOSP
713					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
714	383	7	5.58E-09	0.89127	AF04042-R00-LFO	* D00-GEN-LF-FTS	* D00G019C-M-UM	* IE-LOSP
715					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
716	381	7	5.58E-09	0.89146	AF04042-R00-LFO	* C0002K18-R00-LFO	* D00-GEN-LF-FTS	* IE-LOSP
717					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
718	380	7	5.58E-09	0.89164	1E8433C-R00-LF	* AP04042-R00-LFO	* J00-GEN-LF-FTS	* IE-LOSP
719					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
720	378	7	5.58E-09	0.89182	1E8235A-R00-LF	* AP04042-R00-LFO	* D02B-GEN-LF-FTS	* IE-LOSP
721					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP
722	382	7	5.7E-09	0.89200	1E4327N4-R00-LFO	* D00-GEN-LF-FTS	* D02V1015-M-UM	* IE-LOSP
723					RA-B-1H	* RA-9-1H	* RCIORMCOOL-FLAG	* IE-LOSP



724	376	7	5.58E-09	0.89218	AP040X2-ROO-LFO	* DG0V02YA-M-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
725					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
726	373	7	5.58E-09	0.89236	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V11YB-M-UUM	* IE-LOSP	*
727					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
728	374	7	5.58E-09	0.89254	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V09YB-M-UUM	* IE-LOSP	*
729					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
730	377	7	5.58E-09	0.89271	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V03CB-F-UUM	* IE-LOSP	*
731					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
732	*		5.8E-09	0.39289	1E4327NY-ROO-LFO	* 1E8234B-BCC-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
733					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
734	372	7	5.58E-09	0.89307	1E8412A-BCC-LF	* AP040X2-ROO-LFO	* DG2B-GEN-LF-FTS	* IE-LOSP	*
735					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
736	370	8	5.58E-09	0.89325	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* EE-CST-LVL	* HCSF01SC-VCC-LF	*
737					IE-LOSP	* RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+
738	369	7	5.58E-09	0.89343	1E8433C-BOO-LF	* AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	*
739					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
740	375	7	5.58E-09	0.89361	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* DGHV01CC-F-UUM	* IE-LOSP	*
741					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
742	368	7	5.58E-09	0.89379	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V09YB-M-UUM	* IE-LOSP	*
743					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
744	364	7	5.58E-09	0.89397	1E4327NX-ROO-LFO	* 1E8425B-BCC-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
745					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
746	371	7	5.58E-09	0.89415	1E4327NY-ROO-LFO	* 1E8234B-BCC-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
747					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
748	367	7	5.58E-09	0.89433	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* DGHV02YC-M-UUM	* IE-LOSP	*
749					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
750	362	7	5.58E-09	0.89451	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V10YB-M-UUM	* IE-LOSP	*
751					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
752	365	7	5.58E-09	0.89469	1E8413A-BOO-LF	* AP040X2-ROO-LFO	* DG2B-GEN-LF-FTS	* IE-LOSP	*
753					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
754	366	7	5.58E-09	0.89487	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* DGHV03YC-M-UUM	* IE-LOSP	*
755					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
756	359	7	5.58E-09	0.89505	AP040X2-ROO-LFO	* DG0V03YA-M-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
757					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
758	360	7	5.58E-09	0.89523	AP040X2-ROO-LFO	* DG0V01CA-F-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
759					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
750	363	7	5.58E-09	0.89541	1E4327NY-ROO-LFO	* 1E8425B-BCC-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
761					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
762	361	7	5.58E-09	0.89559	1E8233A-BCC-LF	* AP039X2-ROO-LFO	* DG2B-GEN-LF-FTS	* IE-LOSP	*
763					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	*
764	392	7	5.58E-09	0.89577	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	* RA-8-1H	*
765					RA-9-1H	* RCICRMCOOL-FLAG	* SEVY03CB-F-UUM	+	*
766	391	7	5.58E-09	0.89595	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	* RA-8-1H	*
767					RA-9-1H	* RCICRMCOOL-FLAG	* SWVY02CC-F-UUM	+	*
768	390	7	5.58E-09	0.89613	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	* RA-8-1H	*
769					RA-9-1H	* RCICRMCOOL-AG	* SEVY03CB-F-UUM	+	*
770	396	6	5.57E-09	0.89630	1E4327NX-ROO-LFO	* AP040X2-ROO-LFO	* CODG01F-PLG-LF	* IE-LOSP	*
771					RA-8-1H	* RCICRMCOOL-FLAG	+	*	
772	393	6	5.57E-09	0.89648	1E4327NX-ROO-LFO	* AP040X2-ROO-LFO	* DG0V01FX-KLN-LFB	* IE-LOSP	*
773					RA-8-1H	* RCICRMCOOL-FLAG	+	*	
774	394	6	5.57E-09	0.89666	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* DG0V01FX-KLN-LFB	* IE-LOSP	*
775					RA-8-1H	* RCICRMCOOL-FLAG	+	*	

776	395	6	5.57E-09	0.89684	1E4327NY-R00-LFO	AP040X2-R00-LFO	C0D601P-PLG-LF	1E-LOSP	*
777					RA-B-1H	RC1CRMCOOL-FLAG			*
778	397	6	5.57E-09	0.89702	1E-15	RA-ATWS-12-3-10M	RPS	SAK6ARCK-R00-LFO	*
779					SAK6BRCK-R00-LFO	SUR-001-A-V			*
780	398	6	5.57E-09	0.89720	1E-15	RA-NONE	RPS	SAK2ARCK-R00-LFO	*
781					SAK2BRCK-R00-LFO	SUR-001-A-V			*
782	399	6	5.39E-09	0.89737	1E9236B-BCO-LF	CONT-LEAK	C5CD300A-PLG-LF	1E-TZ	*
783					RA-NONE	SUR-003-L			*
784	400	7	5.37E-09	0.89755	C2D601P-PMS-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
785					OPFAIL-REDFN-20M	RA-8-1H	RA-7-1H		*
786	401	7	5.32E-09	0.89772	CONT-LEAK	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	1E-LOSP	*
787					RA-B-27H	RA-9-27H	SUR-002-L		*
788	405	5	5.24E-09	0.89789	FLOW-RHR-B	1E-19A	/OPFAIL-VENT-2H	RHRFA8BB-V00-LF	*
789					SUR-005-V				*
790	406	4	5.24E-09	0.89806	C5CF068B-VCC-LF	1E-19A	/OPFAIL-VENT-2H	SUR-005-V	*
791	403	4	5.24E-09	0.89822	1E-19A	/OPFAIL-VENT-2H	RHR8018B-800-LF	SUR-005-V	*
792	407	4	5.24E-09	0.89839	C5CF068A-VCC-LF	1E-19B	/OPFAIL-VENT-2H	SUR-005-V	*
793	402	4	5.24E-09	0.89856	1E-19B	/OPFAIL-VENT-2H	RHR8014A-800-LF	SUR-005-V	*
794	404	5	5.24E-09	0.89873	FLOW-RHR-A3	1E-19B	/OPFAIL-VENT-2H	RHRFA8AA-V00-LF	*
795					SUR-005-V				*
796	408	6	4.94E-09	0.89889	1E8236B-BCO-LF	C0D601P-PMS-LF	CONT-LEAK	1E-TZ	*
797					RA-NONE	SUR-003-L			*
798	409	6	4.94E-09	0.89905	1E8236B-BCO-LF	CONT-LEAK	1E-TZ	RA-NONE	*
799					RHR02AA-PMS-LF	SUR-003-L			*
800	410	6	4.93E-09	0.89921	1E8236B-BCO-LF	/CONT-LEAK	1E-TZ	RA-NONE	*
801					RHR01AX-HTX-LFB	SUR-021-R			*
802	418	6	4.80E-09	0.89936	1E4327NY-R00-LFO	1E8412A-8CC-LF	AP040X2-R00-LFO	1E-LOSP	*
803					RA-B-1H	RC1CRMCOOL-FLAG			*
804	416	6	4.80E-09	0.89952	1E4327NY-R00-LFO	1E8413A-800-LF	AP040X2-R00-LFO	1E-LOSP	*
805					RA-B-1H	RC1CRMCOOL-FLAG			*
806	413	6	4.80E-09	0.89967	1E4327NY-R00-LFO	1E8233A-8CC-LF	AP039X2-R00-LFO	1E-LOSP	*
807					RA-B-1H	RC1CRMCOOL-FLAG			*
808	417	6	4.80E-09	0.89982	1E4327NY-R00-LFO	1E8233A-8CC-LF	AP040X2-R00-LFO	1E-LOSP	*
809					RA-B-1H	RC1CRMCOOL-FLAG			*
810	415	6	4.80E-09	0.89998	1E4327NY-R00-LFO	1E8412A-8CC-LF	AP040X2-R00-LFO	1E-LOSP	*
811					RA-B-1H	RC1CRMCOOL-FLAG			*
812	414	6	4.80E-09	0.90013	1E4327NY-R00-LFO	1E8233A-8CC-LF	AP040X2-R00-LFO	1E-LOSP	*
813					RA-B-1H	RC1CRMCOOL-FLAG			*
814	411	6	4.80E-09	0.90029	1E4327NY-R00-LFO	1E8237A-8CC-LF	AP039X2-R00-LFO	1E-LOSP	*
815					RA-B-1H	RC1CRMCOOL-FLAG			*
816	412	6	4.80E-09	0.90044	1E4327NY-R00-LFO	1E8413A-800-LF	AP040X2-R00-LFO	1E-LOSP	*
817					RA-B-1H	RC1CRMCOOL-FLAG			*
818	419	6	4.76E-09	0.90059	DG0-GEN-LF-FTS	DG2A-G-UUM	DG2B-GEN-LF-FTR	1E-LOSP	*
819					RA-B-10H				*
820	420	6	4.76E-09	0.90075	DG0-G-UUM	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP	*
821					RA-B-10H	RA-9-2H			*
822	421	7	4.76E-09	0.90090	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-C-UUM	1E-LOSP	*
823					RA-B-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
824	426	6	4.76E-09	0.90105	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	OC2B-C-UUM	1E-LOSP	*
825					RA-B-10H	RA-9-2H			*
826	425	6	4.76E-09	0.90121	DG0-GEN-LF-FTR	DG2A-G-UUM	DG2B-GEN-LF-FTS	1E-LOSP	*
827					RA-B-10H	RA-9-2H			*

828	422	7	4.76E-09	0.90136	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	HF04CSC-Q0C-LF	1E-LOSP	*
829					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
830	423	7	4.76E-09	1.90151	DG0-G-UUM	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	*
831					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
832	424	6	4.76E-09	0.90167	DG0-G-UUM	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	*
833					RA-8-10H	RA-9-2H	DG2B-G-UUM	1E-LOSP	*
834	427	6	4.76E-09	0.90182	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2A-G-UUM	1E-LOSP	*
835					RA-8-10H	RA-9-2H	DG2A-G-UUM	1E-LOSP	*
836	430	6	4.67E-09	0.90197	1E4327NX-ROO-LFO	DG0-GEN-LF-FTS	DG2A-G-UUM	1E-LOSP	*
837					RA-8-8H	RA-9-8H	DG2B-G-UUM	1E-LOSP	*
838	429	6	4.67E-09	0.90212	AP040X2-ROO-LFO	DG0-GEN-LF-FTS	DG2B-G-UUM	1E-LOSP	*
839					RA-8-8H	RA-9-8H	DG2B-G-UUM	1E-LOSP	*
840	431	6	4.67E-09	0.90227	AP039X2-ROO-LFO	DG0-GEN-LF-FTS	DG2A-G-UUM	1E-LOSP	*
841					RA-8-8H	RA-9-8H	DG2A-G-UUM	1E-LOSP	*
842	428	6	4.67E-09	0.90242	1E4327NY-ROO-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	*
843					RA-8-8H	RA-9-8H	DG2A-GEN-LF-FTS	1E-LOSP	*
844	432	6	4.67E-09	0.90257	1E4327NX-ROO-LFO	DG0-G-UUM	DG2A-GEN-LF-FTS	1E-LOSP	*
845					RA-8-8H	RA-9-8H	DG2B-GEN-LF-FTS	1E-LOSP	*
846	433	6	4.67E-09	0.90272	AP039X2-ROO-LFO	DG0-G-UUM	DG2B-GEN-LF-FTS	1E-LOSP	*
847					RA-8-8H	RA-9-8H	DG2B-GEN-LF-FTS	1E-LOSP	*
848	434	6	4.67E-09	0.90287	AP040X2-ROO-LFO	DG0-G-UUM	DG2B-GEN-LF-FTS	1E-LOSP	*
849					RA-8-8H	RA-9-8H	DG2A-GEN-LF-FTS	1E-LOSP	*
850	435	6	4.67E-09	0.90302	1E4327NY-ROO-LFO	DG0-G-UUM	DG2A-GEN-LF-FTS	1E-LOSP	*
851					RA-8-8H	RA-9-8H	RA-NONE	RPS	*
852	436	6	4.65E-09	0.90317	1E-T3	OPFAILSM-M-8M	RA-NONE	RPS	*
853					RWCF004X-V00-CC	SUR-001-A-V	1E-LOSP	RA-8-27H	*
854	438	6	4.57E-09	0.90332	AP039X2-ROO-LFO	CONT-LEAK	1E-LOSP	RA-8-27H	*
855					RHR0101X-HTX-LFB	SUR-002-L	1E-LOSP	RA-8-27H	*
856	437	6	4.57E-09	0.90346	AP040X2-ROO-LFO	CONT-LEAK	1E-LOSP	RA-8-27H	*
857					RHR0101X-HTX-LFB	SUR-002-L	1E-T5	RA-8-27H	*
858	440	5	4.50E-09	0.90361	1EB235XA-BCO-LF	CSCD300B-PLG-LF	1E-T5	RA-8-27H	*
859					SUR-006-V	CSCD306A-PLG-LF	1E-T5	RA-8-27H	*
860	439	5	4.50E-09	0.90375	1EB36YB-BCO-LF	CSCD306A-PLG-LF	1E-T5	RA-8-27H	*
861					SUR-006-V	D0VB101X-BCO-LF	D0VB201Y-BCO-LF	RA-8-1H	*
862	446	8	4.46E-09	0.90390	AP040X2-ROO-LFO	RA-8-1H	RA-9-1H	DG2B-GEN-LF-FTS	*
863					1E-LOSP	D0VB102X-BCO-LF	D0VB202X-BCO-LF	RC1CRMCOOL-FLAG	*
864	442	8	4.46E-09	0.90404	AP040X2-ROO-LFO	RA-8-1H	RA-9-1H	DG2B-GEN-LF-FTS	*
865					1E-LOSP	D0VB101X-BCO-LF	D0VB201X-BCO-LF	RC1CRMCOOL-FLAG	*
866	445	8	4.46E-09	0.90419	AP039X2-ROO-LFO	OPFAILS-REOPEN	RA-8-1H	DG2B-GEN-LF-FTS	*
867					1E-LOSP	D0VB101X-BCO-LF	RA-8-1H	DG2B-GEN-LF-FTS	*
868	441	8	4.46E-05	0.90433	AP040X2-ROO-LFO	OPFAILS-REOPEN	RA-8-1H	DG2B-GEN-LF-FTS	*
869					1E-LOSP	D0VB102X-BCO-LF	RA-8-1H	DG2B-GEN-LF-FTS	*
870	444	8	4.46E-09	0.90447	AP040X2-ROO-LFO	OPFAILS-REOPEN	RA-8-1H	DG2B-GEN-LF-FTS	*
871					1E-LOSP	D0VB102X-BCO-LF	RA-8-1H	DG2B-GEN-LF-FTS	*
872	443	8	4.46E-07	0.90462	AP039X2-ROO-LFO	OPFAILS-REOPEN	RA-8-1H	DG2B-GEN-LF-FTS	*
873					1E-LOSP	1E-T101	LAK9BRCB-ROO-LFO	RA-1-1-27H	*
874	451	5	4.46E-09	0.90476	/CONT-LEAK	1E-T101	LAK185R8-ROO-LFO	RA-1-1-27H	*
875					SUR-021-R	1E-T101	LAK185R8-ROO-LFO	RA-1-1-27H	*
876	450	5	4.46E-09	0.90490	/CONT-LEAK	1E-T102	LAK185R8-ROO-LFO	RA-1-1-27H	*
877					SUR-021-R	1E-T102	LAK185R8-ROO-LFO	RA-1-1-27H	*
878	449	5	4.46E-09	0.90505	/CONT-LEAK	1E-T102	LAK185R8-ROO-LFO	RA-1-1-27H	*
879					SUR-021-R	1E-T102	LAK185R8-ROO-LFO	RA-1-1-27H	*

880	448	5	4.46E-09	0.90519	/CONT-LEAK	* IE-T102	* LAK10RCA-ROO-LFO	* RA-1-1-27H	*
881					SUR-021-R	+			
882	447	5	4.46E-09	0.90533	/CONT-LEAK	* IE-T102	* LAK9ARCA-ROO-LFO	* RA-1-1-27H	*
883					SUR-021-R	+			
884	453	6	4.42E-09	0.90548	AP039X2-ROO-LFO	* CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
885					RA-8-27H	* SUR-002-L	+		
886	452	6	4.42E-09	0.90562	AP040X2-ROO-LFO	* CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
887					RA-8-27H	* SUR-002-L	+		
888	455	5	4.28E-09	0.90576	CONT-LEAK	* IE-T102	* LAK3ARCA-RCO-LFO	* RA-1-1-27H	*
889					SUR-003-L	+			
890	454	5	4.28E-09	0.90589	CONT-LEAK	* IE-T101	* LAK3BRCB-RCO-LFO	* RA-1-1-27H	*
891					SUR-003-L	+			
892	456	7	4.28E-09	0.90603	1EB236B-BCO-LF	* CONT-LEAK	* IE-T1	* NOFLOW-RHR-A1	*
893					RA-NONE	* RHR301AX-STR	* SUR-003-L	+	
894	457	6	4.25E-09	0.90617	1EB236B-BCO-LF	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T4	*
895					RA-NONE	* SUR-003-L	+		
896	458	5	4.21E-09	0.90630	1EB36YB-BCO-LF	* IE-T1	* /RA-5V-1-2H	* RHRH01AX-HTX-LFB	*
897					SUR-005-V	+			
898	459	7	4.19E-09	0.90644	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	* RA-B-1H	*
899					RA-9-1H	* RCICRMCOOL-FLAG	* SEVY03AX-A-UUM	+	
900	465	7	4.19E-09	0.90657	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* DG2V09YB-MCC-LF	* IE-LOSP	*
901					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
902	464	7	4.19E-09	0.90671	C2DGG01F-S-UUM	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
903					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
904	461	7	4.19E-09	0.90684	2DGG01PSC-000-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
905					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
906	466	7	4.19E-09	0.90698	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* DG2V10YB-MOO-LF	* IE-LOSP	*
907					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
908	462	7	4.19E-09	0.90711	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* DG2V11YB-MCC-LF	* IE-LOSP	*
909					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
910	460	7	4.19E-09	0.90725	2DGG01PK18CA-LFOO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
911					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
912	463	7	4.19E-09	0.90738	AP040X2CP7-LFOO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
913					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
914	467	7	4.19E-09	0.90752	1EK18ABCP6-LFOO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
915					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
916	468	5	4.13E-09	0.90765	1EB36YB-BCO-LF	* IE-T5	* /RA-5V-1-2H	* PHRC02AA-PMS-LF	*
917					SUR-006-V	+			
918	469	5	4.13E-09	0.90778	1EB36YB-BCO-LF	* CODG01P-PMS-LF	* IE-T5	* /RA-5V-1-2H	*
919					SUR-006-V	+			
920	470	5	4.03E-09	0.90791	IE-T5	* RA-ATW-11-11-30M	* RPS	* SLCC001A-ROO0105	*
921					SUR-001-A-V	+			
922	471	6	3.99E-09	0.90804	1EB236B-BCO-LF	* CODG01F-PLG-LF	* /CONT-LEAK	* IE-T1	*
923					RA-NONE	* SUR-021-R	+		
924	472	6	3.96E-09	0.90817	IE-T2	* OPFAILSMFW-BM	* RA-NONE	* RPS	*
925					RWCF004X-V00-CC	* SUR-001-A-V	+		
926	473	5	3.91E-09	0.90829	IE-T3	* OPFAIL-SLCOX-56M	* OPFAILSMFW-BM	* RPS	*
927					SUR-001-A-V	+			
928	475	6	3.90E-09	0.90842	1EB236B-BCO-LF	* CONT-LEAK	* IE-T4	* RA-NONE	*
929					RHR02AA-PMS-LF	* SUR-003-L	+		
930	474	6	3.90E-09	0.90854	1EB236B-BCO-LF	* CODG01P-PMS-LF	* CONT-LEAK	* IE-T4	*
931					RA-NONE	* SUR-003-L	+		

932	476	6	3.89E-09	0.90867	1E32368-BCO-LF	* /CONT-LEAK	* 1E-14	* RA-NONE	*
933					RHR01AK-HTX-LFB	* SUR-021-R	*		*
934	483	7	3.84E-09	0.90879	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DOVB102X-BCO-LF	* DOVB202X-BCO-LF	*
935					1E-LOSP	* RA-8-1H	* RCICRMCOOL-FLAG	*	*
936	486	7	3.84E-09	0.90892	1E4327NY-R00-LFO	* AP039X2-R00-LFO	* DOVB101X-BCO-LF	* DOVB201X-BCO-LF	*
937					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
938	488	7	3.84E-09	0.90904	1E4327NY-R00-LFO	* AP040X2-R00-LFO	* DOVB101X-BCO-LF	* DOVB201X-BCO-LF	*
939					1E-LOSP	* RA-8-1H	* RCICRMCOOL-FLAG	*	*
940	484	7	3.84E-09	0.90916	1E4327NY-R00-LFO	* AP040X2-R00-LFO	* DOVB102X-BCO-LF	* DOVB202X-BCO-LF	*
941					1E-LOSP	* RA-8-1H	* RCICRMCOOL-FLAG	*	*
942	81	7	3.84E-09	0.90929	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DOVB101X-BCO-LF	* DOVB201X-BCO-LF	*
943					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
944	480	7	3.84E-09	0.90941	1E4327NY-R00-LFO	* AP039X2-R00-LFO	* DOVB101X-BCO-LF	* DOVB201X-BCO-LF	*
945					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
946	485	7	3.84E-09	0.90953	1E4327NX-R00-LFO	* AP039X2-R00-LFO	* DOVB101X-BCO-LF	* DOVB201X-BCO-LF	*
947					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
948	479	7	3.84E-09	0.90966	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DOVB101X-BCO-LF	* DOVB201X-BCO-LF	*
949					1E-LOSP	* RA-8-1H	* RCICRMCOOL-FLAG	*	*
950	477	7	3.84E-09	0.90978	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DOVB101X-BCO-LF	* DOVB201X-BCO-LF	*
951					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
952	487	7	3.84E-09	0.90990	1E4327NX-R00-LFO	* AP039X2-R00-LFO	* DOVB102X-BCO-LF	* DOVB202X-BCO-LF	*
953					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
954	478	7	3.84E-09	0.91003	1E4327NY-R00-LFO	* AP039X2-R00-LFO	* DOVB102X-BCO-LF	* DOVB202X-BCO-LF	*
955					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
956	482	7	3.84E-09	0.91015	1E4327NY-R00-LFO	* AP040X2-R00-LFO	* DOVB102Y-BCO-LF	* DOVB202X-BCO-LF	*
957					1E-LOSP	* OPFAILS-REOPEN	* RA-8-1H	*	*
958	489	8	3.84E-09	0.91027	DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	* LPCI-BETA	*
959					LPCI-PMS-CM	* RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	*
960	496	6	3.81E-09	0.91040	AP040X2-R00-LFO	* DG0-GEN-LF-FTR	* DG2B-G-UUM	* 1E-LOSP	*
961					RA-8-10H	* RA-9-2H	* DG2A-G-UUM	* 1E-LOSP	*
962	495	6	3.81E-09	0.91052	1E4327NX-R00-LFO	* DG0-GEN-LF-FTR	* DG2A-G-UUM	* 1E-LOSP	*
963					RA-8-10H	* RA-9-2H	* DG2B-G-UUM	* 1E-LOSP	*
964	494	7	3.81E-09	0.91064	AP039X2-R00-LFO	* DG0-GEN-LF-FTR	* RA-9-2H	* 1E-LOSP	*
965					OPFAILS-REOPEN	* RA-8-10H	* DG2B-G-UUM	* 1E-LOSP	*
966	492	6	3.81E-09	0.91077	1E4327NY-R00-LFO	* DG0-GEN-LF-FTR	* DG2A-G-UUM	* 1E-LOSP	*
967					RA-8-10H	* RA-9-2H	* DG2B-G-UUM	* 1E-LOSP	*
968	493	7	3.81E-09	0.91089	AP040X2-R00-LFO	* DG0-GEN-LF-FTR	* DG2B-G-UUM	* 1E-LOSP	*
969					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	* 1E-LOSP	*
970	491	7	3.81E-09	0.91101	AP040X2-R00-LFO	* DG0-GEN-LF-FTR	* DG2B-G-UUM	* 1E-LOSP	*
971					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	* 1E-LOSP	*
972	490	6	3.81E-09	0.91113	AP039X2-R00-LFO	* DG0-GEN-LF-FTR	* DG2B-G-UUM	* 1E-LOSP	*
973					RA-8-10H	* RA-9-2H	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
974	504	7	3.81E-09	0.91126	1E4327NY-R00-LFO	* DG0-G-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
975					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	* 1E-LOSP	*
976	505	7	3.81E-09	0.91138	AP039X2-R00-LFO	* DG0-G-UUM	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
977					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	* 1E-LOSP	*
978	502	6	3.81E-09	0.91150	1E4327NX-R00-LFO	* DG0-G-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
979					RA-8-10H	* RA-9-2H	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
980	501	7	3.81E-09	0.91162	AP040X2-R00-LFO	* DG0-G-L	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
981					OPFAILS-REOPEN	* RA-8-1	* RA-9-2H	* 1E-LOSP	*
982	499	7	3.81E-09	0.91175	AP040X2-R00-LFO	* DG0-G-UUM	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
983					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	* 1E-LOSP	*

984	503	6	3.81E-09	0.91187	AP039K2-R00-LFO	* D60-G-UUM	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
985	497	6	3.81E-09	0.91199	RA-B-10H	* RA-9-2H	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
986	500	7	3.81E-09	0.91211	AP04DX2-R00-LFO	* D60-G-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
987	498	6	3.81E-09	0.91224	RA-B-10H	* RA-9-2H	* RC1CPMCOOL-FLAG	* 1E-LOSP	*
988	510	5	3.78E-09	0.91236	1E4327NX-R00-LFO	* D60-G-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
989	511	5	3.78E-09	0.91248	RA-B-10H	* RA-9-2H	* RA-MSLDV-1-2H	* RHRC02AA-P-NUUM	*
990	509	7	3.78E-09	0.91260	1E4327NY-R00-LFO	* D60-G-UUM	* 1E-T102	* RA-MSLDV-1-2H	*
991	507	5	3.78E-09	0.91272	RA-B-10H	* RA-9-2H	* 1E-T101	* RA-NONE	*
992	506	5	3.78E-09	0.91284	CONT-LEAK	* CONT-LEAK	* OPFAIL-VENT-2H	* RA-NONE	*
993	508	7	3.78E-09	0.91297	SUR-003-L	* SUR-003-L	* SUR-003-L	* RA-MSLDV-1-2H	*
994	516	6	3.78E-09	0.91309	C2D601P-P-UUM	* CONT-LEAK	* LCSC002A-P-UUM	* RA-MSLDV-1-2H	*
995	514	6	3.78E-09	0.91321	SUR-003-L	* SUR-003-L	* RA-MSLDV-1-2H	* RHRC02BB-P-NUUM	*
996	513	5	3.78E-09	0.91333	CONT-LEAK	* CONT-LEAK	* OPFAIL-VENT-2H	* RA-NONE	*
997	515	5	3.78E-09	0.91345	SUR-003-L	* SUR-003-L	* SUR-003-L	* RA-MSLDV-1-2H	*
998	512	6	3.78E-09	0.91357	RHRC02AA-P-UUM	* SC5F06AA-DENER	* RA-MSLDV-1-2H	* RHRC02AA-P-UUM	*
999	521	6	3.72E-09	0.91369	CONT-LEAK	* CONT-LEAK	* LCSC002A-P-UUM	* OPFAIL-VENT-2H	*
1000	520	6	3.72E-09	0.91381	CONT-LEAK	* SUR-003-L	* RA-7-1-27H	* RHRC003B-P-UUM	*
1001	522	6	3.72E-09	0.91393	SUR-003-L	* SUR-003-L	* 1E-T102	* RA-MSLDV-1-2H	*
1002	517	5	3.72E-09	0.91405	CDD601P-P-UUM	* CONT-LEAK	* 1E-T101	* RA-MSLDV-1-2H	*
1003	518	6	3.72E-09	0.91417	SUR-003-L	* SUR-003-L	* RA-MSLDV-1-2H	* RHRC02BB-P-UUM	*
1004	519	6	3.72E-09	0.91429	CONT-LEAK	* CONT-LEAK	* EE-MDC-IAS-CB-R	* 1E-T9A	*
1005	524	7	3.68E-09	0.91441	SC5F06BB-DENER	* SC5F06AA-DENER	* EE-MDC-IAS-AB-R	* 1E-T101	*
1006	523	7	3.68E-09	0.91453	DGCOOL-BETA	* DGCOOL-PMS-CM	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1007	525	5	3.66E-09	0.91465	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1008	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1009	530	5	3.65E-09	0.91488	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1010	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1011	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1012	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1013	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1014	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1015	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1016	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1017	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1018	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1019	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1020	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1021	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1022	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1023	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1024	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1025	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1026	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1027	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1028	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1029	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1030	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1031	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1032	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1033	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*
1034	529	5	3.65E-09	0.91476	DGCOOL-BETA	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T9A	*
1035	529	5	3.65E-09	0.91476	g1	* RA-NONE	* EE-MDC-IAS-AB-R	* 1E-T101	*

1036	528	5	3.65E-09	0.91500	CONT-LEAK	* IE-T102	* LAK9ACP3-LFOO	* RA-1-1-27H	*
1037					SUR-003-L	+			
1038	526	5	3.65E-09	0.91512	CONT-LEAK	* IE-T101	* LAK9BCP3-LFOU	* RA-1-1-27H	*
1039					SUR-003-L	+			
1040	527	5	3.65E-09	0.91523	CONT-LEAK	* IE-T101	* LAK18BCP1-LFOO	* RA-1-1-27H	*
1041					SUR-003-L	+			
1042	535	7	3.62E-09	0.91535	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* HF04CSC-QDC-LF	* IE-LOSP	*
1043					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1044	536	7	3.62E-09	0.91547	DG0-G-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1045					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1046	534	7	3.62E-09	0.91558	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-G-UUM	* IE-LOSP	*
1047					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1048	532	6	3.62E-09	0.91570	DG0-G-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1049					RA-8-10H	* RA-9-2H	+		
1050	533	6	3.62E-09	0.91582	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-G-UUM	* IE-LOSP	*
1051					RA-8-10H	* RA-9-2H	+		
1052	531	6	3.62E-09	0.91593	DG0-GEN-LF-FTR	* DG2A-G-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1053					RA-8-10H	* RA-9-2H	+		
1054	539	6	3.60E-09	0.91605	DG0-GEN-CC-FTS	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1055					RA-8-8H	* RA-9-8H	+		
1056	538	6	3.60E-09	0.91616	DG0-GEN-LF-FTS	* DG2A-GEN-CC-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1057					RA-8-8H	* RA-9-8H	+		
1058	537	6	3.60E-09	0.91628	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DG2B-GEN-CC-FTS	* IE-LOSP	*
1059					RA-8-8H	* RA-9-8H	+		
1060	540	7	3.52E-09	0.91639	DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* EE-C2DG01F-PLG	* IE-LOSP	*
1061					OPFAIL-REOPN-20M	* RA-8-1H	* RA-9-1H	+	
1062	541	6	3.44E-09	0.91650	DG-FTS-BETA	* DGX-GEN-CH-FTS	* JT-T1	* RA-15-8H	*
1063					RA-8-8H	* RLOSP	+		
1064	544	6	3.44E-09	0.91661	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* RA-NONE	*
1065					RHRB01AA-B00-LF	* SUR-021-R	+		
1066	543	6	3.44E-09	0.91672	1EB236B-BCO-LF	* /CONT-LEAK	* CSCF068A-VCC-LF	* IE-T1	*
1067					RA-NONE	* SUR-021-R	+		
1068	542	7	3.44E-09	0.91684	1EB236B-BCO-LF	* /CONT-LEAK	* FLOW-RHR-A3	* IE-T1	*
1069					RA-NONE	* RHRF48AA-V00-LF	* SUR-021-R	+	
1070	548	7	3.40E-09	0.91694	/CONT-LEAK	* IE-T101	* LAK14BRC-RCO-LFO	* NOFLOW-CSS-B7A	*
1071					NOFLOW-SPC-B5X	* RA-2-11-27H	* SUR-021-R	+	
1072	547	7	3.40E-09	0.91705	/CONT-LEAK	* IE-T102	* LAK14ARC-RCO-LFO	* NOFLOW-CSS-A7A	*
1073					NOFLOW-SPC-A5X	* RA-2-11-27H	* SUR-021-R	+	
1074	546	6	3.40E-09	0.91716	/CONT-LEAK	* FLOW-RHR-A3	* IE-T1J2	* LAK93ARC-ROO-LFO	*
1075					RA-2-11-27H	* SUR-021-R	+		
1076	545	6	3.40E-09	0.91727	/CONT-LEAK	* FLOW-RHR-B3	* IE-T101	* LAK93BRC-ROO-LFO	*
1077					RA-2-11-27H	* SUR-021-R	+		
1078	555	7	3.35E-09	0.91738	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* DGHV01YC-MCC-LF	* IE-LOSP	*
1079					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
1080	557	7	3.35E-09	0.91749	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V10YB-M00-LF	* IE-LOSP	*
1081					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
1082	556	7	3.35E-09	0.91760	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* DGHV03YC-MCC-LF	* IE-LOSP	*
1083					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
1084	554	7	3.35E-09	0.91770	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V10YB-M00-LF	* IE-LOSP	*
1085					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
1086	552	7	3.35E-09	0.91781	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* DG2V09YB-MCC-LF	* IE-LOSP	*
1087					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	

1088	553	7	3.35E-09	0.91792	1E4327NK-R00-LFO	DG0-GEN-LF-FTS	DG2V11Y8-MCC-LF	* IE-LOSP	*
1089					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	*	*
1090	551	7	3.35E-09	0.91803	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2V09Y8-MCC-LF	* IE-LOSP	*
1091					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	*	*
1092	550	7	3.35E-09	0.91813	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2V11Y8-MCC-LF	* IE-LOSP	*
1093					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	*	*
1094	549	7	3.35E-09	0.91824	AP040K2-R00-LFO	DG0-GEN-LF-FTS	DGHV02YC-M00-LF	* IE-LOSP	*
1095					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	*	*
1096	560	7	3.35E-09	0.91835	AP040K2-R00-LFO	DG0V01YA-MCC-LF	D42B-GEN-LF-FTS	* IE-LOSP	*
1097					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	*	*
1098	559	7	3.35E-09	0.91846	AP040K2-R00-LFO	DG0V02YA-M00-LF	D42B-GEN-LF-FTS	* IE-LOSP	*
1099					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	*	*
1100	558	7	3.35E-09	0.91857	AP040K2-R00-LFO	DG0V03YA-MCC-LF	DG2B-GEN-LF-FTS	* IE-LOSP	*
1101					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	*	*
1102	561	5	3.33E-09	0.91867	IE-T2	OPFAIL-SLCOX-56M	OPFAILSMFW-8M	* RPS	*
1103					SUR-001-A-V				
1104	562	5	3.30E-09	0.91878	DGCOOL-BETA	DGCOOL-PMS-CM	IE-T101	* RA-3-12-2H	*
1105					RCICRMCOOL-FLAG				
1106	563	6	3.27E-09	0.91888	1E82368-BCO-LF	CC800G1P-BCO-LF	CONT-LEAK	* IE-T1	*
1107					RA-NONE	SUR-007-L			
1108	565	6	3.18E-09	0.91899	CSCD300A-PLG-LF	IE-T5	/OPFAIL-VENT-2H	* Q1	*
1109					RHRH01BX-HTX-LFB	SUR-007-V			
1110	564	6	3.18E-09	0.91909	CSCD300B-PLG-LF	IE-T5	/OPFAIL-VENT-2H	* Q1	*
1111					RHRH01AX-HTX-LFB	SUR-007-V			
1112	568	5	3.15E-09	0.91919	CONT-LEAK	IE-T101	RA-MSLDV-1-2H	* SEVY03CB-PMS-CC	*
1113					SUR-003-L				
1114	567	5	3.15E-09	0.91929	CONT-LEAK	IE-T101	RA-MSLDV-1-2H	* RHR801BB-800-CC	*
1115					SUR-003-L				
1116	566	5	3.15E-09	0.91939	CONT-LEAK	IE-T102	RA-MSLDV-1-2H	* RHR801AA-800-CC	*
1117					SUR-003-L				
1118	569	5	3.15E-09	0.91949	CONT-LEAK	IE-T102	NAVY01CA-FMS-CC	* RA-MSLDV-1-2H	*
1119					SUR-003-L				
1120	570	5	3.15E-09	0.91959	C2DG01P-PMS-CC	CONT-LEAK	IE-T101	* RA-MSLDV-1-2H	*
1121					SUR-003-L				
1122	571	5	3.15E-09	0.91970	C0DG01P-PMS-CC	CONT-LEAK	IE-T102	* RA-MSLDV-1-2H	*
1123					SUR-003-L				
1124	572	6	3.13E-09	0.91980	IE-T4	OPFAILSMFW-8M	RA-NONE	* RPS	*
1125					RUCF004X-V00-CC	SUR-001-A-V			
1126	573	6	3.06E-09	0.91990	1E82368-BCO-LF	C0DG01F-PLG-LF	CONT-LEAK	* IE-T3	*
1127					RA-NONE	SUR-003-L			
1128	574	6	3.01E-09	0.91999	1E82368-BCD-LF	/CONT-LEAK	IE-T5	* LGSC002A-P-UM	*
1129					RA-NONE	SUR-022-R			
1130	575	7	3.01E-09	0.92009	1E82368-BCD-LF	/CONT-LEAK	IE-T5	* RA-NONE	*
1131					RHR02AA-P-UM	SCSF06AA-DENER	SUR-022-R	*	*
1132	576	6	3.01E-09	0.92019	1E82368-BCO-LF	C0DG01F-PLG-LF	CONT-LEAK	* IE-T5	*
1133					RA-NONE	SUR-003-L			
1134	584	7	2.94E-09	0.92028	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTS	* IE-LOSP	*
1135					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	*	*
1136	581	6	2.94E-09	0.92037	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	* IE-LOSP	*
1137					RA-8-10H	RA-9-2H			
1138	580	6	2.94E-09	0.92047	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-CC-FTS	* IE-LOSP	*
1139					RA-8-10H	RA-9-2H			



1140	583	6	2.94E-09	0.92056	DG0-GEN-CC-FTS	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1141					RA-B-10H	*	RA-9-2H	+				
1142	577	6	2.94E-09	0.92066	DG0-GEN-LF-FTR	*	DG2A-GEN-CC-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1143					RA-B-10H	*	RA-9-2H	+				
1144	579	6	2.94E-09	0.92075	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-CC-FTS	*	IE-LOSP	*
1145					RA-B-10H	*	RA-9-2H	+				
1146	578	6	2.94E-09	0.92085	DG0-GEN-LF-FTS	*	DG2A-GEN-CC-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*
1147					RA-B-10H	*	RA-9-2H	+				
1148	582	7	2.94E-09	0.92094	DG0-GEN-CC-FTS	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1149					RA-B-10H	*	RA-9-2H	+	RC1CRMCOOL-FLAG	+		
1150	588	7	2.92E-09	0.92104	DG0-GEN-LF-FTS	*	DG2A-GEN-CC-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1151					RA-B-10H	*	RA-9-2H	+	RC1CRMCOOL-FLAG	+		
1152	585	6	2.92E-09	0.92113	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-CC-FTR	*	IE-LOSP	*
1153					RA-B-10H	*	RA-9-2H	+				
1154	587	6	2.92E-09	0.92122	DG0-GEN-LF-FTS	*	DG2A-GEN-CC-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1155					RA-B-10H	*	RA-9-2H	+				
1156	586	6	2.92E-09	0.92132	DG0-GEN-CC-FTR	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1157					RA-B-10H	*	RA-9-2H	+				
1158	589	6	2.92E-09	0.92141	C0D001P-P-UUM	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1159					RA-B-8H	*	RA-9-8H	+				
1160	592	6	2.92E-09	0.92151	C2D001P-P-UUM	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1161					RA-B-8H	*	RA-9-8H	+				
1162	591	6	2.92E-09	0.92160	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	HCSC001C-P-UUM	*	IE-LOSP	*
1163					RA-B-8H	*	RA-9-8H	+				
1164	590	6	2.92E-09	0.92169	C5CC002-P-UUM	*	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*
1165					RA-B-8H	*	RA-9-8H	+				
1166	594	5	2.89E-09	0.92179	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	IE-T9A	*	OPFAIL-VENT-6H	*
1167					RA-NONE	+						
1168	593	4	2.89E-09	0.92188	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	IE-T101	*	RA-MSLDV-1-2H	+
1169	595	6	2.88E-09	0.92197	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V01YA-MCC-LF	*	IE-LOSP	*
1170					RA-B-1H	*	RC1CRMCOOL-FLAG	+				
1171	596	6	2.88E-09	0.92206	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V02YA-MOO-LF	*	IE-LOSP	*
1172					RA-B-1H	*	RC1CRMCOOL-FLAG	+				
1173	597	6	2.88E-09	0.92216	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V03YA-MCC-LF	*	IE-LOSP	*
1174					RA-B-1H	*	RC1CRMCOOL-FLAG	+				
1175	598	6	2.88E-09	0.92225	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V02YA-MOO-LF	*	IE-LOSP	*
1176					RA-B-1H	*	RC1CRMCOOL-FLAG	+				
1177	599	5	2.88E-09	0.92234	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V03YA-MCC-LF	*	IE-LOSP	*
1178					RA-B-1H	*	RC1CRMCOOL-FLAG	+				
1179	600	6	2.88E-09	0.92244	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V01YA-MCC-LF	*	IE-LOSP	*
1180					RA-B-1H	*	RC1CRMCOOL-FLAG	+				
1181	601	6	2.88E-09	0.92253	CONT-LEAK	*	DG0-GEN-LF-FTS	*	IE-LOSP	*	RA-NONE	*
1182					RPS	*	SUR-002-A-L	+				
1183	605	6	2.88E-09	0.92262	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2A-GEN-CC-FTS	*	IE-LOSP	*
1184					CA-B-8H	*	RA-9-8H	+				
1185	604	6	2.88E-09	0.92271	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-CC-FTS	*	IE-LOSP	*
1186					RA-B-8H	*	RA-9-8H	+				
1187	603	6	2.88E-09	0.92281	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-CC-FTS	*	IE-LOSP	*
1188					RA-B-8H	*	RA-9-8H	+				
1189	602	6	2.88E-09	0.92290	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2A-GEN-CC-FTS	*	IE-LOSP	*
1190					RA-B-8H	*	RA-9-8H	+				
1191	609	6	2.88E-09	0.92299	1E4327NY-ROO-LFO	*	DG0-GEN-CC-FTS	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*
1192					RA-B-8H	*	RA-9-8H	+				

1193	608	6	2.88E-09	0.92308	AF040X2-R00-LFO	DG0-GEN-CC-FTS	DG0-GEN-LF-FTS	IE-LOSP	*
1194					RA-8-BH	RA-9-BH			*
1195	607	6	2.88E-09	0.92318	1E4327NY-R00-LFO	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTS	IE-LOSP	*
1196					RA-8-BH	RA-9-BH			*
1197	606	6	2.88E-09	0.92327	AF039X2-R00-LFO	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTS	IE-LOSP	*
1198					RA-8-BH	RA-9-BH			*
1199	610	6	2.87E-09	0.92336	DG-FIS-BETA	DGX-GEN-DM-FTS	IE-LOSP	QT	*
1200					RA-15-BH	RA-8-BH			*
1201	611	7	2.83E-09	0.92345	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V2FX-KLM-LFB	IE-LOSP	*
1202					OPFAIL-REOPN-20M	RA-8-1H	RA-9-1H		*
1203	612	7	2.83E-09	0.92354	C20G01F-PLG-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP	*
1204					OPFAIL-REOPN-20M	RA-8-1H	RA-9-1H		*
1205	614	7	2.83E-09	0.92363	IE-13	OPFAILSMFN-BM	RA-NONE	RPS	*
1206					SAK2ARCK-RCO-LFO	SAK2BRCK-RCO-LFO	SUR-001-A-V		*
1207	613	7	2.83E-09	0.92373	IE-13	OPFAILSMFN-BM	RA-ATMS-12-3-10M	RPS	*
1208					SAK5ARCK-RCO-LFO	SAK5BRCK-RCO-LFO	SUR-001-A-V		*
1209	616	7	2.81E-09	0.92382	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	EE-C2D001F-PLG	IE-LOSP	*
1210					OPFAIL-REOPN-20M	RA-8-1H	RA-9-1H		*
1211	615	7	2.81E-09	0.92391	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	EE-C2D001F-PLG	IE-LOSP	*
1212					OPFAIL-REOPN-20M	RA-8-1H	RA-9-1H		*
1213	619	6	2.80E-09	0.92400	1E8236B-BCC-LF	/CONT-LEAK	IE-T3	LCSC002A-P-UUM	*
1214					RA-NONE	SUR-021-R			*
1215	618	6	2.80E-09	0.92409	1E8236B-BCC-LF	/CONT-LEAK	IE-T3	RA-NONE	*
1216					PHRC02AA-P-UUM	SUR-021-R			*
1217	620	6	2.80E-09	0.92418	1E8236B-BCC-LF	C00G01P-P-UUM	/CONT-LEAK	IE-T3	*
1218					RA-NONE	SUR-021-R			*
1219	617	7	2.80E-09	0.92427	1E8236B-BCC-LF	/CONT-LEAK	IE-T3	RA-NONE	*
1220					PHRC02AA-P-UUM	SCSF06AA-DENER	SUR-021-R		*
1221	632	6	2.80E-09	0.92436	1E8122X-BCC	1E8236B-BCC-LF	CONT-LEAK	IE-T1	*
1222					RA-NONE	SUR-003-L			*
1223	633	6	2.80E-09	0.92445	1E8235A-BCC-LF	1E836Y1X-BCC-LF	CONT-LEAK	IE-T1	*
1224					RA-NONE	SUR-003-L			*
1225	630	6	2.80E-09	0.92454	1E8236B-BCC-LF	1E835Y2X-BCC-LF	CONT-LEAK	IE-T1	*
1226					RA-NONE	SUR-003-L			*
1227	629	6	2.80E-09	0.92463	1E8211Y-BCC-LF	1E8236B-BCC-LF	CONT-LEAK	IE-T1	*
1228					RA-NONE	SUR-003-L			*
1229	628	6	2.80E-09	0.92472	1E8235A-BCC-LF	1E82Y2X-BCC	CONT-LEAK	IE-T1	*
1230					RA-NONE	SUR-003-L			*
1231	631	6	2.80E-09	0.92481	1E8235XA-BCC-LF	1E8236B-BCC-LF	CONT-LEAK	IE-T1	*
1232					RA-NONE	SUR-003-L			*
1233	626	6	2.80E-09	0.92490	1E8235A-BCC-LF	1E836X8-BCC-LF	CONT-LEAK	IE-T1	*
1234					RA-NONE	SUR-003-L			*
1235	625	6	2.80E-09	0.92499	1E8235YA-BCC-LF	1E8236B-BCC-LF	CONT-LEAK	IE-T1	*
1236					RA-NONE	SUR-003-L			*
1237	624	6	2.80E-09	0.92508	1E835Y2X-BCC-LF	1E836Y8-BCC-LF	CONT-LEAK	IE-T1	*
1238					RA-NONE	SUR-003-L			*
1239	623	6	2.80E-09	0.92517	1E8235XA-BCC-LF	1E836Y8-BCC-LF	CONT-LEAK	IE-T1	*
1240					RA-NONE	SUR-003-L			*
1241	621	6	2.80E-09	0.92526	1E8235YA-BCC-LF	1E836Y8-BCC-LF	CONT-LEAK	IE-T1	*
1242					RA-NONE	SUR-003-L			*
1243	627	6	2.80E-09	0.92535	1E8212Y-BCC-LF	1E8235A-BCC-LF	CONT-LEAK	IE-T1	*
1244					RA-NONE	SUR-003-L			*

1245	..2	6	2.80E-09	0.92544	*EB235A-BCO-LF	* 1EB236B-BCO-LF	* CONT-LEAK	* IE-T1	*
1246					RA-NONE	* SUR-003-L	+		
1247	635	6	2.78E-09	0.92553	CONT-LEAK	* FLOW-RHR-B3	* IE-T101	* LAK93ACP3-LFCC	*
1248					RA-2-11-27H	* SUR-003-L	+		
1249	634	6	2.78E-09	0.92562	CONT-LEAK	* FLOW-RHR-A3	* IE-T102	* LAK93ACP3-LFCC	*
1250					RA-2-11-27H	* SUR-003-L	+		
1251	637	8	2.77E-09	0.92571	AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1252					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
1253	636	8	2.77E-09	0.92579	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1254					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
1255	633	8	2.77E-09	0.92588	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1256					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+
1257	639	8	2.75E-09	0.92597	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-T1	*
1258					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	* RLOSP	+
1259	641	7	2.64E-09	0.92606	1EB236B-BCO-LF	* CONT-LEAK	* FLOW-RHR-A3	* IE-T3	*
1260					RA-NONE	* RHRF4BAA-VOO-LF	* SUR-003-L	+	
1261	640	6	2.64E-09	0.92614	1EB236B-BCO-LF	* CONT-LEAK	* CSCF068A-VCC-LF	* IE-T3	*
1262					RA-NONE	* SUR-003-L	+		
1263	642	6	2.64E-09	0.92623	1EB236B-BCO-LF	* CONT-LEAK	* IE-T3	* RA-NONE	*
1264					RHRB01AA-BOO-LF	* SUR-003-L	+		
1265	643	5	2.63E-09	0.92631	IE-T4	* OPFAIL-SLCOX-56M	* OPFAILSMFW-8M	* RPS	*
1266					SUR-001-A-V	+			
1267	644	6	2.61E-09	0.92640	1EB236B-BCO-LF	* CDDG01F-PLG-LF	* CONT-LEAK	* IE-T2	*
1268					RA-NONE	* SUR-003-L	+		
1269	647	6	2.59E-09	0.92648	1EB236B-BCO-LF	* CONT-LEAK	* CSCF068A-VCC-LF	* IE-T5	*
1270					RA-NONE	* SUR-003-L	+		
1271	645	7	2.59E-09	0.92656	1EB236B-BCO-LF	* CONT-LEAK	* FLOW-RHR-A3	* IE-T5	*
1272					RA-NONE	* RHRF4BAA-VOO-LF	* SUR-003-L	+	
1273	646	6	2.59E-09	0.92665	1EB236B-BCO-LF	* CONT-LEAK	* IE-T5	* RA-NONE	*
1274					RHRB01AA-BOO-LF	* SUR-003-L	+		
1275	648	6	2.58E-09	0.92673	CONT-LEAK	* EE-MOP-PSW-BC-9	* IE-T101	* RA-1-1-27H	*
1276					RHRH01BX-HTX-LFB	* SUR-002-L	+		
1277	649	7	2.51E-09	0.92681	DGO-GEN-LF-FTS	* DG2A-G-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1278					RA-8-1H	* RA-9-1H	* RCIC001X-TDP-LF	+	
1279	650	7	2.51E-09	0.92689	DGO-G-UUM	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1280					RA-8-1H	* RA-9-1H	* RCIC001X-TDP-LF	+	
1281	651	7	2.51E-09	0.92697	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
1282					RA-8-1H	* RA-9-1H	* RCIC001X-TDP-LF	+	
1283	653	6	2.43E-09	0.92705	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	* RA-8-BH	*
1284					RA-9-8H	* SWVY02CC-FMS-CC	+		
1285	652	6	2.43E-09	0.92713	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	* RA-8-BH	*
1286					RA-9-8H	* SEVY03CB-FMS-CC	+		
1287	672	6	2.43E-09	0.92721	1EB432C-BCC-CC	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	*
1288					RA-8-BH	* RA-9-8H	+		
1289	669	6	2.43E-09	0.92728	1EB233A-BCC-AS	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1290					RA-8-BH	* RA-9-8H	+		
1291	668	6	2.43E-09	0.92736	1EB413A-BOO-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1292					RA-8-BH	* RA-9-8H	+		
1293	671	6	2.43E-09	0.92744	1EB412A-BCC-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1294					RA-8-BH	* RA-9-8H	+		
1295	664	6	2.43E-09	0.92752	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DHV-MOD-COM-CC	* IE-LOSP	*
1296					RA-8-BH	* RA-9-8H	+		

1297	670	6	2.43E-09	0.92760	C2DGD1P-PMS-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1298					RA-8-BH	* RA-9-BH	+		*
1299	666	6	2.43E-09	0.92767	DAV-MOD-COM-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1300					RA-8-BH	* RA-9-BH	+		*
1301	662	6	2.43E-09	0.92775	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DGHV01CC-FMS-CC	* IE-LOSP	*
1302					RA-8-BH	* RA-9-BH	+		*
1303	661	6	2.43E-09	0.92783	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* DG2V03CB-FMS-CC	* IE-LOSP	*
1304					RA-8-BH	* RA-9-BH	+		*
1305	660	6	2.43E-09	0.92791	CSCC002-PMS-CC	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	*
1306					RA-8-BH	* RA-9-BH	+		*
1307	663	6	2.43E-09	0.92799	DOV-MOD-COM-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1308					RA-8-BH	* RA-9-BH	+		*
1309	659	6	2.43E-09	0.92807	1EB425B-BCC-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1310					RA-8-BH	* RA-9-BH	+		*
1311	667	6	2.43E-09	0.92814	1EB422B-BCC-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1312					RA-8-BH	* RA-9-BH	+		*
1313	657	6	2.43E-09	0.92822	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* HCSC001C-PMS-CS	* IE-LOSP	*
1314					RA-8-BH	* RA-9-BH	+		*
1315	656	6	2.43E-09	0.92830	1EB433C-B00-CC	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	*
1316					RA-8-BH	* RA-9-BH	+		*
1317	665	6	2.43E-09	0.92838	DGOV01CA-FMS-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1318					RA-8-BH	* RA-9-BH	+		*
1319	655	6	2.43E-09	0.92846	C0DG01P-PMS-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1320					RA-8-BH	* RA-9-BH	+		*
1321	658	6	2.43E-09	0.92853	1EB234B-BCC-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1322					RA-8-BH	* RA-9-BH	+		*
1323	654	6	2.43E-09	0.92861	1EB423B-B00-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1324					RA-8-BH	* RA-9-BH	+		*
1325	673	5	2.42E-09	0.92869	IE-T5	* RA-NONE	* RPS	* 3LCF00BK-KGC-LF	*
1326					SUR-001-A-V	+			*
1327	675	7	2.41E-09	0.92877	IE-T2	* OPFAILSMFW-BM	* RA-NONE	* RPS	*
1328					SAK2ARCX-RCD-LFO	* SAK2BRCX-RCD-LFO	* SUR-001-A-V	+	*
1329	674	7	2.41E-09	0.92885	IE-T2	* OPFA FW-BM	* RA-ATWS-12-3-10M	* RPS	*
1330					SAK6ARCX-RCD-LFO	* SAK6BRCX-RCD-LFO	* SUR-001-A-V	+	*
1331	676	7	2.41E-09	0.92892	DGO-G-UUM	* DG2B-GEN-LF-FTS	* EE-C2DGO1F-PLG	* IE-LOSP	*
1332					RA-8-1H	* RA-9-1H	* RCICRMCCOL-FLAG	+	*
1333	677	7	2.41E-09	0.92900	DGO-GEN-LF-FTS	* DG2B-G-UUM	* EE-C2DGO1F-PLG	* IE-LOSP	*
1334					RA-8-1H	* RA-9-1H	* RCICRMCCOL-FLAG	+	*
1335	681	5	2.40E-09	0.92908	CONT-LEAK	* CSCF068B-VCC-CC	* IE-T101	* RA-2-11-27H	*
1336					SUR-003-L	+			*
1337	679	5	2.40E-09	0.92916	CONT-LEAK	* CSCF068A-VCC-CC	* IE-T102	* RA-2-11-27H	*
1338					SUR-003-L	+			*
1339	678	6	2.40E-09	0.92923	FLOW-LEAK	* FLOW-RHR-A3	* IE-T102	* RA-2-11-27H	*
1340					RIF48AA-V00-CC	* SUR-003-L	+		*
1341	680	6	2.40E-09	0.92931	CONT-LEAK	* FLOW-RHR-B3	* IE-T101	* RA-2-11-27H	*
1342					RIF48BB-V00-CC	* SUR-003-L	+		*
1343	683	7	2.39E-09	0.92939	B2J6B-BCO-LF	* /CONT-LEAK	* IE-T2	* RA-NONE	*
1344					RHRC2AA-P-UUM	* SCSP06AA-DENER	* SUR-021-R	+	*
1345	682	6	2.39E-09	0.92946	1EB2J6B-BCO-LF	* /CONT-LEAK	* IE-T2	* LCSC002A-P-UUM	*
1346					RA-NONE	* SUR-021-R	+		*
1347	688	7	2.38E-09	0.92944	CSCC002-P-UUM	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	*
1348					RA-8-10H	* RA-9-2	* RCICRMCCOL-FLAG	+	*

1349	687	7	2.38E-09	0.92962	C2DG01P-P-UUM	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1350					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1351	686	6	2.38E-09	0.92969	C2DG01P-P-UUM	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1352					RA-8-10H	* RA-9-2H	+		
1353	685	6	2.38E-09	0.92977	CSCC002-P-UUM	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1354					RA-8-10H	* RA-9-2H	+		
1355	684	6	2.38E-09	0.92985	C0DG01P-P-UUM	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1356					RA-8-10H	* RA-9-2H	+		
1357	696	6	2.38E-09	0.92992	DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP	* LCSC002A-P-UUM	*
1358					RA-8-10H	* RA-9-2H	+		
1359	695	7	2.38E-09	0.93000	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP	*
1360					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1361	693	7	2.38E-09	0.93008	C2DG01P-P-UUM	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1362					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1363	692	6	2.38E-09	0.93015	C0DG01P-P-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1364					RA-8-10H	* RA-9-2H	+		
1365	697	6	2.38E-09	0.93023	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP	*
1366					RA-8-10H	* RA-9-2H	+		
1367	698	6	2.38E-09	0.93031	DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	* LCSC002A-P-UUM	*
1368					RA-8-10H	* RA-9-2H	+		
1369	694	6	2.38E-09	0.93038	C2DG01P-P-UUM	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1370					RA-8-10H	* RA-9-2H	+		
1371	691	7	2.38E-09	0.93046	C0DG01P-P-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1372					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1373	690	6	2.38E-09	0.93054	CSCC002-P-UUM	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* IE-LOSP	*
1374					RA-8-10H	* RA-9-2H	+		
1375	689	6	2.38E-09	0.93061	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* HCSC001C-P-UUM	* IE-LOSP	*
1376					RA-8-10H	* RA-9-2H	+		
1377	703	6	2.35E-09	0.93069	AP040X2-ROO-LFO	* DGO-GEN-CC-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1378					RA-8-10H	* RA-9-2H	+		
1379	705	7	2.35E-09	0.93076	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP	*
1380					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	+	
1381	708	6	2.35E-09	0.93084	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP	*
1382					RA-8-10H	* RA-9-2H	+		
1383	709	6	2.35E-09	0.93091	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTS	* IE-LOSP	*
1384					RA-8-10H	* RA-9-2H	+		
1385	713	6	2.35E-09	0.93099	AP039X2-ROO-LFO	* DGO-GEN-CC-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1386					RA-8-10H	* RA-9-2H	+		
1387	711	7	2.35E-09	0.93107	AP040X2-ROO-LFO	* DGO-GEN-CC-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1388					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	+	
1389	712	6	2.35E-09	0.93114	1E4327NY-ROO-LFO	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1390					RA-8-10H	* RA-9-2H	+		
1391	714	7	2.35E-09	0.93122	AP039X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP	*
1392					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	+	
1393	707	7	2.35E-09	0.93129	AP039X2-ROO-LFO	* DGO-GEN-CC-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1394					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	+	
1395	710	7	2.35E-09	0.93137	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP	*
1396					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1397	706	7	2.35E-09	0.93144	1E4327NX-ROO-LFO	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1398					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1399	704	6	2.35E-09	0.93152	1E4327NY-ROO-LFO	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1400					RA-8-10H	* RA-9-2H	+		

1401	700	6	2.35E-09	0.93159	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTS	IE-LOSP	*
1402					RA-8-10H	RA-9-2H			*
1403	702	7	2.35E-09	0.93167	1E4327NY-R00-LFO	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
1404					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
1405	699	6	2.35E-09	0.93175	AP039X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-CC-FTS	IE-LOSP	*
1406					RA-8-10H	RA-9-2H			*
1407	701	7	2.35E-09	0.93182	AP040X2-R00-LFO	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
1408					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
1409	727	6	2.34E-09	0.93190	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	IE-LOSP	*
1410					RA-8-10H	RA-9-2H			*
1411	730	7	2.34E-09	0.93197	AP040X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
1412					OPFAILS-REOPEN	RA-8-10H	RA-9-2H		*
1413	728	6	2.34E-09	0.93205	1E4327NY-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTS	IE-LOSP	*
1414					RA-8-10H	RA-9-2H			*
1415	729	7	2.34E-09	0.93212	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTR	IE-LOSP	*
1416					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
1417	725	6	2.34E-09	0.93220	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTR	IE-LOSP	*
1418					RA-8-10H	RA-9-2H			*
1419	726	6	2.34E-09	0.93227	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	IE-LOSP	*
1420					RA-8-10H	RA-9-2H			*
1421	723	6	2.34E-09	0.93235	1E4327NY-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTS	IE-LOSP	*
1422					RA-8-10H	RA-9-2H			*
1423	721	7	2.34E-09	0.93242	AP040X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
1424					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
1425	724	6	2.34E-09	0.93250	AP040X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
1426					RA-8-10H	RA-9-2H			*
1427	717	6	2.34E-09	0.93257	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTR	IE-LOSP	*
1428					RA-8-10H	RA-9-2H			*
1429	715	6	2.34E-09	0.93265	AP039X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
1430					RA-8-10H	RA-9-2H			*
1431	719	7	2.34E-09	0.93272	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	IE-LOSP	*
1432					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
1433	716	7	2.34E-09	0.93280	AP039X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
1434					OPFAILS-REOPEN	RA-8-10H	RA-9-2H		*
1435	720	7	2.34E-09	0.93287	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTR	IE-LOSP	*
1436					OPFAILS-REOPEN	RA-8-10H	RA-9-2H		*
1437	718	7	2.34E-09	0.93295	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	IE-LOSP	*
1438					RA-8-10H	RA-9-2H	RC1CRMCOOL-FLAG		*
1439	722	7	2.34E-09	0.93302	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTR	IE-LOSP	*
1440					OPFAILS-REOPEN	RA-8-10H	RA-9-2H		*
1441	733	6	2.33E-09	0.93310	1EB336B-B00-LF	/CONT-LEAK	IE-T3	NWY01CA-FMS-CC	*
1442					RA-NONE	SUR-021-R			*
1443	732	6	2.33E-09	0.93317	1EB336B-B00-LF	C00G01P-FMS-CC	/CONT-LEAK	IE-T3	*
1444					RA-NONE	SUR-021-R			*
1445	731	6	2.33E-09	0.93325	1EB336B-B00-LF	/CONT-LEAK	IE-T3	RA-MONE	*
1446					PH801AA-B00-CC	SUR-021-R			*
1447	735	6	2.33E-09	0.93332	AP040X2-R00-LFO	DG0-GEN-LF-FTS	HCSC001C-P-UJM	IE-LOSP	*
1448					RA-8-8H	RA-9-8H			*
1449	734	6	2.33E-09	0.93340	AP039X2-R00-LFO	DG0-GEN-LF-FTS	HCSC001C-P-UJM	IE-LOSP	*
1450					RA-8-8H	RA-9-8H			*
1451	743	6	2.33E-09	0.93347	AP039X2-R00-LFO	ESCC002-P-UJM	DG0-GEN-LF-FTS	IE-LOSP	*
1452					RA-8-8H	RA-9-8H			*

1453	741	6	2.33E-09	0.93355	1E4327NY-ROO-LFO	*	CODG01P-P-UUM	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*
1454					RA-B-8H	*	RA-9-8H	+				
1455	740	6	2.33E-09	0.93363	AP040X2-ROO-LFO	*	CSCC002-P-UUM	*	DG0-GEN-LF-FTS	*	IE-LOSP	*
1456					RA-B-8H	*	RA-9-8H	+				
1457	739	6	2.33E-09	0.93370	AP039X2-ROO-LFO	*	CODG01P-P-UUM	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1458					RA-B-8H	*	RA-9-8H	+				
1459	737	6	2.33E-09	0.93378	1E4327NY-ROO-LFO	*	C2DG01P-P-UUM	*	DG0-GEN-LF-FTS	*	IE-LOSP	*
1460					RA-B-8H	*	RA-9-8H	+				
1461	742	6	2.33E-09	0.93385	AP040X2-ROO-LFO	*	CODG01P-P-UUM	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1462					RA-B-8H	*	RA-9-8H	+				
1463	738	6	2.33E-09	0.93393	1E4327NX-ROO-LFO	*	C2DG01P-P-UUM	*	DG0-GEN-LF-FTS	*	IE-LOSP	*
1464					RA-B-8H	*	RA-9-8H	+				
1465	736	6	2.33E-09	0.93400	1E4327NX-ROO-LFO	*	CODG01P-P-UUM	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*
1466					RA-B-8H	*	RA-9-8H	+				
1467	748	5	2.30E-09	0.93407	1E4327NY-ROO-LFO	*	AP039X2-ROO-LFO	*	IE-LOSP	*	LCSC002A-P-UL	*
1468					RA-B-10H	+						
1469	747	5	2.30E-09	0.93415	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	IE-LOSP	*	LCSC002A-P-UUM	*
1470					RA-B-10H	+						
1471	746	6	2.30E-09	0.93422	AP037X3-ROO-LFO	*	CONT-LEAK	*	IE-LOSP	*	RA-NONE	*
1472					RPS	*	SUR-002-A-L	+				
1473	745	5	2.30E-09	0.93430	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	IE-LOSP	*	LCSC002A-P-UUM	*
1474					RA-B-10H	+						
1475	744	5	2.30E-09	0.93437	1E4327NX-ROO-LFO	*	AP039X2-ROO-LFO	*	IE-LOSP	*	LCSC002A-P-UUM	*
1476					RA-B-10H	+						
1477	752	6	2.30E-09	0.93445	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-CC-FTS	*	IE-LOSP	*
1478					RA-B-8H	*	RA-9-8H	+				
1479	751	6	2.30E-09	0.93452	1E4327NX-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-CC-FTS	*	IE-LOSP	*
1480					RA-B-8H	*	RA-9-8H	+				
1481	750	6	2.30E-09	0.93459	1E4327NY-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-CC-FTS	*	IE-LOSP	*
1482					RA-B-8H	*	RA-9-8H	+				
1483	749	6	2.30E-09	0.93467	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-CC-FTS	*	IE-LOSP	*
1484					RA-B-8H	*	RA-9-8H	+				
1485	753	7	2.29E-09	0.93474	CONT-LEAK	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*	RA-B-27H	*
1486					RA-9-27H	*	RHRH01AX-HTX-LFB	*	SUR-002-L	+		
1487	754	7	2.29E-09	0.93481	CONT-LEAK	*	DG0-GEN-LF-FTS	*	IE-LOSP	*	RA-B-27H	*
1488					RA-9-27H	*	RHRH01BX-HTX-LFB	*	SUR-002-L	+		
1489	756	7	2.27E-09	0.93489	C2DG01P-PMS-LF	*	DG0-GEN-CC-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1490					RA-B-1H	*	RA-9-1H	*	RC1CRMCOOL-FLAG	+		
1491	755	7	2.27E-09	0.93496	C2DG01P-PMS-LF	*	DG0-GEN-LF-FTS	*	DG2B-GEN-CC-FTS	*	IE-LOSP	*
1492					RA-B-1H	*	RA-9-1H	*	RC1CRMCOOL-FLAG	+		
1493	757	6	2.27E-09	0.93503	1E8236B-B-UUM	*	CONT-LEAK	*	IE-T1	*	LAK10RCA-ROO-LFO	*
1494					RA-1-1-27H	*	SUR-003-L	+				
1495	758	6	2.27E-09	0.93511	1E36YB-V-UUM	*	CONT-LEAK	*	IE-T1	*	LAK18ARA-ROO-LFO	*
1496					RA-1-1-27H	*	SUR-003-L	+				
1497	766	6	2.27E-09	0.93518	1E41YA-V-UUM	*	CONT-LEAK	*	IE-T1	*	LAK9BR0B-ROO-LFO	*
1498					RA-1-1-27H	*	SUR-003-L	+				
1499	763	6	2.27E-09	0.93525	1E8235A-B-UUM	*	CONT-LEAK	*	IE-T1	*	LAK9BR0B-ROO-LFO	*
1500					RA-1-1-27H	*	SUR-003-L	+				
1501	759	6	2.27E-09	0.93533	1E8235A-B-UUM	*	CONT-LEAK	*	IE-T1	*	LAK18BRB-ROO-LFO	*
1502					RA-1-1-27H	*	SUR-003-L	+				
1503	761	6	2.27E-09	0.93540	1E42YB-V-UUM	*	CONT-LEAK	*	IE-T1	*	LAK9ARCA-ROO-LFO	*
1504					RA-1-1-27H	*	SUR-003-L	+				

1505	760	6	2.27E-09	0.93547	1E41YA-V-UUM	* CONT-LEAK	* IE-T1	* LAK1BBRB-ROO-LFO *
1506					RA-1-1-27H	* SUR-003-L	+	
1507	764	6	2.27E-09	0.93554	1E42YB-V-UUM	* CONT-LEAK	* IE-T1	* LAK1BARA-ROO-LFO *
1508					RA-1-1-27H	* SUR-003-L	+	
1509	765	6	2.27E-09	0.93562	1EB236B-B-UUM	* CONT-LEAK	* IE-T1	* LAK1BARA-ROO-LFO *
1510					RA-1-1-27H	* SUR-003-L	+	
1511	767	6	2.27E-09	0.93569	1EB236B-B-UUM	* CONT-LEAK	* IE-T1	* LAK9ARCA-ROO-LFO *
1512					RA-1-1-27H	* SUR-003-L	+	
1513	762	6	2.27E-09	0.93576	1E42YB-V-UUM	* CONT-LEAK	* IE-T1	* LAK1ORCA-ROO-LFO *
1514					RA-1-1-27H	* SUR-003-L	+	
1515	768	7	2.27E-09	0.93584	1E4327WX-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V02FX-KLN-LFB	* IE-LOSP *
1516					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	+
1517	769	7	2.27E-09	0.93591	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V02FX-KLN-LFB	* IE-LOSP *
1518					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	+
1519	770	7	2.27E-09	0.93598	1E4327NX-ROO-LFO	* C2DGO1F-PLG-LF	* DGO-GEN-LF-FTS	* IE-LOSP *
1520					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	+
1521	771	7	2.27E-09	0.93605	1E4327NY-ROO-LFO	* C2DGO1F-PLG-LF	* DGO-GEN-LF-FTS	* IE-LOSP *
1522					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	+
1523	773	6	2.25E-09	0.93613	1EB236B-BCO-LF	* CONT-LEAK	* CSCF068A-VCC-LF	* IE-T2 *
1524					RA-NONE	* SUR-003-L	+	
1525	774	6	2.25E-09	0.93620	1EB236B-BCO-LF	* CONT-LEAK	* IE-T2	* RA-NONE *
1526					RHRB01AA-BOO-LF	* SUR-003-L	+	
1527	772	7	2.25E-09	0.93627	1EB236B-BCO-LF	* CONT-LEAK	* FLOW-RHR-A3	* IE-T2 *
1528					RA-NONE	* RHRF48AA-VOO-LF	* SUR-003-L	+
1529	778	7	2.23E-09	0.93634	DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP *
1530					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+
1531	776	6	2.23E-09	0.93641	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP *
1532					RA-B-10H	* RA-9-2H	+	
1533	777	6	2.23E-09	0.93649	DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP *
1534					RA-B-10H	* RA-9-2H	+	
1535	775	6	2.23E-09	0.93656	DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP *
1536					RA-B-10H	* RA-9-2H	+	
1537	779	7	2.23E-09	0.93663	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP *
1538					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+
1539	780	6	2.22E-09	0.93670	DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP *
1540					RA-B-10H	* RA-9-2H	+	
1541	781	6	2.22E-09	0.93677	DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP *
1542					RA-B-10H	* RA-9-2H	+	
1543	782	7	2.22E-09	0.93684	DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP *
1544					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+
1545	787	6	2.22E-09	0.93692	DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP *
1546					RA-B-10H	* RA-9-2H	+	
1547	788	6	2.22E-09	0.93699	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTR	* IE-LOSP *
1548					RA-B-10H	* RA-9-2H	+	
1549	784	6	2.22E-09	0.93706	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* DG2B-GEN-CC-FTR	* IE-LOSP *
1550					RA-B-10H	* RA-9-2H	+	
1551	783	7	2.22E-09	0.93713	DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP *
1552					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+
1553	785	7	2.22E-09	0.93720	DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP *
1554					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+
1555	786	7	2.22E-09	0.93727	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTR	* IE-LOSP *
1556					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+



1557	789	6	2.22E-09	0.93734	DG0-GEN-LF-FTR	*	DG2A-GEN-CC-FTR	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
1558					RA-B-10H	*	RA-9-2H	+				
1559	795	8	2.22E-09	0.93742	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1560					Q1	*	RA-B-48M	*	RA-9-48M	*	RCICRMCOOL-FLAG	+
1561	794	8	2.22E-09	0.93749	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1562					OPFAILS-REOPEN	*	Q1	*	RA-B-48M	*	RA-9-48M	+
1563	793	8	2.22E-09	0.93756	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1564					Q1	*	RA-B-48M	*	RA-9-48M	*	RCICRMCOOL-FLAG	+
1565	792	8	2.22E-09	0.93763	1E4327NY-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1566					OPFAILS-REOPEN	*	Q1	*	RA-B-48M	*	RA-9-48M	+
1567	791	8	2.22E-09	0.93770	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1568					OPFAILS-REOPEN	*	Q1	*	RA-B-48M	*	RA-9-48M	+
1569	790	8	2.22E-09	0.93777	1E4327NX-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1570					OPFAILS-REOPEN	*	Q1	*	RA-B-48M	*	RA-9-48M	+
1571	799	6	2.21E-09	0.93784	AP040X2-ROO-LFO	*	CODG01P-P-UUM	*	CONT-LEAK	*	1E-LOSP	*
1572					RA-B-27H	*	SUR-002-L	+				
1573	798	6	2.21E-09	0.93792	AP040X2-ROO-LFO	*	CONT-LEAK	*	1E-LOSP	*	LCSC002A-P-UUM	*
1574					RA-B-27H	*	SUR-002-L	+				
1575	797	6	2.21E-09	0.93799	AP039X2-ROO-LFO	*	CODG01P-P-UUM	*	CONT-LEAK	*	1E-LOSP	*
1576					RA-B-27H	*	SUR-002-L	+				
1577	796	6	2.21E-09	0.93806	AP039X2-ROO-LFO	*	CONT-LEAK	*	1E-LOSP	*	LCSC002A-P-UUM	*
1578					RA-B-27H	*	SUR-002-L	+				
1579	805	7	2.21E-09	0.93813	CONT-LEAK	*	DG0-GEN-LF-FTS	*	DG2A-G-UUM	*	1E-LOSP	*
1580					RA-B-27H	*	RA-9-27H	*	SUR-002-L	+		
1581	801	6	2.21E-09	0.93820	AP039X2-ROO-LFO	*	CONT-LEAK	*	1E-LOSP	*	RA-B-27H	*
1582					RHRC02AA-P-NDUUM	*	SUR-002-L	+				
1583	803	7	2.21E-09	0.93827	AP039X2-ROO-LFO	*	CONT-LEAK	*	1E-LOSP	*	RA-B-27H	*
1584					RHRC02AA-P-UUM	*	SCSF06AA-DENER	*	SUR-002-L	+		
1585	804	6	2.21E-09	0.93834	AP040X2-ROO-LFO	*	CONT-LEAK	*	1E-LOSP	*	RA-B-27H	*
1586					RHRC02AA-P-NDUUM	*	SUR-002-L	+				
1587	802	7	2.21E-09	0.93841	AP040X2-ROO-LFO	*	CONT-LEAK	*	1E-LOSP	*	RA-B-27H	*
1588					RHRC02AA-P-UUM	*	SCSF06AA-DENER	*	SUR-002-L	+		
1589	800	7	2.21E-09	0.93848	CONT-LEAK	*	DG0-G-UUM	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
1590					RA-B-27H	*	RA-9-27H	*	SUR-002-L	+		
1591	806	5	2.18E-09	0.93855	1EB36YB-BCO-LF	*	CODG01F-PLG-LF	*	1E-T5	*	/RA-5V-1-2H	*
1592					SUR-006-V	+						
1593	810	6	2.07E-09	0.93862	AP040X2-ROO-LFO	*	DG2B-G-UUM	*	EE-CODG01F-PLG	*	1E-LOSP	*
1594					RA-B-1H	*	RCICRMCOOL-FLAG	+				
1595	809	6	2.07E-09	0.93869	1E4327NX-ROO-LFO	*	DG0-G-UUM	*	EE-C2DG01F-PLG	*	1E-LOSP	*
1596					RA-B-1H	*	RCICRMCOOL-FLAG	+				
1597	807	6	2.07E-09	0.93871	AP040X2-ROO-LFO	*	DG0-G-UUM	*	EE-C3CD300-PLG	*	1E-LOSP	*
1598					RA-B-1H	*	RCICRMCOOL-FLAG	+				
1599	808	6	2.07E-09	0.93882	1E4327NY-ROO-LFO	*	DG0-G-UUM	*	EE-C2DG01F-PLG	*	1E-LOSP	*
1600					RA-B-1H	*	RCICRMCOOL-FLAG	+				
1601	811	6	2.05E-09	0.93889	1EB236B-BCO-LF	*	CODG01F-PLG-LF	*	CONT-LEAK	*	1E-T4	*
1602					RA-NONE	*	SUR-003-L	+				
1603	812	6	2.05E-09	0.93895	1E-T3	*	OPFAILSMFW-8M	*	RA-ATW-11-11-30M	*	RPS	*
1604					CLCC001A-RO00105	*	SUR-001-A-V	+				
1605	813	5	2.04E-09	0.93901	1EB36YB-BCO-LF	*	1E-T1	*	/RA-5V-1-2H	*	RHRC02AA-P-NDUUM	*
1606					SUR-005-V	+						
1607	814	6	2.04E-09	0.93908	1EB36YB-BCO-LF	*	1E-T1	*	/RA-5V-1-2H	*	RHRC02AA-P-UUM	*
1608					SCSF06AA-DENER	*	SUR-005-V	+				

1609	815	5	2.04E-09	0.93915	1EB36YB-BCC-LF	* CDDG01P-P-UUM	* IE-T1	* /RA-5V-1-2H	*
1610					SUR-005-V	+			
1611	816	5	2.04E-09	0.93922	1EB36YB-BCC-LF	* IE-T1	* LCSC002A-P-UUM	* /RA-5V-1-2H	*
1612					SUR-005-V	+			
1613	817	7	2.02E-09	0.93928	DG-FTS-BETA	* DGX-GEN-CM-FTS	* 1F-LOSP	* Q1	*
1614					RA-15-48M	* RA-B-48M	* RCICG01X-TDP-LF	+	
1615	819	6	2.00E-09	0.93935	IE-LOSP	* LPC1-MOV-BETA	* LPC1-MOV-CM1	* /OPFAIL-VENT-2H	*
1616					RA-B-27H	* SUR-006-V	+		
1617	818	6	2.00E-09	0.93941	IE-LOSP	* LPC1-MOV-BETA	* LPC1-MOJ-CM2	* /OPFAIL-VENT-2H	*
1618					RA-B-27H	* SUR-006-V	+		
1619	839	7	1.98E-09	0.93947	CSCC002-PMS-CC	* DGD-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1620					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1621	840	7	1.98E-09	0.93954	1EB432C-BCC-CC	* DGD-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1622					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1623	841	6	1.98E-09	0.93960	CDDG01P-PMS-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1624					RA-B-10H	* RA-9-2H	+		
1625	838	7	1.98E-09	0.93967	1EB433C-B00-CC	* DGD-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1626					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1627	837	6	1.98E-09	0.93973	DGV-MOD-COM-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1628					RA-B-10H	* RA-9-2H	+		
1629	834	7	1.98E-09	0.93979	1EB425B-BCC-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1630					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1631	831	6	1.98E-09	0.93986	DGV01CA-FMS-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1632					RA-B-10H	* RA-9-2H	+		
1633	832	6	1.98E-09	0.93992	1EB423B-B00-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1634					RA-B-10H	* RA-9-2H	+		
1635	836	6	1.98E-09	0.93998	1EB233A-BCC-AS	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1636					RA-B-10H	* RA-9-2H	+		
1637	835	7	1.98E-09	0.94005	1EB234B-BCC-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1638					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1639	830	6	1.98E-09	0.94011	1EB234B-BCC-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1640					RA-B-10H	* RA-9-2H	+		
1641	833	6	1.98E-09	0.94018	1EB433C-B00-CC	* DGD-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1642					RA-B-10H	* RA-9-2H	+		
1643	829	6	1.98E-09	0.94024	1EB412A-BCC-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1644					RA-B-10H	* RA-9-2H	+		
1645	828	6	1.98E-09	0.94030	1EB413A-B00-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1646					RA-B-10H	* RA-9-2H	+		
1647	827	7	1.98E-09	0.94037	C2DG01P-PMS-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1648					RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1649	826	6	1.98E-09	0.94043	CSCC002-PMS-CC	* DGD-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1650					RA-B-10H	* RA-9-2H	+		
1651	825	6	1.98E-09	0.94049	1EB432C-BCC-CC	* DGD-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1652					RA-B-10H	* RA-9-2H	+		
1653	824	6	1.98E-09	0.94056	1EB425B-BCC-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1654					RA-B-10H	* RA-9-2H	+		
1655	823	5	1.98E-09	0.94062	1EB422B-BCC-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1656					RA-B-10H	* RA-9-2H	+		
1657	821	6	1.98E-09	0.94069	C2DG01P-PMS-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1658					RA-B-10H	* RA-9-2H	+		
1659	820	6	1.98E-09	0.94075	DGV-MOD-COM-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1660					RA-B-10H	* RA-9-2H	+		

1661	822	7	1.98E-09	0.94081	DAV-MOD-COM-CC	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*
1662					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1663	842	7	1.98E-09	0.94088	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*	RA-8-10H	*
1664					RA-9-2H	*	RCICRMCOOL-FLAG	*	SEVY03CB-FMS-CC	+		*
1665	845	6	1.98E-09	0.94094	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	IE-LOSP	*	RA-8-10H	*
1666					RA-9-2H	*	SWVY02CC-FMS-CC	+				*
1667	843	7	1.98E-09	0.94101	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*	RA-8-10H	*
1668					RA-9-2H	*	RCICRMCOOL-FLAG	*	SEVY03CB-FMS-CC	+		*
1669	847	6	1.98E-09	0.94107	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*	RA-8-10H	*
1670					RA-9-2H	*	SEVY03CB-FMS-CC	+				*
1671	848	6	1.98E-09	0.94113	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*	RA-8-10H	*
1672					RA-9-2H	*	SEVY03CB-FMS-CC	+				*
1673	846	7	1.98E-09	0.94120	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	IE-LOSP	*	RA-8-10H	*
1674					RA-9-2H	*	RCICRMCOOL-FLAG	*	SWVY02CC-FMS-CC	+		*
1675	844	6	1.98E-09	0.94126	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*	RA-8-10H	*
1676					RA-9-2H	*	SWVY02CC-FMS-CC	+				*
1677	886	6	1.98E-09	0.94132	DOV-MOD-COM-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1678					RA-8-10H	*	RA-9-2H	+				*
1679	884	6	1.98E-09	0.94139	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	DHV-MOD-COM-CC	*	IE-LOSP	*
1680					RA-8-10H	*	RA-9-2H	+				*
1681	883	7	1.98E-09	0.94145	1E8412A-BCC-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1682					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1683	885	7	1.98E-09	0.94152	CODG01P-PMS-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1684					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1685	881	6	1.98E-09	0.94158	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	DG2V03CB-FMS-CC	*	IE-LOSP	*
1686					RA-8-10H	*	RA-9-2H	+				*
1687	880	7	1.98E-09	0.94164	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	DG2V03CB-FMS-CC	*	IE-LOSP	*
1688					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1689	882	7	1.98E-09	0.94171	DG0V01CA-FMS-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1690					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1691	876	6	1.98E-09	0.94177	1E8413A-BOO-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1692					RA-8-10H	*	RA-9-2H	+				*
1693	877	6	1.98E-09	0.94184	1E8422B-BCC-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1694					RA-8-10H	*	RA-9-2H	+				*
1695	875	6	1.98E-09	0.94190	1E8412A-BCC-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1696					RA-8-10H	*	RA-9-2H	+				*
1697	874	6	1.98E-09	0.94196	1E8423B-BOO-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1698					RA-8-10H	*	RA-9-2H	+				*
1699	872	6	1.98E-09	0.94203	1E8425B-BCC-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1700					RA-8-10H	*	RA-9-2H	+				*
1701	870	6	1.98E-09	0.94209	1E8433C-BOO-CC	*	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*
1702					RA-8-10H	*	RA-9-2H	+				*
1703	869	7	1.98E-09	0.94215	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	HCSC001C-PMS-CS	*	IE-LOSP	*
1704					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1705	868	7	1.98E-09	0.94222	1E8425B-BCC-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1706					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1707	867	6	1.98E-09	0.94228	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	HCSC001C-PMS-CS	*	IE-LOSP	*
1708					RA-8-10H	*	RA-9-2H	+				*
1709	871	7	1.98E-09	0.94235	DAV-MOD-COM-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1710					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		*
1711	865	6	1.98E-09	0.94241	DG0V01CA-FMS-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1712					RA-8-10H	*	RA-9-2H	+				*

1713	866	7	1.98E-09	0.94247	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	DG2V03CB-FMS-CC	*	IE-LOSP	*
1714					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1715	564	7	1.98E-09	0.94254	D0V-MOD-COM-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1716					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1717	863	7	1.98E-09	0.94260	1EB233A-BCC-AS	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1718					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1719	873	7	1.98E-09	0.94267	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DGHV01CC-FMS-CC	*	IE-LOSP	*
1720					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1721	860	6	1.98E-09	0.94273	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	DG2V03CB-FMS-CC	*	IE-LOSP	*
1722					RA-8-10H	*	RA-9-2H	+				
1723	849	6	1.98E-09	0.94279	1EB432C-BCC-CC	*	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*
1724					RA-8-10H	*	RA-9-2H	+				
1725	858	6	1.98E-09	0.94286	1EB234B-BCC-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1726					RA-8-10H	*	RA-9-2H	+				
1727	862	6	1.98E-09	0.94292	CSCC002-PMS-CC	*	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	IE-LOSP	*
1728					RA-8-10H	*	RA-9-2H	+				
1729	855	7	1.98E-09	0.94298	1EB234B-BCC-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1730					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1731	878	7	1.98E-09	0.94305	1EB413A-B00-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1732					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1733	854	6	1.98E-09	0.94311	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	HCSC001C-PMS-CS	*	IE-LOSP	*
1734					RA-8-10H	*	RA-9-2H	+				
1735	879	6	1.98E-09	0.94318	DAV-MOD-COM-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1736					RA-8-10H	*	RA-9-2H	+				
1737	856	6	1.98E-09	0.94324	C0DG01P-PMS-CC	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1738					RA-8-10H	*	RA-9-2H	+				
1739	853	6	1.98E-09	0.94330	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	DGHV01CC-FMS-CC	*	IE-LOSP	*
1740					RA-8-10H	*	RA-9-2H	+				
1741	852	6	1.98E-09	0.94337	1EB233A-BCC-AS	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1742					RA-8-10H	*	RA-9-2H	+				
1743	850	6	1.98E-09	0.94343	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DGHV01CC-FMS-CC	*	IE-LOSP	*
1744					RA-8-10H	*	RA-9-2H	+				
1745	851	6	1.98E-09	0.94350	C2DG01P-PMS-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1746					RA-8-10H	*	RA-9-2H	+				
1747	857	7	1.98E-09	0.94356	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DHV-MOD-COM-CC	*	IE-LOSP	*
1748					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1749	861	6	1.98E-09	0.94362	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DHV-MOD-COM-CC	*	IE-LOSP	*
1750					RA-8-10H	*	RA-9-2H	+				
1751	859	7	1.98E-09	0.94369	C2DG01P-PMS-CC	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
1752					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
1753	887	6	1.98E-09	0.94375	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*	LCSCG02A-P-UUM	*
1754					RA-8-10H	*	RA-9-10H	+				
1755	888	6	1.94E-09	0.94381	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	HCSC001C-PMS-CS	*	IE-LOSP	*
1756					RA-8-8H	*	RA-9-8H	+				
1757	894	6	1.94E-09	0.94388	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	HCSC001C-PMS-CS	*	IE-LOSP	*
1758					RA-8-8H	*	RA-9-8H	+				
1759	889	6	1.94E-09	0.94394	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2V03CB-FMS-CC	*	IE-LOSP	*
1760					RA-8-8H	*	RA-9-8H	+				
1761	893	6	1.94E-09	0.94400	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DGHV01CC-FMS-CC	*	IE-LOSP	*
1762					RA-8-8H	*	RA-9-8H	+				
1763	892	6	1.94E-09	0.94406	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DGHV01CC-FMS-CC	*	IE-LOSP	*
1764					RA-8-8H	*	RA-9-8H	+				

1765	895	6	1.94E-09	0.94413	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DHV-MOD-COM-CC	*	1E-LOSP	*
1766					RA-8-BH	*	RA-9-BH	+				
1767	890	6	1.94E-09	0.94419	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2V03CB-FMS-CC	*	1E-LOSP	*
1768					RA-8-BH	*	RA-9-BH	+				
1769	891	6	1.94E-09	0.94425	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DHV-MOD-COM-CC	*	1E-LOSP	*
1770					RA-8-BH	*	RA-9-BH	+				
1771	941	6	1.94E-09	0.94431	1EB433C-BOO-CC	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1772					RA-8-BH	*	RA-9-BH	+				
1773	940	6	1.94E-09	0.94438	1E4327NX-ROO-LFO	*	1EB234B-BCC-CC	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1774					RA-8-BH	*	RA-9-BH	+				
1775	935	6	1.94E-09	0.94444	1E4327NY-ROO-LFO	*	1EB233A-BCC-AS	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
1776					RA-8-BH	*	RA-9-BH	+				
1777	937	6	1.94E-09	0.94450	1E4327NY-ROO-LFO	*	C0D001P-PMS-CC	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
1778					RA-8-BH	*	RA-9-BH	+				
1779	936	6	1.94E-09	0.94456	1EB432C-BCC-CC	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1780					RA-8-BH	*	RA-9-BH	+				
1781	934	6	1.94E-09	0.94463	1E4327NX-ROO-LFO	*	C2D001P-PMS-CC	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1782					RA-8-BH	*	RA-9-BH	+				
1783	933	6	1.94E-09	0.94469	1E4327NY-ROO-LFO	*	DAV-MOD-COM-CC	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1784					RA-8-BH	*	RA-9-BH	+				
1785	932	6	1.94E-09	0.94475	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*	RA-8-BH	*
1786					RA-9-BH	*	SWVY02CC-FMS-CC	+				
1787	931	6	1.94E-09	0.94481	1E4327NX-ROO-LFO	*	1EB422B-BCC-CC	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1788					RA-8-BH	*	RA-9-BH	+				
1789	930	6	1.94E-09	0.94488	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*	RA-8-BH	*
1790					RA-9-BH	*	SWVY02CC-FMS-CC	+				
1791	929	6	1.94E-09	0.94494	1E4327NY-ROO-LFO	*	D0V-MOD-COM-CC	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
1792					RA-8-BH	*	RA-9-BH	+				
1793	928	6	1.94E-09	0.94500	1E4327NX-ROO-LFO	*	1EB233A-BCC-AS	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
1794					RA-8-BH	*	RA-9-BH	+				
1795	926	6	1.94E-09	0.94506	1E4327NY-ROO-LFO	*	1EB412A-BCC-CC	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
1796					RA-8-BH	*	RA-9-BH	+				
1797	925	6	1.94E-09	0.94513	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*	RA-8-BH	*
1798					RA-9-BH	*	SEVY03CB-FMS-CC	+				
1799	924	6	1.94E-09	0.94519	AP040X2-ROO-LFO	*	D0V-MOD-COM-CC	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
1800					RA-8-BH	*	RA-9-BH	+				
1801	922	6	1.94E-09	0.94525	1E4327NY-ROO-LFO	*	1EB425B-BCC-CC	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1802					RA-8-BH	*	RA-9-BH	+				
1803	921	6	1.94E-09	0.94531	1EB412A-BCC-CC	*	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
1804					RA-8-BH	*	RA-9-BH	+				
1805	920	6	1.94E-09	0.94538	AP040X2-ROO-LFO	*	C0D001P-PMS-CC	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
1806					RA-8-BH	*	RA-9-BH	+				
1807	919	6	1.94E-09	0.94544	AP039X2-ROO-LFO	*	C0D001P-PMS-CC	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
1808					RA-8-BH	*	RA-9-BH	+				
1809	918	6	1.94E-09	0.94550	AP039X2-ROO-LFO	*	D0V-MOD-COM-CC	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
1810					RA-8-BH	*	RA-9-BH	+				
1811	916	6	1.94E-09	0.94556	1EB413A-BOO-CC	*	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
1812					RA-8-BH	*	RA-9-BH	+				
1813	917	6	1.94E-09	0.94563	1E4327NY-ROO-LFO	*	1EB234B-BCC-CC	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
1814					RA-8-BH	*	RA-9-BH	+				
1815	915	6	1.94E-09	0.94569	1E4327NY-ROO-LFO	*	1EB413A-BOO-CC	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
1816					RA-8-BH	*	RA-9-BH	+				

1817	914	6	1.94E-09	0.94575	1E4327NY-R00-LFO	1E84258-BCC-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1818					RA-8-BH	RA-9-BH				*
1819	913	6	1.94E-09	0.94581	1E8233A-BCC-AS	AP04042-R00-LFO	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
1820					RA-8-BH	RA-9-BH				*
1821	912	6	1.94E-09	0.94583	1E4327NY-R00-LFO	DAV-M00-COM-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1822					RA-8-BH	RA-9-BH				*
1823	923	6	1.94E-09	0.94594	1E8433C-B00-CC	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1824					RA-8-BH	RA-9-BH				*
1825	911	6	1.94E-09	0.94600	1E8432C-BCC-CC	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1826					RA-8-BH	RA-9-BH				*
1827	910	6	1.94E-09	0.94606	1E4327NY-R00-LFO	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	*
1828					RA-8-BH	RA-9-BH				*
1829	909	6	1.94E-09	0.94613	1E8412A-BCC-CC	AP039X2-R00-LFO	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
1830					RA-8-BH	RA-9-BH				*
1831	927	6	1.94E-09	0.94619	1E4327NY-R00-LFO	1E8412A-BCC-CC	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	*
1832					RA-8-BH	RA-9-BH				*
1833	908	6	1.94E-09	0.94625	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP	1E-LOSP	RA-8-BH	*
1834					RA-9-BH	SEVY03CB-FMS-CC				*
1835	907	6	1.94E-09	0.94631	1E4327NY-R00-LFO	C08G01P-FMS-CC	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	*
1836					RA-8-BH	RA-9-BH				*
1837	906	6	1.94E-09	0.94638	1E4327NY-R00-LFO	1E8413A-B00-CC	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	*
1838					RA-8-BH	RA-9-BH				*
1839	905	6	1.94E-09	0.94644	1E4327NY-R00-LFO	1E8423B-B00-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1840					RA-8-BH	RA-9-BH				*
1841	904	6	1.94E-09	0.94650	1E8413A-B00-CC	AP039X2-R00-LFO	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
1842					RA-8-BH	RA-9-BH				*
1843	903	6	1.94E-09	0.94656	1E4327NY-R00-LFO	C20G01P-FMS-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1844					RA-8-BH	RA-9-BH				*
1845	902	6	1.94E-09	0.94663	1E4327NY-R00-LFO	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	*
1846					RA-8-BH	RA-9-BH				*
1847	935	6	1.94E-09	0.94669	AP039X2-R00-LFO	DG0V01CA-FMS-CC	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
1848					RA-8-BH	RA-9-BH				*
1849	901	6	1.94E-09	0.94675	1E4327NY-R00-LFO	1E8422B-BCC-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1850					RA-8-BH	RA-9-BH				*
1851	900	6	1.94E-09	0.94681	1E8233A-BCC-AS	AP039X2-R00-LFO	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
1852					RA-8-BH	RA-9-BH				*
1853	899	6	1.94E-09	0.94688	AP039X2-R00-LFO	CSCC002-FMS-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1854					RA-8-BH	RA-9-BH				*
1855	939	6	1.94E-09	0.94694	AP040X2-R00-LFO	DG0V01CA-FMS-CC	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
1856					RA-8-BH	RA-9-BH				*
1857	898	6	1.94E-09	0.94700	1E4327NY-R00-LFO	D0V-M00-COM-CC	D07A-GEN-LF-FTS	D07A-GEN-LF-FTS	1E-LOSP	*
1858					RA-8-BH	RA-9-BH				*
1859	897	6	1.94E-09	0.94706	1E4327NY-R00-LFO	1E8423B-B00-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1860					RA-8-BH	RA-9-BH				*
1861	896	6	1.94E-09	0.94713	AP040X2-R00-LFO	CSCC002-FMS-CC	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP	*
1862					RA-8-BH	RA-9-BH				*
1863	945	7	1.94E-09	0.94719	DG0-G-DUM	DG2B-GEN-LF-FTS	DG2V02FX-KLN-LFB	DG2V02FX-KLN-LFB	1E-LOSP	*
1864					RA-8-1H	RA-9-1H	RC1CRMCOOL-FLAG	RC1CRMCOOL-FLAG	1E-LOSP	*
1865	944	7	1.94E-09	0.94725	C20G01F-PLG-LF	DG0-GEN-LF-FTS	DG2B-G-DUM	DG2B-G-DUM	1E-LOSP	*
1866					RA-8-1H	RA-9-1H	RC1CRMCOOL-FLAG	RC1CRMCOOL-FLAG	1E-LOSP	*
1867	943	7	1.94E-09	0.94731	DG0-GEN-LF-FTS	DG2B-G-DUM	DG2V02FX-KLN-LFB	DG2V02FX-KLN-LFB	1E-LOSP	*
1868					RA-8-1H	RA-9-1H	RC1CRMCOOL-FLAG	RC1CRMCOOL-FLAG	1E-LOSP	*

1869	942	7	1.94E-09	0.94738	C2DG01F-PLG-LF	* DG0-G-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1870					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	+	
1871	952	7	1.90E-09	0.94744	AP040X2-ROO-LFO	* DG0-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP	*
1872					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1873	951	6	1.90E-09	0.94750	1E4327NX-ROO-LFO	* DG2A-GEN-LF-FTR	* IE-LOSP	* LCSC002A-P-UUM	*
1874					RA-8-10H	* RA-9-2H	+		
1875	950	6	1.90E-09	0.94756	AP039X2-ROO-LFO	* DG2B-GEN-LF-FTR	* IE-LOSP	* LCSC002A-P-UUM	*
1876					RA-8-10H	* RA-9-2H	+		
1877	949	6	1.90E-09	0.94762	1E4327NY-ROO-LFO	* DG2A-GEN-LF-FTR	* IE-LOSP	* LCSC002A-P-UUM	*
1878					RA-8-10H	* RA-9-2H	+		
1879	948	6	1.90E-09	0.94768	AP040X2-ROO-LFO	* DG2B-GEN-LF-FTR	* IE-LOSP	* LCSC002A-P-UUM	*
1880					RA-8-10H	* RA-9-2H	+		
1881	947	6	1.90E-09	0.94774	AP039X2-ROO-LFO	* DG0-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP	*
1882					RA-8-10H	* RA-9-2H	+		
1883	946	6	1.90E-09	0.94781	AP040X2-ROO-LFO	* DG0-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP	*
1884					RA-8-10H	* RA-9-2H	+		
1885	966	6	1.90E-09	0.94787	AP039X2-ROO-LFO	* C0DG01P-P-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1886					RA-8-10H	* RA-9-2H	+		
1887	965	7	1.90E-09	0.94793	AP040X2-ROO-LFO	* CSCC002-P-UUM	* DG0-GEN-LF-FTR	* IE-LOSP	*
1888					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1889	964	6	1.90E-09	0.94799	1E4327NY-ROO-LFO	* C0DG01P-P-UUM	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1890					RA-8-10H	* RA-9-2H	+		
1891	963	6	1.90E-09	0.94805	1E4327NY-ROO-LFO	* C2DG01P-P-UUM	* DG0-GEN-LF-FTR	* IE-LOSP	*
1892					RA-8-10H	* RA-9-2H	+		
1893	962	7	1.90E-09	0.94811	1E4327NX-ROO-LFO	* C0DG01P-P-UUM	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1894					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1895	961	6	1.90E-09	0.94817	AP040X2-ROO-LFO	* CSCC002-P-UUM	* DG0-GEN-LF-FTR	* IE-LOSP	*
1896					RA-8-10H	* RA-9-2H	+		
1897	960	6	1.90E-09	0.94823	AP039X2-ROO-LFO	* CSCC002-P-UUM	* DG0-GEN-LF-FTR	* IE-LOSP	*
1898					RA-8-10H	* RA-9-2H	+		
1899	959	7	1.90E-09	0.94830	AP040X2-ROO-LFO	* C0DG01P-P-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1900					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1901	958	6	1.90E-09	0.94836	1E4327NX-ROO-LFO	* C2DG01P-P-UUM	* DG0-GEN-LF-FTR	* IE-LOSP	*
1902					RA-8-10H	* RA-9-2H	+		
1903	957	7	1.90E-09	0.94842	1E4327NY-ROO-LFO	* C2DG01P-P-UUM	* DG0-GEN-LF-FTR	* IE-LOSP	*
1904					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1905	956	6	1.90E-09	0.94848	AP040X2-ROO-LFO	* C0DG01P-P-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1906					RA-8-10H	* RA-9-2H	+		
1907	955	6	1.90E-09	0.94854	1E4327NX-ROO-LFO	* C0DG01P-P-UUM	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1908					RA-8-10H	* RA-9-2H	+		
1909	954	7	1.90E-09	0.94860	1E4327NY-ROO-LFO	* C0DG01P-P-UUM	* DG2A-GEN-LF-FTR	* IE-LOSP	*
1910					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1911	953	7	1.90E-09	0.94866	1E4327NX-ROO-LFO	* C2DG01P-P-UUM	* DG0-GEN-LF-FTR	* IE-LOSP	*
1912					RA-8-10H	* RA-9-2H	* RCICRMCOOL-FLAG	+	
1913	968	7	1.90E-09	0.94872	IE-T4	* OPFAILSMFW-8M	* RA-NONE	* RPS	*
1914					SAK2ARCX-RCO-LFO	* SAK2BRCX-RCO-LFO	* SUR-001-A-V	+	
1915	967	7	1.90E-09	0.94879	IE-T4	* OPFAILSMFW-8M	* RA-A1WS-12-3-10M	* RPS	*
1916					SAK6ARCX-RCO-LFO	* SAK6BRCX-RCO-LFO	* SUR-001-A-V	+	
1917	970	6	1.88E-09	0.94885	1E8236B-BCO-LF	* /CONT-LEAK	* IE-T4	* LCSC002A-P-UUM	*
1918					RA-NONE	* SUR-021-R	+		
1919	969	7	1.88E-09	0.94891	1E8236B-BCO-LF	* /CONT-LEAK	* IE-T4	* RA-NONE	*
1920					RHRC02AA-P-UUM	* SCSFD6AA-DENER	* SUR-021-R	+	

1921	973	6	1.88E-09	0.94897	1E36YB-BCC-LF	* FLOW-RHR-A3	* IE-T5	* /RA-SV-1-2H	*
1922					RHF4BA-V00-LF	* SUR-006-V	*		*
1923	972	5	1.88E-09	0.94903	1E36YB-BCC-LF	* CSCF04BA-VCC-LF	* IE-T5	* /RA-SV-1-2H	*
1924					SUR-006-V	*			*
1925	971	5	1.88E-09	0.94909	1E36YB-BCC-LF	* IE-T5	* /RA-SV-1-2H	* RHR801AA-B00-LF	*
1926					SUR-006-V	*			*
1927	974	5	1.87E-09	0.94915	/CONT-LEAK	* IE-T101	* RA-NONE	* RPS	*
1928					SUR-001-A-R	*			*
1929	980	6	1.87E-09	0.94921	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
1930					RA-8-10H	* RA-9-2H	*		*
1931	979	7	1.87E-09	0.94927	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
1932					RA-8-10H	* RA-9-2H	* RCICRMDOL-FLAG	*	*
1933	978	6	1.87E-09	0.94933	1E4327NX-R00-LFO	* AP039X2-R00-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
1934					RA-8-10H	* RA-9-2H	*		*
1935	977	7	1.87E-09	0.94939	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
1936					RA-8-10H	* RA-9-2H	* RCICRMDOL-FLAG	*	*
1937	976	6	1.87E-09	0.94945	1E4327NX-R00-LFO	* AP040X2-R00-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
1938					RA-8-10H	* RA-9-2H	*		*
1939	975	6	1.87E-09	0.94951	1E4327NX-R00-LFO	* AP039X2-R00-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
1940					RA-8-10H	* RA-9-2H	*		*
1941	981	5	1.87E-09	0.94957	AP040X2-R00-LFO	* DGO-0-UJM	* DGO-0-UJM	* IE-LOSP	*
1942					RA-8-10H	*			*
1943	982	6	1.86E-09	0.94963	IE-T5	* OPFAILSMF5-8M	* RA-NONE	* RPS	*
1944					SLCC001A-P-T0001	* SUR-001-A-V	*		*
1945	998	6	1.84E-09	0.94969	AP040X2-R00-LFO	* C00G01P-PMS-CC	* CONT-LEAK	* IE-LOSP	*
1946					RA-8-27H	* SUR-002-L	*		*
1947	997	6	1.84E-09	0.94975	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* NAWY01CA-FMS-CC	*
1948					RA-8-27H	* SUR-002-L	*		*
1949	996	6	1.84E-09	0.94981	AP039X2-R00-LFO	* C00G01P-PMS-CC	* CONT-LEAK	* IE-LOSP	*
1950					RA-8-27H	* SUR-002-L	*		*
1951	995	6	1.84E-09	0.94987	1E8412A-BCC-CC	* AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	*
1952					RA-8-27H	* SUR-002-L	*		*
1953	994	6	1.84E-09	0.94993	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
1954					RHR801AA-B00-CC	* SUR-002-L	*		*
1955	993	6	1.84E-09	0.94999	1E8412A-BCC-CC	* AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	*
1956					RA-8-27H	* SUR-002-L	*		*
1957	992	6	1.84E-09	0.95004	1E8233A-BCC-AS	* AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	*
1958					RA-8-27H	* SUR-002-L	*		*
1959	991	6	1.84E-09	0.95010	1E8413A-B00-CC	* AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	*
1960					RA-8-27H	* SUR-002-L	*		*
1961	990	6	1.84E-09	0.95016	AP039X2-R00-LFO	* CONT-LEAK	* DGOV01CA-FMS-CC	* IE-LOSP	*
1962					RA-8-27H	* SUR-002-L	*		*
1963	989	6	1.84E-09	0.95022	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
1964					RHR801AA-B00-CC	* SUR-002-L	*		*
1965	988	6	1.84E-09	0.95028	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* NAWY01CA-MS-CC	*
1966					RA-8-27H	* SUR-002-L	*		*
1967	987	6	1.84E-09	0.95034	1E8413A-B00-CC	* AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	*
1968					RA-8-27H	* SUR-002-L	*		*
1969	986	6	1.84E-09	0.95040	AP039X2-R00-LFO	* CONT-LEAK	* DGV-MOD-COM-CC	* IE-LOSP	*
1970					RA-8-27H	* SUR-002-L	*		*



A\_120

TOP EVENT ATWS-120 CONTAINS 50 EVENTS IN 80 CUT SETS

THE FREQUENCY OF TOP EVENT ATWS-120 IS 4.74E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-120

N	300
MEAN	7.98E-08
STD DEV	4.73E-07
LOWER 5%	5.76E-10
LOWER 25%	3.11E-09
MEDIAN	1.09E-08
UPPER 25%	3.08E-08
UPPER 5%	1.76E-07

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PO = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

A 120

RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RPS	80	1.00E-05 ( 37.0)	4.74E-08 ( 1.5)	5.76E-10	1.76E-07
SUR-001-A-V	80	6.10E-01 ( 4.0)	4.74E-08 ( 1.5)	5.76E-10	1.76E-07
RA-NONE	25	1.00E+00 ( 2.0)	2.56E-08 ( 3.0)		
RWCF004X-V00-CC	5	2.50E-03 ( 15.5)	1.08E-08 ( 4.0)	2.48E-11	3.36E-08
GR-ATL-SLCOX-5H	26	2.10E-03 ( 19.0)	1.04E-08 ( 5.0)	4.79E-11	3.86E-08
RA-ATWS-12-3-10M	6	1.00E+00 ( 2.0)	6.59E-09 ( 6.0)		
SAK6ARCX-RCO-LFO	5	3.90E-02 ( 6.5)	6.57E-09 ( 8.5)	2.15E-12	3.09E-08
SAK2ARCX-RCO-LFO	5	3.90E-02 ( 6.5)	6.57E-09 ( 8.5)	2.15E-12	3.09E-08
SAK2BRCX-RCO-LFO	5	3.90E-02 ( 6.5)	6.57E-09 ( 8.5)	2.15E-12	3.09E-08
SAK6BRCX-RCO-LFO	5	3.90E-02 ( 6.5)	6.57E-09 ( 8.5)	2.15E-12	3.09E-08
SLCC001A-R000105	5	1.10E-03 ( 25.0)	4.75E-09 ( 11.5)	1.30E-11	1.44E-08
RA-ATW-11-11-30M	5	1.00E+00 ( 2.0)	4.75E-09 ( 11.5)		
SLCC001A-P-10001	4	1.00E-03 ( 28.0)	3.73E-09 ( 13.0)	4.26E-11	1.36E-08
SLCF008X-XOC-LF	4	6.60E-04 ( 30.0)	2.46E-09 ( 14.0)	1.86E-11	8.45E-09
RWCF004X-V00-LF	4	5.00E-04 ( 32.0)	1.87E-09 ( 15.0)	3.77E-12	5.80E-09
MFS-RESET-5H	28	2.10E-03 ( 19.0)	8.52E-10 ( 16.0)	2.08E-12	4.75E-09
C34N004A-OCO-LFO	5	3.30E-03 ( 9.0)	2.81E-10 ( 17.0)	9.89E-13	9.26E-10
MFW01PCE-M-UUM	1	3.00E-03 ( 11.0)	1.73E-10 ( 18.5)	1.55E-13	7.09E-10
MLO03PCB-M-UUM	1	3.00E-03 ( 11.0)	1.73E-10 ( 18.5)	1.55E-13	7.09E-10
MFW001E-BOO-CC	1	2.50E-03 ( 15.5)	1.44E-10 ( 20.5)	7.73E-14	3.77E-10
MLO03PCB-PMS-CC	1	2.50E-03 ( 15.5)	1.44E-10 ( 20.5)	7.73E-14	3.77E-10
DRFP-T-OE-5H	16	2.60E-03 ( 13.0)	1.07E-10 ( 22.0)	1.21E-13	3.29E-10
PS15XB-LFO	1	1.20E-03 ( 22.0)	6.92E-11 ( 23.5)	1.01E-14	1.85E-10
PS15XA-LFO	1	1.20E-03 ( 22.0)	6.92E-11 ( 23.5)	1.01E-14	1.85E-10
MFW01PCE-PMS-LF	1	1.10E-03 ( 25.0)	6.34E-11 ( 25.0)	7.59E-14	1.64E-10
OPFAIL-SLC1B-5H	18	2.10E-03 ( 19.0)	6.17E-11 ( 26.0)	1.44E-13	2.19E-10
SLCF007X-CCC-LF	1	1.00E-03 ( 28.0)	5.76E-11 ( 27.5)	1.35E-13	2.34E-10
SLCF006X-CCC-LF	1	1.00E-03 ( 28.0)	5.76E-11 ( 27.5)	1.35E-13	2.34E-10
CDS0023X-NCC-LF	1	5.00E-04 ( 32.0)	2.88E-11 ( 29.5)	1.64E-14	7.43E-11
MFW0005X-NCC-LF	1	5.00E-04 ( 32.0)	2.88E-11 ( 29.5)	1.64E-14	7.43E-11
SLCC001A-P-UUM	5	3.00E-03 ( 11.0)	2.72E-11 ( 31.0)	2.49E-14	9.29E-11
SLCC001A-PMS-CC	5	2.50E-03 ( 15.5)	2.27E-11 ( 32.0)	1.60E-14	6.61E-11
SLCA001X-T-UUM	1	3.00E-04 ( 35.5)	1.73E-11 ( 33.5)	1.59E-14	4.04E-11
SAK27RCXCP3-LFO	1	3.00E-04 ( 35.5)	1.73E-11 ( 33.5)	1.03E-14	5.08E-11
SLCB001X-BCO-LF	4	1.10E-03 ( 25.0)	8.63E-12 ( 35.0)	7.84E-15	2.43E-11
SLCC001A-PMS-LF	4	4.00E-04 ( 34.0)	3.14E-12 ( 36.0)	1.84E-15	7.79E-12
MODESWTCH-OE-5H	1	1.20E-03 ( 22.0)	5.60E-15 ( 37.0)	1.28E-18	1.03E-14

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RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RPS	80	1.00E-05 ( 37.0)	4.74E-03 ( 1.0)	3.76E-04	2.21E-02
OPFAIL-SLCCX-5H	26	2.10E-03 ( 19.0)	4.95E-06 ( 2.0)	8.30E-08	1.96E-05
SLCC001A-R000105	5	1.10E-03 ( 25.0)	4.31E-06 ( 3.0)	6.45E-08	1.64E-05
RWCF004X-V00-CC	5	2.50E-03 ( 15.5)	4.31E-06 ( 4.0)	6.45E-08	1.63E-05
RWCF004X-V00-LF	4	5.00E-04 ( 32.0)	3.73E-06 ( 5.0)	5.11E-08	1.38E-05
SLCF008X-X00-LF	4	6.60E-04 ( 30.0)	3.73E-06 ( 6.0)	5.12E-08	1.38E-05
SLCC001A-P-T0001	4	1.00E-03 ( 28.0)	3.73E-06 ( 7.0)	5.11E-08	1.38E-05
MFS-RESET-5H	28	2.10E-03 ( 19.0)	4.05E-07 ( 8.0)	4.20E-09	1.74E-06
SAK2BRDX-R00-LFO	5	3.90E-02 ( 6.5)	1.62E-07 ( 10.5)	6.11E-10	4.26E-07
SAK6ARDX-R00-LFO	5	3.90E-02 ( 6.5)	1.62E-07 ( 10.5)	6.11E-10	4.26E-07
SAK2ARDX-R00-LFO	5	3.90E-02 ( 6.5)	1.62E-07 ( 10.5)	6.11E-10	4.26E-07
SAK6BRDX-R00-LFO	5	3.90E-02 ( 6.5)	1.62E-07 ( 10.5)	6.11E-10	4.26E-07
C34N004A-O00-LFO	5	3.30E-02 ( 9.0)	8.48E-08 ( 13.0)	3.80E-10	3.23E-07
SAK27RCXCP3-LFO0	1	3.00E-04 ( 35.5)	5.76E-08 ( 14.5)	2.24E-10	2.45E-07
SLCA001X-T-UUM	1	3.00E-04 ( 35.5)	5.76E-08 ( 14.5)	2.24E-10	2.45E-07
CDS0023X-NCC-LF	1	5.00E-04 ( 32.0)	5.76E-08 ( 16.5)	2.24E-10	2.45E-07
HFWD005X-NCC-LF	1	5.00E-04 ( 32.0)	5.76E-08 ( 16.5)	2.24E-10	2.45E-07
SLCF007X-CCC-LF	1	1.00E-03 ( 28.0)	5.76E-08 ( 18.5)	2.24E-10	2.45E-07
SLCF006X-CCC-LF	1	1.00E-03 ( 27.0)	5.76E-08 ( 18.5)	2.24E-10	2.45E-07
HFWD1PCE-PMS-LF	1	1.10E-03 ( 25.0)	5.76E-08 ( 20.0)	2.24E-10	2.45E-07
PS15XB-LFO	1	1.20E-03 ( 22.0)	5.76E-08 ( 21.5)	2.24E-10	2.45E-07
PS15XA-LFO	1	1.20E-03 ( 22.0)	5.76E-08 ( 21.5)	2.24E-10	2.45E-07
MFWD001E-B00-CC	1	2.50E-03 ( 15.5)	5.75E-08 ( 23.5)	2.24E-10	2.45E-07
ML003PCB-PMS-CC	1	2.50E-03 ( 15.5)	5.75E-08 ( 23.5)	2.24E-10	2.45E-07
MFWD1PCE-M-UUM	1	3.00E-03 ( 11.0)	5.75E-08 ( 25.5)	2.24E-10	2.43E-07
ML003PCB-M-UUM	1	3.00E-03 ( 11.0)	5.75E-08 ( 25.5)	2.24E-10	2.43E-07
TDRFP-T-0E-5H	16	2.60E-03 ( 13.0)	4.10E-08 ( 27.0)	3.94E-10	1.76E-07
SUR-001-A-V	80	6.10E-01 ( 4.0)	3.03E-08 ( 28.0)	7.73E-11	1.80E-07
OPFAIL-TLCC18-5H	18	2.10E-03 ( 19.0)	2.93E-08 ( 29.0)	2.55E-10	1.06E-07
SLCC00 PMS-CC	5	2.50E-03 ( 15.5)	9.05E-09 ( 30.0)	4.04E-11	3.15E-08
SLCC001A-P-UUM	5	3.00E-03 ( 11.0)	9.04E-09 ( 31.0)	4.04E-11	3.15E-08
SLCC001A-PMS-LF	4	4.00E-04 ( 34.0)	7.84E-09 ( 32.0)	3.20E-11	2.87E-08
SLCB001X-BCU-LF	4	1.10E-03 ( 25.0)	7.83E-09 ( 33.0)	3.20E-11	2.87E-08
MODESWTCH-0E-5H	1	1.20E-03 ( 22.0)	4.66E-12 ( 34.0)	3.81E-15	1.09E-11
RA-ATW-11-11-30M	5	1.00E+00 ( 2.0)	0.00E+00 ( 36.0)		
RA-NONE	25	1.00E+00 ( 2.0)	0.00E+00 ( 36.0)		
RA-ATWS-12-3-10M	6	1.00E+00 ( 2.0)	0.00E+00 ( 36.0)		

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A.120  
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 UNCERTAINTY IMPORTANCE BY BASE EVENT  
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BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y <sub>.05</sub> /TE <sub>.05</sub> *	Y <sub>.95</sub> /TE <sub>.95</sub> *
RPS	20	1.00E-05 ( 37.0)	49.4 ( 1.0)	6.53	1.25
SUR-001-A-V	80	6.10E-01 ( 4.0)	17.7 ( 2.0)	1.76	1.01
SAK2ARCA-RCO-LFO	5	3.90E-02 ( 6.5)	13.8 ( 4.5)	1.12	0.95
SAK6APCX-RCO-LFO	5	3.90E-02 ( 6.5)	13.8 ( 4.5)	1.12	0.95
SAK6BRCA-RCO-LFO	5	3.90E-02 ( 6.5)	13.8 ( 4.5)	1.12	0.95
SAK2BRCA-RCO-LFO	5	3.90E-02 ( 6.5)	13.8 ( 4.5)	1.12	0.95
PS15XB-LFO	1	1.20E-03 ( 22.0)	12.1 ( 7.5)	1.00	1.00
PS15XA-LFO	1	1.20E-03 ( 22.0)	12.1 ( 7.5)	1.00	1.00
MFS-RESET-5H	28	2.10E-03 ( 19.0)	5.3 ( 10.0)	1.29	0.95
OPFAIL-SLIC1B-5H	18	2.10E-03 ( 19.0)	5.3 ( 10.0)	1.29	0.95
OPFAIL-SLIC0X-5H	26	2.10E-03 ( 19.0)	5.3 ( 16.0)	1.29	0.95
SLCC001A-R000105	5	1.10E-03 ( 25.0)	4.8 ( 12.0)	1.10	0.96
MODESWTCH-OE-5H	1	1.20E-03 ( 22.0)	3.4 ( 13.0)	1.00	1.00
SLCC001A-PMS-LF	4	4.00E-04 ( 34.0)	2.8 ( 14.0)	1.00	1.00
SLCC001A-PMS-CC	5	2.50E-03 ( 15.5)	2.5 ( 16.5)	1.13	0.97
MF48001E-B00-CC	1	2.50E-03 ( 15.5)	2.5 ( 16.5)	1.13	0.97
RWC004X-V00-CC	5	2.50E-03 ( 15.5)	2.5 ( 16.5)	1.13	0.97
ML003PCB-PMS-CC	1	2.50E-03 ( 15.5)	2.5 ( 16.5)	1.13	0.97
MF4015CE-PMS-LF	1	1.10E-03 ( 25.0)	2.3 ( 19.0)	1.00	1.00
SLCA001X-T-UUM	1	3.00E-04 ( 35.5)	2.0 ( 20.0)	1.00	1.00
SLCF007X-CCC-LF	1	1.00E-03 ( 28.0)	1.7 ( 21.5)	1.00	1.00
SLCF006X-CCC-LF	1	1.00E-03 ( 28.0)	1.7 ( 21.5)	1.00	1.00
SLCB001X-BCO-LF	4	1.10E-03 ( 25.0)	1.4 ( 23.0)	1.00	1.00
TDRFP-T-0E-5H	16	2.60E-03 ( 13.0)	1.3 ( 24.0)	1.00	1.00
SLCC001A-P-T0301	4	1.00E-03 ( 28.0)	1.2 ( 25.0)	1.04	0.97
RWC004X-V00-LF	4	5.00E-04 ( 32.0)	0.9 ( 27.0)	0.95	1.01
MF40005X-NCC-LF	1	5.00E-04 ( 32.0)	0.9 ( 27.0)	0.95	1.01
CDS0027X-NCC-LF	1	5.00E-04 ( 32.0)	0.9 ( 27.0)	0.95	1.01
SAK27-CXCP3-LFOO	1	3.00E-04 ( 35.5)	0.9 ( 29.0)	1.00	1.00
J-A-P-UUM	4	6.60E-04 ( 30.0)	0.8 ( 30.0)	1.02	1.00
J-CE-M-UUM	5	3.00E-03 ( 11.0)	0.0 ( 32.5)		
002-CE-M-UUM	1	3.00E-03 ( 11.0)	0.0 ( 32.5)		
E34N004A-OCO-LFO	5	3.30E-03 ( 9.0)	0.0 ( 32.5)		
RA-ATW-11-11-30M	5	1.00E+00 ( 2.0)	0.0 ( 32.5)		
RA-NONE	25	1.00E+00 ( 2.0)	0.0 ( 32.5)		
RA-ATWS-12-3-UM	6	1.00E+00 ( 2.0)	0.0 ( 32.5)		

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES, CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS FOR TOP EVENT ATWS-120 WITH TOP EVENT FA AGENCY 4.74E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	5	9.15E-09	0.19312	1E-15	* RA-NONE	* RPS	* RWCFO04X-V00-CC *
3					SUR-001-A-V	*		
4	2	4	7.69E-09	0.35533	1E-15	* OPFAIL-SLCOX-5H	* RPS	* SUR-001-A-V *
5	4	6	5.57E-09	0.47283	1E-15	* RA-NONE	* RPS	* SAK2ARCK-RCO-LFO *
6					SAK2BRCK-LCO-LFO	*		
7	3	6	5.57E-09	0.59032	1E-15	* SUR-001-A-V	* RPS	* SAK6ARCK-RCO-LFO *
8					RA-ATWS-12-3-10M	*		
9	5	5	4.03E-09	0.67529	1E-15	* SUR-001-A-V	* RPS	* SLCC001A-R000105 *
10					SUR-001-A-V	*		
11	6	5	3.66E-09	0.75254	1E-15	* RA-NONE	* RPS	* SLCC001A-P-10001 *
12					SUR-001-A-V	*		
13	7	5	2.42E-09	0.80352	1E-15	* RA-NONE	* RPS	* SLCF006X-K0K-LF *
14					SUR-001-A-V	*		
15	8	5	1.83E-09	0.84214	1E-15	* RA-NONE	* RPS	* RWCFO04X-V00-LF *
16					SUR-001-A-V	*		
17	9	5	1.46E-09	0.87304	1E-10SP	* RA-NONE	* RPS	* RWCFO04X-V00-CC *
18					SUR-001-A-V	*		
19	10	4	1.23E-09	0.89900	1E-10SP	* OPFAIL-SLCOX-5H	* RPS	* SUR-001-A-V *
20	12	6	8.91E-10	0.91780	1E-10SP	* RA-ATWS-12-3-10M	* RPS	* SAK6ARCK-RCO-LFO *
21					SAK6BRCK-RCO-LFO	*		
22	11	6	8.91E-10	0.93659	1E-10SP	* RA-NONE	* RPS	* SAK2ARCK-RCO-LFO *
23					SAK2BRCK-RCO-LFO	*		
24	13	5	6.44E-10	0.95019	1E-10SP	* SUR-001-A-V	* RPS	* SLCC001A-R000105 *
25					SUR-001-A-V	*		
26	14	5	1.90E-10	0.95420	C34M004A-DCO-LFO	* 1E-11	* OPFAIL-SLCOX-5H	* RPS
27					SUR-001-A-V	*		
28	15	5	1.73E-10	0.95785	1E-11	* MLC03PCB-M-LUM	* OPFAIL-SLCOX-5H	* RPS
29					SUR-001-A-V	*		
30	16	5	1.73E-10	0.96150	1E-11	* MFW01PCE-M-LUM	* OPFAIL-SLCOX-5H	* RPS
31					SUR-001-A-V	*		
32	17	6	1.00E-10	0.96455	1E-11	* MFS-RESET-5H	* RA-NONE	* RPS
33					RWCFO04X-V00-CC	*		
34	18	5	1.47E-10	0.96759	1E-11	* MLC03PCB-PMS-CC	* OPFAIL-SLCOX-5H	* RPS
35					RA-ATWS-12-3-10M	*		
36	19	5	1.44E-10	0.97063	1E-11	* MFW001E-B00-CC	* OPFAIL-SLCOX-5H	* RPS
37					SUR-001-A-V	*		
38	20	5	1.21E-10	0.97318	1E-11	* MFS-RESET-5H	* OPFAIL-SLCOX-5H	* RPS
39					SUR-001-A-V	*		
40	22	7	8.77E-11	0.97503	1E-11	* MFS-RESET-5H	* RA-ATWS-12-3-10M	* RPS
41					SAK6BRCK-RCO-LFO	*	* SUR-001-A-V	*

42	21	7	8.77E-11	0.97509	IE-11	* WFS-RESET-SH	* RA-NONE	* RPS	*
43					SARZACK-RCD-LFO	* SARZACK-RCD-LFO	* SUR-001-A-V	*	*
44	24	5	6.92E-11	0.97835	IE-11	* DPFAIL-SLCOX-SH	* PSTSWA-LFO	* RPS	*
45					SUR-001-A-V	*	*	*	*
46	23	5	6.92E-11	0.97981	IE-11	* DPFAIL-SLCOX-SH	* PSTSWB-LFO	* RPS	*
47					SUR-001-A-V	*	*	*	*
48	26	4	6.40E-11	0.98116	IE-19L	* DPFAIL-SLCOX-SH	* RPS	* SUR-001-A-V	*
49	25	4	6.40E-11	0.98251	IE-19A	* DPFAIL-SLCOX-SH	* RPS	* SUR-001-A-V	*
50	28	5	6.34E-11	0.98385	IE-11	* MFWG1PCE-PMS-LF	* DPFAIL-SLCOX-SH	* RPS	*
51					SUR-001-A-V	*	*	*	*
52	27	6	6.34E-11	0.98519	IE-11	* WFS-RESET-SH	* RA-RTM-11-11-30M	* RPS	*
53					SLCC001A-R000105	* SUR-001-A-V	*	*	*
54	29	6	5.76E-11	0.98640	IE-11	* WFS-RESET-SH	* RA-NONE	* RPS	*
55					SLCC001A-P-T0001	* SUR-001-A-V	*	*	*
56	45	6	5.76E-11	0.98762	IE-11	* WFS-RESET-SH	* RA-NONE	* RPS	*
57					SLCF007A-CCC-LF	* SUR-001-A-V	*	*	*
58	43	6	5.76E-11	0.98884	IE-11	* WFS-RESET-SH	* RA-NONE	* RPS	*
59					SLCF006A-CCC-LF	* SUR-001-A-V	*	*	*
60	30	4	3.84E-11	0.98965	IE-111	* DPFAIL-SLCOX-SH	* RPS	* SUR-001-A-V	*
61	31	6	3.80E-11	0.99045	IE-11	* WFS-RESET-SH	* RA-NONE	* RPS	*
62					SLCF008A-XDC-LF	* SUR-001-A-V	*	*	*

TEMAC RUN TIME IN CPU SECONDS 62.53

A. 123

TOP EVENT ATWS-123      CONT7/INS    34 EVENTS IN    25 CUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-123      IS    1.50E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-123

N	300
MEAN	3.20E-08
STD DEV	2.24E-07
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	~.00E+00
UPPER 25%	0.60E+00
UPPER 5%	1.15E-07

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times CV(J)$   
=  $TEF - TEF(\text{EVALUATED WITH } EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - \text{RISK REDUCTION}$   
=  $PD \times (1 - EV(J))$   
=  $TEF(\text{EVALUATED WITH } EV(J) = 1) - TEF$

RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		
				REDUCTION	(RANK)	LOWER 5% UPPER 5%
CONT-LEAK	25	7.50E-01	( 3.0)	1.50E-08	( 2.0)	0.00E+00 1.15E-07
SUR-002-A-L	25	1.60E-01	( 4.0)	1.50E-08	( 2.0)	0.00E+00 1.15E-07
RPS	25	1.00E-05	( 25.0)	1.50E-08	( 2.0)	0.00E+00 1.15E-07
PA-NONE	8	1.00E+00	( 1.5)	1.32E-08	( 4.1)	
DG0-GEN-LF-FTS	1	2.50E-02	( 5.5)	2.88E-09	( 5.0)	0.00E+00 1.78E-08
AP037X3-R00-LFO	1	2.00E-02	( 8.5)	2.30E-09	( 6.0)	0.00E+00 7.08E-09
OPFAIL-SLCOX-56M	16	2.10E-03	( 22.5)	1.82E-09	( 7.0)	0.00E+00 1.03E-08
OPFAIL-VENT-20M	8	1.00E+00	( 1.5)	1.81E-09	( 8.0)	
DG0-G-UAM	1	6.00E-03	( 12.0)	6.91E-10	( 7.0)	0.00E+00 3.91E-09
DG0-JEN-CC-FTS	1	3.70E-03	( 13.5)	4.26E-10	( 10.0)	0.00E+00 1.22E-09
1EB413A-R00-CC	1	2.50E-03	( 18.0)	2.88E-10	( 12.0)	0.00E+00 1.05E-09
1EB412A-BCC-CC	1	2.50E-03	( 18.0)	2.88E-10	( 12.0)	0.00E+00 1.05E-09
1EB233A-BCC-AS	1	2.50E-03	( 18.0)	2.88E-10	( 12.0)	0.00E+00 1.05E-09
MFS-RESET-56M	6	2.10E-03	( 22.5)	5.51E-11	( 14.0)	0.00E+00 2.60E-10
RWCF004X-V00-CC	1	2.50E-03	( 18.0)	2.83E-11	( 15.0)	0.00E+00 7.40E-11
DG2A-GEN-LF-FTS	1	2.50E-02	( 5.5)	6.05E-12	( 16.0)	0.00E+00 3.11E-11
TDRFP-T-0E-56M	3	3.70E-03	( 13.5)	5.97E-12	( 17.0)	0.00E+00 8.50E-12
AP040X3-R00-LFO	1	2.00E-02	( 8.5)	4.84E-12	( 19.0)	0.00E+00 9.66E-12
AP040X2-R00-LFO	1	2.00E-02	( 8.5)	4.84E-12	( 19.0)	0.00E+00 9.66E-12
AP039X2-R00-LFO	1	2.00E-02	( 8.5)	4.84E-12	( 19.0)	0.00E+00 9.66E-12
DG2A-GEN-LF-FTR	1	1.90E-02	( 11.0)	4.60E-12	( 21.0)	0.00E+00 5.14E-12
ZVQ041A-VCC-CC	1	2.50E-03	( 18.0)	5.95E-14	( 23.0)	0.00E+00 9.49E-14
ZVQ036A-VCC-CC	1	2.50E-03	( 18.0)	5.95E-14	( 23.0)	0.00E+00 9.49E-14
ZVQ034B-VCC-CC	1	2.50E-03	( 18.0)	5.95E-14	( 23.0)	0.00E+00 9.49E-14
MODESWITCH-0E-56M	1	1.20E-03	( 24.0)	1.57E-15	( 25.0)	0.00E+00 1.35E-15



A.123

## RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RPS	25	1.00E-05 ( 25.0)	1.50E-03 ( 1.0)	0.00E+00	1.21E-02
OPFAIL-SLCOX-56M	16	2.10E-03 ( 22.5)	8.67E-07 ( 2.0)	0.00E+00	6.75E-06
1EB233A-BCC-AS	1	2.50E-03 ( 18.0)	1.15E-07 ( 4.0)	0.00E+00	7.57E-07
1EB412A-BCC-CC	1	2.50E-03 ( 18.0)	1.15E-07 ( 4.0)	0.00E+00	7.57E-07
1EB413A-BOD-CC	1	2.50E-03 ( 18.0)	1.15E-07 ( 4.0)	0.00E+00	7.57E-07
DGD-GEN-CC-FTS	1	3.70E-03 ( 13.5)	1.15E-07 ( 6.0)	0.00E+00	7.66E-07
DGD-G-UUM	1	6.00E-03 ( 12.0)	1.15E-07 ( 7.0)	0.00E+00	7.64E-07
AP037X3-ROO-LFO	1	2.00E-02 ( 8.5)	1.13E-07 ( 8.0)	0.00E+00	7.62E-07
DGD-GEN-LF-FTS	1	2.50E-02 ( 5.5)	1.12E-07 ( 9.0)	0.00E+00	7.47E-07
SUR-002-A-L	25	1.60E-01 ( 4.0)	7.88E-08 ( 10.0)	0.00E+00	3.39E-07
MFS-RESET-56M	6	2.10E-03 ( 22.5)	2.62E-08 ( 11.0)	0.00E+00	2.11E-07
RWCF004X-V00-CC	1	2.50E-03 ( 18.0)	1.13E-08 ( 12.0)	0.00E+00	5.60E-08
CONT-LEAK	25	7.50E-01 ( 3.0)	5.01E-09 ( 13.0)	0.00E+00	0.00E+00
TDRFP-T-OE-56M	3	3.70E-03 ( 13.5)	1.61E-09 ( 14.0)	0.00E+00	7.02E-09
DG2A-GEN-LF-1TR	1	1.90E-02 ( 11.0)	2.37E-10 ( 15.0)	0.00E+00	1.09E-09
AP040X3-ROO-LFO	1	2.00E-02 ( 8.5)	2.37E-10 ( 17.0)	0.00E+00	1.09E-09
AP039X2-ROO-LFO	1	2.00E-02 ( 8.5)	2.37E-10 ( 17.0)	0.00E+00	1.09E-09
DG2A-GEN-LF-FTS	1	2.50E-02 ( 5.5)	2.36E-10 ( 19.0)	0.00E+00	1.07E-09
2V0041A-VCC-CC	1	2.50E-03 ( 18.0)	2.38E-11 ( 21.0)	0.00E+00	1.07E-10
2V0036A-VCC-CC	1	2.50E-03 ( 18.0)	2.38E-11 ( 21.0)	0.00E+00	1.07E-10
2V0034B-VCC-CC	1	2.50E-03 ( 18.0)	2.38E-11 ( 21.0)	0.00E+00	1.07E-10
MODESWTCH-OE-56M	1	1.20E-03 ( 24.0)	1.30E-12 ( 23.0)	0.00E+00	1.60E-12
RA-NONE	8	1.00E+00 ( 1.5)	0.00E+00 ( 24.5)		
OPFAIL-VENT-20M	8	1.00E+00 ( 1.5)	0.00E+00 ( 24.5)		

A-123  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y. 05/TE.05*	Y. 05/TE.95*
SUR-002-A-L	25	1.60E-01 ( 4.0)	73.2	( 1.0)	NA	0.53
RPS	25	1.00E-05 ( 25.0)	8.1	( 2.0)	NA	1.05
CONT-LEAK	25	7.50E-01 ( 3.0)	7.2	( 3.0)	NA	0.75
DG0-GEN-LF-FTS	1	2.50E-02 ( 5.5)	3.1	( 4.5)	NA	0.89
DG2A-GEN-LF-FTS	1	2.50E-02 ( 5.5)	3.1	( 4.5)	NA	0.89
AP037X3-ROO-LFO	1	2.00E-02 ( 8.5)	1.5	( 7.5)	NA	1.09
AP040K3-ROO-LFO	1	2.00E-02 ( 8.5)	1.5	( 7.5)	NA	1.09
AP040K2-ROO-LFO	1	2.00E-02 ( 8.5)	1.5	( 7.5)	NA	1.09
AP039K2-ROO-LFO	1	2.00E-02 ( 8.5)	1.5	( 7.5)	NA	1.09
TDRFP-T-DE-56M	5	5.70E-03 ( 13.5)	1.2	( 10.0)	NA	1.00
DG2A-GEN-LF-FTR	1	1.90E-02 ( 11.0)	0.0	( 17.0)		
DG0-GEN-CC-FTS	1	3.70E-03 ( 13.5)	0.0	( 17.0)		
DG0-G-UJM	1	6.00E-03 ( 12.0)	0.0	( 17.0)		
2ND041A-VCC-CC	1	2.50E-03 ( 18.0)	0.0	( 17.0)		
1E8413A-ROO-CC	1	2.50E-03 ( 18.0)	0.0	( 17.0)		
RWCF004X-WOO-CC	1	2.50E-03 ( 18.0)	0.0	( 17.0)		
1E8412A-BCC-CC	1	2.50E-03 ( 18.0)	0.0	( 17.0)		
1E8233A-BCC-AS	1	2.50E-03 ( 18.0)	0.0	( 17.0)		
OPFAIL-SLCOX-56M	16	2.10E-03 ( 22.5)	0.0	( 17.0)		
2WG0356A-VCC-CC	1	2.50E-03 ( 18.0)	0.0	( 17.0)		
MODESWTCH-DE-56M	1	1.20E-03 ( 24.0)	0.0	( 17.0)		
HFS-RESET-56M	6	2.10E-03 ( 22.5)	0.0	( 17.0)		
2WG034B-VCC-CC	1	2.50E-03 ( 18.0)	0.0	( 17.0)		
PA-NONE	8	1.00E+00 ( 1.5)	0.0	( 17.0)		
OPFAIL-VENT-20M	8	1.00E+00 ( 1.5)	0.0	( 17.0)		

A. 123

CUT SET NUMBERS, CUT SET OPERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT ATWS-123 WITH TOP EVENT FREQUENCY 1.50E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	5	6.00E-09	0.39952	CONT-LEAK	* IE-T101	* RA-NONE	* RPS	*
3					SUR-002-A-L	*			*
4	2	6	2.88E-09	0.59128	CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	* RA-NONE	*
5					RPS	* SUR-002-A-L	*		*
6	3	6	2.30E-09	0.74470	AP037X3-R00-LFG	* CONT-LEAK	* IE-LOSP	* RA-NONE	*
7					RPS	* SUR-002-A-L	*		*
8	4	6	1.51E-09	0.84537	CONT-LEAK	* IE-T5	* OPFAIL-SLCOX-50M	* OPFAIL-VENT-20M	*
9					RPS	* SUR-002-A-L	*		*
10	5	6	6.91E-10	0.89140	CONT-LEAK	* DGO-G-UUM	* IE-LOSP	* RA-NONE	*
11					RPS	* SUR-002-A-L	*		*
12	6	6	4.26E-10	0.91978	CONT-LEAK	* DGO-GEN-CC-FTS	* IE-LOSP	* RA-NONE	*
13					RPS	* SUR-002-A-L	*		*
14	7	6	2.88E-10	0.93896	1E8413A-B00-CC	* CONT-LEAK	* IE-LOSP	* RA-NONE	*
15					RPS	* SUR-002-A-L	*		*
16	9	6	2.88E-10	0.95813	1E8412A-BCC-CC	* CONT-LEAK	* IE-LOSP	* RA-NONE	*
17					RPS	* SUR-002-A-L	*		*
18	8	6	2.88E-10	0.97731	1E8233A-BCC-AS	* CONT-LEAK	* IE-LOSP	* RA-NONE	*
19					RPS	* SUR-002-A-L	*		*
20	10	6	2.42E-10	0.99342	CON-LUMK	* IE-LOSP	* OPFAIL-SLCOX-50M	* OPFAIL-VENT-20M	*
21					RPS	* SUR-002-A-L	*		*

TEMAC RUN TIME IN CPU SECONDS 23.14

A. 126

TOP EVENT ATWS-126                    CONTAINS    16 EVENTS IN    7 CUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-126                    IS    3.98E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-126

N	300
MEAN	8.80E-09
STD DEV	3.15E-08
LOWER 5%	0.00E+00
LOWER 2.5%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	5.99E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNER MOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= (FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD \* EV(J)  
= TEF \* TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD \* RISK REDUCTION  
= PD \* (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) \* TEF

A-126  
 RISK REDUCTION BY DASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RPS	7	1.00E-05 ( 10.0)	3.98E-09 ( 1.5)	0.00E+00	5.99E-08
SUR-001-A-R	7	1.50E-01 ( 4.0)	3.98E-09 ( 1.5)	0.00E+00	5.99E-08
RA-NONE	3	1.00E+00 ( 1.5)	3.50E-09 ( 3.0)		
DGO-GEN-LF-FTS	1	2.50E-02 ( 5.0)	9.00E-10 ( 4.0)	0.00E+00	1.02E-08
AP037X3-RDG-LFO	1	2.00E-02 ( 6.0)	7.20E-10 ( 5.0)	0.00E+00	3.62E-09
OPFAIL-VENT-20M	4	1.00E+00 ( 1.5)	4.83E-10 ( 6.5)		
OPFAIL-SLCOK-56M	4	2.10E-03 ( 8.5)	4.83E-10 ( 6.5)	0.00E+00	3.97E-09
MFS-RESET-56M	2	2.10E-03 ( 8.5)	8.50E-12 ( 8.0)	0.00E+00	7.03E-11
TDRFP-T-DE-54M	1	3.70E-03 ( 7.0)	1.76E-12 ( 9.0)	0.00E+00	4.85E-12
CONT-LEAK	7	7.50E-01 ( 3.0)	-1.19E-08 ( 10.0)	0.00E+00	0.00E+00

A.126  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE	(RANK)	LOWER 5% UPPER 5%
RPS	7	1.00E-05 ( 10.0)	3.99E-04 (	1.0)	0.00E+00 8.32E-03
OPFAIL-SLCOX-56M	4	2.10E-03 ( 8.5)	2.29E-07 (	2.0)	0.00E+00 2.93E-06
AP037X3-R00-L/O	1	2.00E-02 ( 6.0)	3.53E-08 (	3.0)	0.00E+00 4.67E-07
DGD-GEN-LF-FTS	1	2.50E-02 ( 5.0)	3.51E-08 (	4.0)	0.00E+00 4.84E-07
SUR-001-A-R	7	1.50E-01 ( 4.0)	2.25E-08 (	5.0)	0.00E+00 2.56E-08
MFS-RESET-56M	2	2.10E-03 ( 8.5)	3.94E-09 (	6.0)	0.00E+00 3.35E-08
TDRFP-T-OE-56M	1	3.70E-03 ( 7.0)	4.79E-10 (	7.0)	0.00E+00 4.13E-09
RA-HONE	3	1.00E+00 ( 1.5)	0.00E+00 (	8.5)	
OPFAIL-VENT-20M	4	1.00E+00 ( 1.5)	-3.98E-09 (	10.0)	-5.99E-08 0.00E+00
CONT-LEAK	7	7.50E-01 ( 3.0)			

A.126

UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
CDWT-LEAK	7	7.50E-01 ( 3.0)	73.8	( 1.0)	NA	0.25
SUR-001-A-R	7	1.50E-01 ( 4.0)	62.7	( 2.0)	NA	0.20
TDRFP-T-OE-56M	1	3.70E-03 ( 7.0)	4.2	( 3.0)	NA	1.00
APD37X3-RDD-LFO	1	2.00E-02 ( 6.0)	2.1	( 4.0)	NA	0.87
DGD-GEN-LF-FTS	1	2.50E-02 ( 5.0)	0.0	( 6.5)		
OPFAIL-SLCOX-56M	4	2.10E-03 ( 8.5)	0.0	( 6.5)		
RPS	7	1.00E-05 ( 10.0)	0.0	( 6.5)		
MFS-RESET-56M	2	2.10E-03 ( 8.5)	0.0	( 6.5)		
RA-NONE	3	1.00E+00 ( 1.5)				
OPFAIL-VENT-20M	4	1.00E+00 ( 1.5)				

A-126

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT ATWS-126 WITH TOP EVENT FREQUENCY 3.98E-09

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	5	1.87E-09	0.47139	/CONT-LEAK	* 1E-1101	* RA-NONE	* RPS	*
3					SUR-001-A-R	*			
4	2	6	9.00E-10	0.69766	/CONT-LEAK	* DGD-GEN-LF-FTS	* 1E-LOSP	* RA-NONE	*
5					RPS	* SUR-001-A-R	*		
6	3	6	7.20E-10	0.87868	AP037X3-R00-LFO	* /CONT-LEAK	* 1E-LOSP	* RA-NONE	*
7					RPS	* SUR-001-A-R	*		
8	4	6	4.73E-10	0.99747	/CONT-LEAK	* 1E-T5	* OPFAIL-SLCOX-56M	* OPFAIL-VENT-20M	*
9					RPS	* SUR-001-A-R	*		
10	5	7	7.44E-12	0.99934	/CONT-LEAK	* 1E-11	* MFS-RESET-56M	* OPFAIL-SLCOX-56M	*
11					OPFAIL-VENT-20M	* RPS	* SUR-001-A-R	*	
12	6	7	1.78E-12	0.99978	/CONT-LEAK	* 1E-13	* OPFAIL-SLCOX-56M	* OPFAIL-VENT-20M	*
13					R-S	* SUR-001-A-R	* TTRFP-T-00-0M	*	
14	7	7	8.60E-13	1.00000	/CONT-LEAK	* 1E-12	* MFS-RESET-56M	* OPFAIL-SLCOX-56M	*
15					OPFAIL-VENT-20M	* RPS	* SUR-001-A-R	*	

TEMAC RUN TIME IN CPU SECONDS 16.69



A\_129

TOP EVENT ATWS-129      CONTAINS    28 EVENTS IN    27 CUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-129      IS    1.65E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-129

N	300
MEAN	1.55E-10
STD DEV	5.98E-10
LOWER 5%	4.60E-13
LOWER 25%	4.03E-12
MEDIAN	1.85E-11
UPPER 25%	8.00E-11
UPPER 5%	6.59E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD \cdot RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) \cdot TEF$

A 129  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SJR-002-A-V	27	6.30E-01 ( 2.0)	1.65E-10 ( 2.0)	4.66E-13	6.59E-10
OPFAL-SLCOX-33M	27	2.10E-03 ( 21.5)	1.65E-10 ( 2.0)	4.60E-13	6.59E-10
RPS	27	1.00E-05 ( 23.0)	1.65E-10 ( 2.0)	4.60E-13	6.59E-10
HFO4-GC-DQC-LF	4	6.00E-03 ( 11.0)	4.93E-11 ( 4.0)	1.40E-13	1.55E-10
DG2B-GEN-LF-FTS	1	2.50E-02 ( 3.0)	3.18E-11 ( 5.0)	8.08E-14	1.13E-10
1E4327NY-ROO-LFO	1	2.00E-02 ( 5.5)	2.54E-11 ( 6.5)	2.13E-14	6.74E-11
1E4327NK-ROO-LFO	1	2.00E-02 ( 5.5)	2.54E-11 ( 6.5)	2.13E-14	6.74E-11
DG2B-GEN-LF-FTR	1	1.90E-02 ( 8.0)	3.41E-11 ( 8.0)	2.13E-14	8.72E-11
PA-ATWS-1-3-3JM	12	1.80E-02 ( 9.5)	0.85E-12 ( 9.0)	1.21E-15	1.11E-11
HACTK9-ROO-LFO	5	2.00E-02 ( 5.5)	3.42E-12 ( 10.5)	6.07E-16	5.56E-12
HACTK3-ROO-LFO	5	2.00E-02 ( 5.5)	3.42E-12 ( 10.5)	6.07E-16	5.56E-12
MFS-RESET-33M	15	2.10E-03 ( 21.5)	3.26E-12 ( 12.0)	1.16E-15	1.80E-11
TDRFP-1-DE-33M	3	1.80E-02 ( 9.5)	9.76E-13 ( 13.0)	4.31E-16	2.11E-12
CSCC002-P-UJM	1	3.00E-03 ( 12.5)	3.75E-13 ( 14.5)	3.19E-17	1.42E-12
HCSG01C-P-UJM	1	3.00E-03 ( 12.5)	3.75E-13 ( 14.5)	3.19E-17	1.42E-12
HCSF015C-VCC-CS	1	2.50E-03 ( 18.0)	3.13E-13 ( 18.5)	3.64E-17	1.33E-12
HCSF004C-VCC-CS	1	2.50E-03 ( 18.0)	3.13E-13 ( 18.5)	3.64E-17	1.33E-12
HCSG001C-PMS-CS	1	2.50E-03 ( 18.0)	3.13E-13 ( 18.5)	3.64E-17	1.33E-12
SWY02CC-FMS-CC	1	2.50E-03 ( 18.0)	3.13E-13 ( 18.5)	3.64E-17	1.33E-12
CSCC002-PMS-CC	1	2.50E-03 ( 18.0)	3.13E-13 ( 18.5)	3.64E-17	1.33E-12
EE-CST-LVL	1	1.00E+00 ( 1.0)	3.13E-13 ( 18.5)	3.64E-17	1.33E-12
HACTK9CP7-LFOO	1	2.90E-03 ( 14.5)	6.53E-15 ( 22.5)	1.02E-19	1.76E-14
HACTK3CP9-LFOO	1	2.90E-03 ( 14.5)	6.53E-15 ( 22.5)	1.02E-19	1.76E-14

## RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK			
			INCREASE (RANK)	LOWER 5%	UPPER 5%	
RPS	27	1.00E-05 ( 23.0)	1.65E-05 ( 1.0)	3.49E-07	7.09E-05	
OPFAIL-SLCOX-33M	27	2.10E-03 ( 21.5)	7.85E-08 ( 2.0)	1.12E-09	2.58E-07	
HFO4CSC-QOC-LF	4	6.00E-03 ( 11.0)	8.17E-09 ( 3.0)	3.46E-11	3.02E-08	
NFS-RESET-33M	15	2.10E-03 ( 21.5)	1.55E-09 ( 4.0)	3.37E-12	5.00E-09	
DG2B-GEN-LF-FTR	1	1.90E-02 ( 8.0)	1.25E-09 ( 5.0)	4.78E-12	4.99E-09	
1E4327NY-ROO-LFO	1	2.00E-02 ( 5.5)	1.24E-09 ( 6.5)	5.05E-12	5.19E-09	
1E4327NX-ROO-LFO	1	2.00E-02 ( 5.5)	1.24E-09 ( 6.5)	5.05E-12	5.19E-09	
DG2B-GEN-LF-FTS	1	2.50E-02 ( 3.0)	1.24E-09 ( 8.0)	5.03E-12	5.22E-09	
RA-ATWS-1-3-33M	12	1.80E-02 ( 9.5)	3.74E-10 ( 9.0)	2.26E-13	7.63E-10	
HACTK9-ROO-LFO	5	2.00E-02 ( 5.5)	1.67E-10 ( 10.5)	1.78E-13	4.16E-10	
HACTK3-ROO-LFO	5	2.00E-02 ( 5.5)	1.67E-10 ( 10.5)	1.78E-13	4.16E-10	
HCSF004C-VCC-CS	1	2.50E-03 ( 18.0)	1.25E-10 ( 14.0)	6.15E-14	9.23E-10	
HCSC001C-PMS-CS	1	2.50E-03 ( 18.0)	1.25E-10 ( 14.0)	6.15E-14	9.23E-10	
HCSF015C-VCC-CS	1	2.50E-03 ( 18.0)	1.25E-10 ( 14.0)	6.15E-14	9.23E-10	
SWVY02CC-FMS-CC	1	2.50E-03 ( 18.0)	1.25E-10 ( 14.0)	6.15E-14	9.23E-10	
CSCC002-PMS-CC	1	2.50E-03 ( 18.0)	1.25E-10 ( 14.0)	6.15E-14	9.23E-10	
CSCC002-P-UUM	1	3.00E-03 ( 12.5)	1.25E-10 ( 17.5)	6.15E-14	9.24E-10	
HCSC001C-P-UUM	1	3.00E-03 ( 12.5)	1.25E-10 ( 17.5)	6.15E-14	9.24E-10	
SLR-002-A-V	27	6.30E-01 ( 2.0)	9.70E-11 ( 19.0)	3.72E-14	3.38E-10	
TDRFP-T-OE-33M	3	1.80E-02 ( 9.5)	5.33E-11 ( 20.0)	1.29E-13	1.51E-10	
HACTK9CP7-LFOO	1	2.90E-03 ( 14.5)	2.24E-12 ( 21.5)	2.96E-16	1.13E-11	
HACTK3CP9-LFOO	1	2.90E-03 ( 14.5)	2.24E-12 ( 21.5)	2.96E-16	1.13E-11	
EE-CST-LVL	1	1.00E+00 ( 1.0)	0.00E+00 ( 23.0)			

A\_129  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y_05/TE_05*	Y_95/TE_95*
RPS	27	1.00E-05	( 23.0)	38.4	( 1.0)	7.58	1.08
OPFAIL-SLCOX-33M	27	2.10E-03	( 21.5)	34.3	( 2.5)	5.25	0.81
MFS-RESET-33M	15	2.10E-03	( 21.5)	34.3	( 2.5)	5.25	0.81
SUR-002-A-V	27	6.30E-01	( 2.0)	15.1	( 4.0)	2.10	1.03
1E4327NX-R00-LFO	1	2.00E-02	( 5.5)	7.6	( 6.5)	1.43	0.95
HACTK9-R00-LFO	5	2.00E-02	( 5.5)	7.6	( 6.5)	1.43	0.95
HACTK3-R00-LFO	5	2.00E-02	( 5.5)	7.6	( 6.5)	1.43	0.95
1E4327NY-R00-LFO	1	2.00E-02	( 5.5)	7.6	( 6.5)	1.43	0.95
HCSF604C-VCC-CS	1	2.50E-03	( 18.0)	2.5	( 11.0)	0.99	1.00
HCS5001C-PMS-CS	1	2.50E-03	( 18.0)	2.5	( 11.0)	0.99	1.00
SMWY02CC-FM5-C	1	2.50E-03	( 18.0)	2.5	( 11.0)	0.99	1.00
CSC002-PMS-CC	1	2.50E-03	( 18.0)	2.5	( 11.0)	0.99	1.00
HCSF015C-VCC-CS	1	2.50E-03	( 18.0)	2.5	( 11.0)	0.99	1.00
DG2B-GEN-LF-FTR	1	1.90E-02	( 8.0)	2.4	( 14.0)	1.16	0.82
DG2B-GEN-LF-FTS	1	2.50E-02	( 3.0)	2.2	( 15.0)	1.18	0.95
MFO4CSC-00C-LF	4	6.00E-03	( 11.0)	1.4	( 16.0)	1.20	1.06
CSC002-P-UJM	1	3.00E-03	( 12.5)	0.0	( 19.5)		
HCS001C-P-UJM	1	3.00E-03	( 12.5)	0.0	( 19.5)		
TORFP-T-0E-33M	3	1.80E-02	( 9.5)	0.0	( 19.5)		
HACTK9CF7-LFOO	1	2.90E-03	( 14.5)	0.0	( 19.5)		
RA-ATWS-1-3-33M	12	1.80E-02	( 9.5)	0.0	( 19.5)		
HACTK3CP9-LFOO	1	2.90E-03	( 14.5)	0.0	( 19.5)		
EE-CST-LVL	1	1.00E+00	( 1.0)				

A\_129

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT ATWS-129 WITH TOP EVENT FREQUENCY 1.65E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	5	4.76E-11	0.28833	HF04CSC-QOC-LF	1E-T5	OPFAIL-SLCOX-33M	RPS	*
3					SUR-002-A-V				*
4	2	5	3.18E-11	0.48056	DG2B-GEN-LF-FTS	1E-LOSP	OPFAIL-SLCOX-33M	RPS	*
5					SUR-002-A-V				*
6	3	5	2.54E-11	0.63433	1E4327NX-R00-LFO	1E-LOSP	OPFAIL-SLCOX-33M	RPS	*
7					SUR-002-A-V				*
8	4	5	2.54E-11	0.78811	1E4327NY-R00-LFO	1E-LOSP	OPFAIL-SLCOX-33M	RPS	*
9					SUR-002-A-V				*
10	5	5	2.41E-11	0.93420	DG2B-GEN-LF-FTR	1E-LOSP	OPFAIL-SLCOX-33M	RPS	*
11					SUR-002-A-V				*
12	7	6	2.86E-12	0.95150	HACTK3-R00-LFO	1E-T5	OPFAIL-SLCOX-33M	RA-ATWS-1-3-33M	*
13					RPS				*
14	6	6	2.86E-12	0.96680	HACTK9-R00-LFO	SUR-002-A-V	OPFAIL-SLCOX-33M	RA-ATWS-1-3-33M	*
15					RPS				*
16	8	6	8.72E-13	0.97408	HF04CSC-QOC-LF	1E-T5	MFS-RESET-33M	OPFAIL-SLCOX-33M	*
17					SUR-002-A-V				*
18	9	6	7.50E-13	0.97862	HF04CSC-QOC-LF	1E-T3	OPFAIL-SLCOX-33M	RPS	*
19					RPS	TDFFP-T-DE-33M			*
20	11	6	4.57E-13	0.98139	HACTK9-R00-LFO	1E-T1	OPFAIL-SLCOX-33M	RA-ATWS-1-3-33M	*
21					RPS				*
22	10	6	4.57E-13	0.98415	HACTK3-R00-LFO	1E-LOSP	OPFAIL-SLCOX-33M	RA-ATWS-1-3-33M	*
23					RPS				*
24	13	6	3.75E-13	0.98642	HCSC001C-P-UUM	SUR-002-A-V	MFS-RESET-33M	OPFAIL-SLCOX-33M	*
25					RPS				*
26	12	6	3.75E-13	0.98869	CSCC002-P-UUM	1E-T1	MFS-RESET-33M	OPFAIL-SLCOX-33M	*
27					RPS				*
28	18	6	3.13E-13	0.99059	1E-11	SUR-002-A-V	OPFAIL-SLCOX-33M	RPS	*
29					SUR-002-A-V				*
30	15	6	3.13E-13	0.99248	HCSE004C-VCC-CS	1E-T1	MFS-RESET-33M	OPFAIL-SLCOX-33M	*
31					RPS	SMY02CC-FMS-CC			*
32	14	7	3.13E-13	0.99437	EE-CST-LVL	SUR-002-A-V	1E-T1	MFS-RESET-33M	*
33					OPFAIL-SLCOX-33M				*
34	17	6	3.13E-13	0.99626	CSCC002-PMS-CC	1E-T1	MFS-RESET-33M	OPFAIL-SLCOX-33M	*
35					RPS				*
36	16	6	3.13E-13	0.99816	HCSC001C-FMS-CS	1E-T1	MFS-RESET-33M	OPFAIL-SLCOX-33M	*
37					RPS				*
38	19	6	8.67E-14	0.99868	HF04CSC-QOC-LF	1E-T2	MFS-RESET-33M	OPFAIL-SLCOX-33M	*
39					RPS				*

TEMAC RUN TIME IN CPU SECONDS 28.90

A\_132

TOP EVENT ATWS 132      CONTAINS      8 EVENTS IN      1 OUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-132      IS      2.94E-15

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-132

N	300
MEAN	8.08E-15
STD DEV	9.76E-14
LOWER 5%	7.04E-20
LOWER 25%	1.92E-18
MEDIAN	2.25E-17
UPPER 25%	2.26E-16
UPPER 5%	1.01E-14

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD \* EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD \* (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

A. 13.  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
MFS-RESET-45M	1	2.10E-03 ( 5.5)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
DPFAIL-SLCOX-45M	1	2.10E-03 ( 5.5)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
DPFAIL-VENT-70M	1	1.00E+00 ( 1.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
RA-AWS-1-3-45M	1	7.40E-03 ( 4.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
RPS	1	1.00E-05 ( 7.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
SUR-001-A-C	1	1.00E-01 ( 2.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
HACTK9-ROO-LFO	1	2.00E-02 ( 3.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14

A 132  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE	(RANK)	LOWER 5% UPPER 5%
RPS	1	1.00E-05 ( 7.0)	2.94E-10 ( 1.0)	2.34E-14	1.61E-09
OPFAIL-SLCOX-4SM	1	2.10E-03 ( 5.5)	1.40E-12 ( 2.5)	1.47E-16	2.95E-12
MFS-RESET-4SM	1	2.10E-03 ( 5.5)	1.40E-12 ( 2.5)	1.47E-16	2.95E-12
RA-ATWS-1-3-4SM	1	7.40E-03 ( 4.0)	3.94E-13 ( 4.0)	4.36E-17	1.53E-12
RACK9-ROO-LFO	1	2.00E-02 ( 3.0)	1.44E-13 ( 5.0)	1.30E-17	4.30E-13
SUR-001-A-C	1	1.00E-01 ( 2.0)	2.64E-14 ( 6.0)	1.07E-18	7.75E-14
OPFAIL-VENT-10M	1	1.00E+00 ( 1.0)	0.00E+00 ( 7.0)		



A.132  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (CRANK)	RISK		
			REDUCTION (RANK)	LOMEF %	UPPER 5%
MFS-RESET-45M	1	2.10E-03 ( 5.5)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
OPFAIL-SLCOX-45M	1	2.10E-03 ( 5.5)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
OPFAIL-VENT-10M	1	1.00E+00 ( 1.0)	2.94E-15 ( 4.0)		
RA-ATMS-1-3-45M	1	7.60E-03 ( 4.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
RPS	1	1.00E-05 ( 7.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
SUP-001-A-C	1	1.00E-01 ( 2.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14
HACTP-ROO-LFD	1	2.00E-02 ( 3.0)	2.94E-15 ( 4.0)	7.04E-20	1.01E-14

A\_132

UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	COB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
		OF LOG RISK	(RANK)		
MFS-RESET-45M	1.00E-03 ( 5.5)	42.0	( 1.5)	8.65	0.54
OPFAIL-SLCOX-43x	1.00E-03 ( 5.5)	42.0	( 1.5)	8.65	0.54
HACTK9-RDD-LFD	1.00E-02 ( 3.0)	19.9	( 3.0)	3.80	0.89
RA-ATWS-1-3-45M	1 7.40E-03 ( 4.0)	17.5	( 4.0)	4.85	1.13
7-9S	1 1.00E-05 ( 7.0)	14.4	( 5.0)	3.33	1.60
7-10-001-A-C	1 1.00E-01 ( 2.0)	4.0	( 6.0)	1.77	0.86
7-10-001-VENT-10M	1 1.00E-01 ( 2.0)	4.0	( 6.0)	1.77	0.86

A\_132

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-132 WITH TOP EVENT FREQUENCY 2.94E-15

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	8	2.94E-15	1.00000	HACTK9-ROD-LFO *	IE-T1 *	MFS-RESET-45M *	OFFAIL-SLCOX-45M *
3					OFFAIL-VENT-TOM *	RR-ATWS-1-3-45M *	RPS *	SUR-001-A-C *

TEMAC RUN TIME IN CPU SECONDS 21.63

A.148

TOP EVENT ATWS-148      CONTAINS      6 EVENTS IN      2 OUT SETS

THE FREQUENCY OF TOP EVENT ATWS-148      IS      1.4E-12

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-148

N	300
MEAN	6.55E-13
STD DEV	2.15E-12
LOWER 5%	5.61E-16
LOWER 25%	7.29E-15
MEDIAN	4.24E-14
UPPER 25%	2.72E-13
UPPER 5%	3.06E-12

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, \* DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(\text{EVALUATED WITH } EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - \text{RISK REDUCTION}$   
=  $PD \times (1 - EV(J))$   
=  $TEF(\text{EVALUATED WITH } EV(J) = 1) - TEF$

A.14B  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5% UPPER 5%	
RA-ATWS-1-3-45M	2	7.40E-03 ( 4.0)	1.48E-12 ( 2.0)	5.61E-16 3.06E-12	
RPS	2	1.00E-05 ( 5.0)	1.48E-12 ( 2.0)	5.61E-16 3.06E-12	
SUR-001-A-C	2	1.00E-01 ( 1.0)	1.48E-12 ( 2.0)	5.61E-16 3.06E-12	
HACTK3-R00-LFO	1	2.00E-02 ( 1.5)	7.40E-13 ( 4.5)	2.81E-16 1.53E-12	
HACTK3-R00-LFO	1	2.00E-02 ( 2.5)	7.40E-13 ( 4.5)	2.81E-16 1.53E-12	

A.148

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
OPS	2	1.00E-05 ( 5.0)	1.48E-07 ( 1.0)	2.78E-10	3.54E-07
RA-ATWS-1-3-45M	2	7.40E-03 ( 4.0)	1.99E-10 ( 2.0)	2.94E-13	5.96E-10
HACK3-ROO-LFO	1	2.00E-02 ( 2.5)	3.63E-11 ( 3.5)	5.23E-14	9.32E-11
1 K9-ROO-LFO	1	2.00E-02 ( 2.5)	3.63E-11 ( 3.5)	5.23E-14	9.32E-11
SU-001-A-C	2	1.00E-01 ( 1.0)	1.33E-11 ( 5.0)	8.30E-15	3.72E-11

A-148  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
 -----

BASE EVENT	OCCUR	PROB (RANK)	Y. 05/TE.05*	Y. 95/TE.95*
RA-ATWS-1-3-45M	2	7.40E-03 ( 4.0)	3.91	1.45
HACTK9-RDC-LFO	1	2.00E-02 ( 2.5)	4.07	1.25
HACTK3-RDC-LFO	1	2.00E-02 ( 2.5)	4.07	1.25
RPS	2	1.00E-05 ( 5.0)	4.95	1.16
SUR-001-A-C	2	1.00E-01 ( 1.0)	1.68	1.35

% REDUCTION IN  
 THE UNCERTAINTY  
 OF LOG RISK

(RANK)

A.148

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-148 WITH TOP EVENT FREQUENCY 1.48E-12

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	2	5	7.40E-13	0.50000	HACTK9-R00-LFO	* 1E-C101	* RA-ATWS-1-3-45M	* RPS	*
3					SUR-001-A-C	*			*
4	1	5	7.40E-13	1.00000	HACTK3-R00-LFO	* 1E-T101	* RA-ATWS-1-3-45M	* RPS	*
5					SUR-001-A-C	.			*

TEMAC RUN TIME IN CPU SECONDS 15.64



A.1.

EVENT ATWS-15 CONTAINS 11 EVENTS IN 5 OUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-15 IS 2.02E-11

DESCRIPTIVE STATIST CS FOR THE FREQUENCY OF TOP EVENT ATWS-15

N	J00
MEAN	2.74E-11
STD DEV	1.42E-10
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.17E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES MOST PROBABLE VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR DERIVATIVES AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

A.15  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		PPER 5%
			REDUCTIO	UPPER 5%	
VENT-LEAK	5	1.00E-01 ( 2.0)	2.02E-11 ( 2.0)	1.17E-10	
SUR-001-A-L	5	1.50E-03 ( 5.0)	2.02E-11 ( 2.0)	1.17E-10	
OPFAIL-SLCOX-59M	5	2.10E-03 ( 4.0)	2.02E-11 ( 2.0)	1.17E-10	
RPS	5	1.00E-05 ( 6.0)	2.02E-11 ( 2.0)	1.17E-10	
OPFAIL-VENT-20M	5	1.00E+00 ( 1.0)	2.02E-11 ( 2.0)	1.17E-10	
OPFAILSMFN-8M	5	5.00E-01 ( 3.0)	-2.02E-11 ( 6.0)	0.00E+00	

A-15

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		
				INCREASE	(RANK)	LOWER 5% UPPER 5%
RPS	5	1.00E-05	( 6.0)	2.02E-06	( 1.0)	0.00E+00 1.17E-05
SUR-001-A-1	5	1.50E-03	( 5.0)	1.34E-08	( 2.0)	0.00E+00 6.05E-08
OPFAIL-SLCOX-59M	5	2.10E-03	( 4.0)	9.60E-09	( 3.0)	0.00E+00 8.99E-08
CONT-LEAK	3	7.50E-01	( 2.0)	6.73E-12	( 4.0)	0.00E+00 0.00E+00
OPFAIL-VENT-20M	5	1.00E+00	( 1.0)	0.00E+00	( 5.0)	
OPFAILSMFW-8M	5	5.00E-01	( 3.0)	-2.02E-11	( 6.0)	-1.17E-10 0.00E+00

A.15

UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
RPS	5	1.00E-05 ( 6.0)	7.6	( 1.0)	NA	1.00
CONT-/EAK	5	7.50E-01 ( 2.0)	2.4	( 2.0)	NA	0.75
OPFAIL-SLCOX-59M	5	2.10E-03 ( 4.0)	1.8	( 3.0)	NA	1.62
OPFAILSMFW-BM	5	5.00E-01 ( 3.0)	1.0	( 4.0)	NA	0.95
SUR-001-A-L	5	1.50E-03 ( 0)	0.1	( 5.0)	NA	0.78
OPFAIL-VENT-20M	5	1.00E+00 ( 1.0)				

A.15

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-15 WITH TOP EVENT FREQUENCY 2.02E-11

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	7.21E-12	0.35673	CONT-LEAK	* 1E-13	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
3					/OPFAILSMFW-8M	* RPS	* SUP-001-A-L	+	
4	2	7	6.14E-12	0.66082	CONT-LEAK	* 1E-12	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
5					/OPFAILSMFW-8M	* RPS	* SUR-001-A-L	+	
6	3	7	4.84E-12	0.90058	CONT-LEAK	* 1E-14	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
7					/OPFAILSMFW-8M	* RPS	* SUR-001-A-L	+	
8	4	7	1.65E-12	0.98246	CONT-LEAK	* 1E-17	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
9					/OPFAILSMFW-8M	* RPS	* SUR-001-A-L	+	
10	5	7	3.54E-13	1.00000	CONT-LEAK	* 1E-SLOCA	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
11					/OPFAILSMFW-8M	* RPS	* SUP-001-A-L	+	

TEMAC RUN TIME IN CPU SECONDS 16.21

A\_18

TOP EVENT ATWS-185      CONTAINS      11 EVENTS IN      5 OUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-185      IS      6.73E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-185

N	300
MEAN	1.41E-09
STD DEV	7.58E-09
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	5.67E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT - FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

A-18  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)  
 -----

BASE EVENT	OCCUR	PROB	(RANK)	RISK		LOWER 5%	UPPER 5%
				REDUCTION (RANK)	REDUCTION (RANK)		
SUR-001-A-R	5	1.50E-01	( 4.0)	6.73E-10	( 2.5)	0.00E+00	6.67E-09
OPFAIL-VENT-20M	5	1.00E+00	( 1.0)	6.73E-10	( 2.5)		
OPFAIL-SLCOX-59M	5	2.10E-03	( 5.0)	6.73E-10	( 2.5)	0.00E+00	6.67E-09
RPS	5	1.00E-05	( 6.0)	6.73E-10	( 2.5)	0.00E+00	6.67E-09
OPFAILSMFM-8M	5	5.00E-01	( 3.0)	-6.73E-10	( 5.0)	-4.52E-09	0.00E+00
CONT-LEAK	5	7.50E-01	( 2.0)	-2.02E-09	( 6.0)	0.00E+00	0.00E+00

A.18  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	RISK	
				LOWER 5%	UPPER 5%
RPS	5	1.00E-05 ( 6.0)	6.73E-05 ( 1.0)	0.00E+00	1.38E-03
OPFAIL-SLCOX-59M	5	2.10E-03 ( 5.0)	3.20E-07 ( 2.0)	0.00E+00	6.17E-06
SUR-001-A-R	5	1.50E-01 ( 4.0)	3.82E-09 ( 3.0)	0.00E+00	4.33E-09
OPFAIL-VENT-20M	5	1.00E+00 ( 1.0)	0.00E+00 ( 4.0)		
OPFAILSMFW-8M	5	5.00E-01 ( 3.0)	-6.73E-10 ( 5.5)	-6.67E-09	0.00E+00
CONT-LEAK	5	7.50E-01 ( 2.0)	-6.73E-10 ( 5.5)	-6.67E-09	0.00E+00



A-18  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
 -----

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y. 05/TE. 05*	Y. 95/TE. 95*
CONT-LEAK	5	7.50E-01	( 2.0)	44.8	( 1.0)	NA	0.25
SUR-001-A-R	5	1.50E-01	( 4.0)	39.9	( 2.0)	NA	0.31
OPFAIL-SMFW-BM	5	5.00E-01	( 3.0)	12.6	( 3.0)	NA	0.93
RPS	5	1.00E-05	( 6.0)	1.9	( 4.0)	NA	2.07
OPFAIL-SLCOX-5PM	5	2.10E-03	( 5.0)	1.7	( 5.0)	NA	1.94
OPFAIL-VENT-20M	5	1.00E+00	( 1.0)				

A\_18

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-185 WITH TOP EVENT FREQUENCY 6.73E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	2.40E-10	0.35673	/CONT-LEAK	* 1E-T3	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
3					/OPFAILSMFW-8M	* RPS	* SUR-001-A-R	*	
4	2	7	2.05E-10	0.66082	/CONT-LEAK	* 1E-T2	* OPFAIL-SLCUX-59M	* OPFAIL-VENT-20M	*
5					/OPFAILSMFW-8M	* RPS	* SUR-001-A-R	*	
6	3	7	1.61E-10	0.90058	/CONT-LEAK	* 1E-T4	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
7					/OPFAILSMFW-8M	* RPS	* SUR-001-A-R	*	
8	4	7	5.51E-11	0.98246	/CONT-LEAK	* 1E-T7	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
9					/OPFAILSMFW-8M	* RPS	* SUR-001-A-R	*	
10	5	7	1.18E-11	1.00000	/CONT-LEAK	* 1E-SLOCA	* OPFAIL-SLCOX-59M	* OPFAIL-VENT-20M	*
11					/OPFAILSMFW-8M	* RPS	* SUR-001-A-R	*	

TEMAC RUN TIME IN CPU SECONDS 19.59

A.22

TOP EVENT ATWS-22                    CONTAINS    25 EVENTS IN    35 DUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-22    IS    1.03E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-22

N	300
MEAN	2.61E-09
STD DEV	1.99E-08
LOWER 5%	9.51E-13
LOWER 25%	1.61E-11
MEDIAN	8.31E-11
UPPER 25%	5.05E-10
UPPER 5%	8.14E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

A.22

## RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
OPFAILSMFW-BM	35	5.00E-01 ( 8.0)	1.03E-09 ( 2.0)	9.51E-13	8.14E-09
SUR-001-A-V	35	6.10E-01 ( 7.0)	1.03E-09 ( 2.0)	9.51E-13	8.14E-09
RPS	35	1.00E-05 ( 22.0)	1.03E-09 ( 2.0)	9.51E-13	8.14E-09
OP-F-INITSPC-5H	3	2.10E-03 ( 20.0)	9.86E-10 ( 4.5)	8.62E-13	7.42E-09
OP-F-INITCSS-5H	3	1.00E-01 ( 9.0)	9.86E-10 ( 4.5)	8.62E-13	7.42E-09
RA-ATWS-1-1-5H	30	2.10E-03 ( 20.0)	4.34E-11 ( 6.0)	1.77E-15	2.75E-10
LAK1BRRB-ROO-LFO	10	2.00E-02 ( 14.0)	1.45E-11 ( 7.5)	5.90E-16	9.17E-11
LAK9BRCB-ROO-LFO	10	2.00E-02 ( 14.0)	1.45E-11 ( 7.5)	5.90E-16	9.17E-11
FLOW-RHR-B3	8	1.00E+00 ( 3.5)	1.16E-11 ( 10.5)		
LAK1BARA-ROO-LFO	8	2.00E-02 ( 14.0)	1.16E-11 ( 10.5)	4.72E-16	7.34E-11
LAK9ARCA-ROO-LFO	8	2.00E-02 ( 14.0)	1.16E-11 ( 10.5)	4.72E-16	7.34E-11
LAK93BRC-ROO-LFO	8	2.00E-02 ( 14.0)	1.16E-11 ( 10.5)	4.72E-16	7.34E-11
FLOW-RHR-A3	6	1.00E+00 ( 3.5)	8.69E-12 ( 14.0)		
LAK10RCA-ROO-LFO	6	2.00E-02 ( 14.0)	8.69E-12 ( 14.0)	3.54E-16	5.50E-11
LAK93ARC-ROO-LFO	6	2.00E-02 ( 14.0)	8.69E-12 ( 14.0)	3.54E-16	5.50E-11
NOFLOW-SPC-B5X	4	1.00E+00 ( 3.5)	5.79E-12 ( 18.5)		
NOFLOW-SPC-A5X	4	1.00E+00 ( 3.5)	5.79E-12 ( 18.5)		
NOFLOW-CSS-B7A	4	1.00E+00 ( 3.5)	5.79E-12 ( 18.5)		
NOFLOW-CSS-A7A	4	1.00E+00 ( 3.5)	5.79E-12 ( 18.5)		
LAK14BRC-RCO-LFO	4	2.00E-02 ( 14.0)	5.79E-12 ( 18.5)	2.36E-16	3.67E-11
LAK14ARC-RCO-LFO	4	2.00E-02 ( 14.0)	5.79E-12 ( 18.5)	2.36E-16	3.67E-11
RA-ATWS-2-1-5H	2	2.10E-03 ( 20.0)	2.90E-12 ( 22.0)	1.18E-16	1.83E-11

A.22

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RPS	35	1.00E-05 ( 22.0)	1.03E-04 ( 1.0)	5.76E-07	1.44E-03
OP-F-INITSPC-5H	3	2.10E-03 ( 20.0)	4.69E-07 ( 2.0)	2.52E-09	1.99E-06
RA-ATWS-1-1-5H	30	2.10E-03 ( 20.0)	2.06E-08 ( 3.0)	1.86E-12	2.00E-07
OP-F-INITCSS-5H	3	1.00E-01 ( 9.0)	8.88E-09 ( 4.0)	3.39E-11	2.88E-06
RA-ATWS-2-1-5H	2	2.10E-03 ( 20.0)	1.38E-09 ( 5.0)	1.24E-13	1.33E-06
DPFALLSMFW-8M	35	5.00E-01 ( 8.0)	1.03E-09 ( 6.0)	7.32E-13	6.87E-09
LAK18BRB-ROO-LFO	10	2.00E-02 ( 14.0)	7.09E-10 ( 7.5)	4.60E-13	2.17E-09
LAK9BRCB-ROO-LFO	10	2.00E-02 ( 14.0)	7.09E-10 ( 7.5)	4.60E-13	2.17E-09
SUR-001-A-V	35	6.10E-01 ( 7.0)	6.60E-10 ( 9.0)	2.22E-13	3.27E-09
LAK18ARA-ROO-LFO	8	2.00E-02 ( 14.0)	5.67E-10 ( 11.0)	3.68E-13	1.74E-09
LAK9ARCA-ROO-LFO	8	2.00E-02 ( 14.0)	5.67E-10 ( 11.0)	3.68E-13	1.74E-09
LAK93BRC-ROO-LFO	8	2.00E-02 ( 14.0)	5.67E-10 ( 11.0)	3.68E-13	1.74E-09
LAK10RCA-ROO-LFO	6	2.00E-02 ( 14.0)	4.26E-10 ( 13.5)	2.76E-13	1.30E-09
LAK93ARC-ROO-LFO	6	2.00E-02 ( 14.0)	4.26E-10 ( 13.5)	2.76E-13	1.30E-09
LAK14BRC-ROO-LFO	4	2.00E-02 ( 14.0)	2.84E-10 ( 15.5)	1.84E-13	8.68E-10
LAK14ARC-ROO-LFO	4	2.00E-02 ( 14.0)	2.84E-10 ( 15.5)	1.84E-13	8.68E-10
NOFLOW-SPC-B5X	4	1.00E+00 ( 3.5)	0.00E+00 ( 19.5)		
NOFLOW-SPC-A5X	4	1.00E+00 ( 3.5)	0.00E+00 ( 19.5)		
NOFLOW-CSS-B7A	4	1.00E+00 ( 3.5)	0.00E+00 ( 19.5)		
NOFLOW-CSS-A7A	4	1.00E+00 ( 3.5)	0.00E+00 ( 19.5)		
FLOW-RHR-B3	8	1.00E+00 ( 3.5)	0.00E+00 ( 19.5)		
FLOW-RHR-A3	6	1.00E+00 ( 3.5)	0.00E+00 ( 19.5)		

A-110

A.22

UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY			
			OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*	
RA-ATWS-2-1-5H	2	2.10E-03 ( 20.0)	54.9 ( 2.0)	7.72	0.59	
OP-F-INITSPC-5H	3	2.10E-03 ( 20.0)	54.9 ( 2.0)	7.72	0.59	
RA-ATWS-1-1-5H	30	2.10E-03 ( 20.0)	54.9 ( 2.0)	7.72	0.59	
OP-F-INITCSS-5H	3	1.00E-01 ( 9.0)	54.4 ( 4.0)	3.83	0.53	
RPS	35	1.00E-05 ( 22.0)	26.9 ( 5.0)	6.06	1.77	
SUR-001-A-V	35	6.10E-01 ( 7.0)	10.1 ( 6.0)	1.49	0.86	
OPFAILSMFW-8M	35	5.00E-01 ( 8.0)	6.4 ( 7.0)	1.60	0.92	
LAK188RB-ROO-LFO	10	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK10RCA-ROO-LFO	6	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK18ARA-ROO-LFO	8	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK9BRCB-ROO-LFO	10	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK9ARCA-ROO-LFO	8	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK14BRC-RCD-LFO	4	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK93BRC-ROO-LFO	8	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK93ARC-ROO-LFO	6	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
LAK14ARC-RCD-LFO	4	2.00E-02 ( 14.0)	2.0 ( 12.0)	1.11	0.95	
NOFLOW-SPC-B5X	4	1.00E+00 ( 3.5)				
NOFLOW-SPC-A5X	4	1.00E+00 ( 3.5)				
NOFLOW-CSS-B7A	4	1.00E+00 ( 3.5)				
NOFLOW-CSS-A7A	4	1.00E+00 ( 3.5)				
FLOW-RHR-B3	8	1.00E+00 ( 3.5)				
FLOW-RHR-A3	6	1.00E+00 ( 3.5)				

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42	14	9	1.56E-12	0.97936	IE-T3	* LAK14ARC-RCD-LFO	* LAK18BRB-R00-LFO	* NOFLOW-CSS-A7A	*
43					NOFLOW-SPC-A5X	* OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	*
44					SUR-001-A-V	+			
45	30	9	1.33E-12	0.98065	IE-T2	* LAK14BRC-RCD-LFO	* LAK9ARCA-R00-LFO	* NOFLOW-CSS-07A	*
46					NOFLOW-SPC-B5X	* OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	*
47					SUR-001-A-V	+			
48	29	7	1.33E-12	0.98194	IE-T2	* LAK18BRB-R00-LFO	* LAK9ARCA-R00-LFO	* OPFAILSMFW-BM	*
49					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	+	
50	28	7	1.33E-12	0.98323	IE-T2	* LAK10RCA-R00-LFO	* LAK9BRCB-R00-LFO	* OPFAILSMFW-BM	*
51					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	+	
52	26	8	1.33E-12	0.98452	FLOW-RHR-B3	* IE-T2	* LAK10RCA-R00-LFO	* LAK93BRC-R00-LFO	*
53					OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
54	25	7	1.33E-12	0.98581	IE-T2	* LAK18ARA-R00-LFO	* LAK9BRCB-R00-LFO	* OPFAILSMFW-BM	*
55					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	+	
56	24	7	1.33E-12	0.98710	IE-T2	* LAK10RCA-R00-LFO	* LAK18BRB-R00-LFO	* OPFAILSMFW-BM	*
57					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	+	
58	27	7	1.33E-12	0.98839	IE-T2	* LAK9ARCA-R00-LFO	* LAK9CRCB-R00-LFO	* OPFAILSMFW-BM	*
59					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	+	
60	23	8	1.33E-12	0.98968	FLOW-RHR-B3	* IE-T2	* LAK93BRC-R00-LFO	* LAK9ARCA-R00-LFO	*
61					OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
62	22	8	1.33E-12	0.99097	FLOW-RHR-A3	* IE-T2	* LAK93ARC-R00-LFO	* LAK9BRCB-R00-LFO	*
63					OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
64	21	8	1.33E-12	0.99226	FLOW-RHR-B3	* IE-T2	* LAK18ARA-R00-LFO	* LAK93BRC-R00-LFO	*
65					OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
66	31	7	1.33E-12	0.99355	IE-T2	* LAK18ARA-R00-LFO	* LAK18BRB-R00-LFO	* OPFAILSMFW-BM	*
67					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	+	
68	20	8	1.33E-12	0.99484	FLOW-RHR-A3	* IE-T2	* LAK18BRB-R00-LFO	* LAK93ARC-R00-LFO	*
69					OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
70	35	9	1.33E-12	0.99613	IE-T2	* LAK14ARC-RCD-LFO	* LAK18BRB-R00-LFO	* NOFLOW-CSS-A7A	*
71					NOFLOW-SPC-A5X	* OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	*
72					SUR-001-A-V	+			
73	34	9	1.33E-12	0.99742	IE-T2	* LAK14BRC-RCD-LFO	* LAK18ARA-R00-LFO	* NOFLOW-CSS-B7A	*
74					NOFLOW-SPC-B5X	* OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	*
75					SUR-001-A-V	+			
76	33	9	1.33E-12	0.99871	IE-T2	* LAK14ARC-RCD-LFO	* LAK9BRCB-R00-LFO	* NOFLOW-CSS-A7A	*
77					NOFLOW-SPC-A5X	* OPFAILSMFW-BM	* RA-ATWS-1-1-5H	* RPS	*
78					SUR-001-A-V	+			
79	32	9	1.33E-12	1.00000	FLOW-RHR-A3	* FLOW-RHR-B3	* IE-T2	* LAK93ARC-R00-LFO	*
80					LAK93BRC-R00-LFO	* OPFAILSMFW-BM	* RA-ATWS-2-1-5H	* RPS	*
81					SUR-001-A-V	+			

TEMAC RUN TIME IN CPU SECONDS 23.45



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TOP EVENT ATWS-49 CONTAINS 32 EVENTS IN 46 CUT SETS

THE FREQUENCY OF TOP EVENT ATWS-49 IS 5.52E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-49

N	300
MEAN	8.94E-08
STD DEV	4.48E-07
LOWER 5%	3.98E-10
LOWER 25%	3.14E-09
MEDIAN	1.11E-08
UPPER 25%	4.91E-08
UPPER 5%	2.48E-07

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

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## RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-001-A-V	46	6.10E-01 ( 4.0)	5.52E-08 ( 2.0)	3.98E-10	2.48E-07
RPS	46	1.00E-05 ( 23.0)	5.52E-08 ( 2.0)	3.98E-10	2.48E-07
OPFAIL-SMFW-BM	46	5.00E-01 ( 5.5)	5.52E-03 ( 2.0)	3.98E-10	2.48E-07
RA-NONE	18	1.00E+00 ( 2.0)	3.08E-08 ( 4.0)		
RWCF004X-VOO-CC	4	2.50E-03 ( 13.5)	1.28E-08 ( 5.0)	2.91E-11	5.09E-08
OPFAIL-SLC0X-56M	9	2.10E-03 ( 15.5)	1.14E-08 ( 6.0)	4.05E-11	4.53E-08
SAK6ARCX-RCO-LFO	4	3.90E-02 ( 8.5)	7.79E-09 ( 9.0)	2.23E-12	5.93E-08
SAK2ARCX-RCO-LFO	4	3.90E-02 ( 8.5)	7.79E-09 ( 9.0)	2.23E-12	5.93E-08
SAK6BRCX-RCO-LFO	4	3.90E-02 ( 8.5)	7.79E-09 ( 9.0)	2.23E-12	5.93E-08
SAK2BRCX-RCO-LFO	4	3.90E-02 ( 8.5)	7.79E-09 ( 9.0)	2.23E-12	5.93E-08
RA-ATWS-12-3-10M	4	1.00E+00 ( 2.0)	7.79E-09 ( 9.0)		
SLCC001A-R000105	3	1.10E-03 ( 17.5)	5.17E-09 ( 12.5)	1.53E-11	1.93E-08
RA-ATW-11-11-30M	3	1.00E+00 ( 2.0)	5.17E-09 ( 12.5)		
SLCC001A-P-T0001	3	1.00E-03 ( 19.0)	4.70E-09 ( 14.0)	4.62E-11	1.89E-08
SLCF008X-XOC-LF	3	6.60E-04 ( 20.0)	3.10E-09 ( 15.0)	2.37E-11	1.05E-08
RWCF004X-VOO-LF	3	5.00E-04 ( 21.0)	2.35E-09 ( 16.0)	3.41E-12	6.63E-09
ZWR168B-POC-LF	2	2.50E-02 ( 11.0)	4.08E-10 ( 17.5)	1.50E-13	1.32E-09
EE-MDC-DPS-B-RU	2	5.00E-01 ( 5.5)	4.08E-10 ( 17.5)		
OPFAIL-SLC1B-56M	13	2.10E-03 ( 15.5)	7.17E-11 ( 19.0)	1.20E-13	2.33E-10
SLCC001A-P-UUM	4	3.00E-03 ( 12.0)	3.23E-11 ( 20.0)	2.08E-14	6.11E-11
SLCC001A-PMS-CC	3	2.50E-03 ( 13.5)	2.47E-11 ( 21.0)	2.30E-14	8.44E-11
SLCB001X-BCO-LF	3	1.10E-03 ( 17.5)	1.09E-11 ( 22.0)	1.05E-14	4.61E-11
SLCC001A-PMS-LF	3	4.00E-04 ( 22.0)	3.95E-12 ( 23.0)	3.47E-15	1.24E-11

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## RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RPS	46	1.00E-05 ( 23.0)	5.52E-03 ( 1.0)	2.42E-04	2.89E-02
OPFAIL-SLCOX-56M	9	2.10E-03 ( 15.5)	5.42E-06 ( 2.0)	6.72E-08	2.12E-05
RWCF004X-V00-CC	4	2.50E-03 ( 13.5)	5.11E-06 ( 3.0)	6.42E-08	1.82E-05
RWCF004X-V00-LF	3	5.00E-04 ( 21.0)	4.69E-06 ( 4.0)	5.22E-08	1.71E-05
SLCF008X-X00-LF	3	6.60E-04 ( 20.0)	4.69E-06 ( 5.0)	5.22E-08	1.71E-05
SLCC001A-P-T0001	3	1.00E-03 ( 19.0)	4.69E-06 ( 6.0)	5.21E-08	1.71E-05
SLCC001A-R000105	3	1.10E-03 ( 17.5)	4.69E-06 ( 7.0)	5.22E-08	1.71E-05
SAK6ARCK-RCO-LFO	4	3.90E-02 ( 8.5)	1.92E-07 ( 9.5)	5.22E-10	6.99E-07
SAK2BRCK-RCO-LFO	4	3.90E-02 ( 8.5)	1.92E-07 ( 9.5)	5.21E-10	6.99E-07
SAK2ARCK-RCO-LFO	4	3.90E-02 ( 8.5)	1.92E-07 ( 9.5)	5.22E-10	6.99E-07
SAK6BRCK-RCO-LFO	4	3.90E-02 ( 8.5)	1.92E-07 ( 9.5)	5.22E-10	6.99E-07
OPFAILSMFW-BM	46	5.00E-01 ( 5.5)	5.52E-08 ( 12.0)	2.86E-10	3.06E-07
SUR-001-A-V	46	6.10E-01 ( 4.0)	3.53E-08 ( 13.0)	6.28E-11	2.30E-07
OPFAIL-SLC1B-56M	13	2.10E-03 ( 15.5)	3.41E-08 ( 14.0)	1.94E-10	1.22E-07
ZWR168B-POC-LF	2	2.50E-02 ( 11.0)	1.59E-08 ( 15.0)	5.15E-11	6.69E-08
SLCC001A-P-LUM	4	3.00E-03 ( 12.0)	1.07E-08 ( 16.0)	3.72E-11	4.44E-08
SLCC001A-PMS-LF	3	4.00E-04 ( 22.0)	9.86E-09 ( 17.0)	3.46E-11	4.12E-08
SLCB001X-BCO-LF	3	1.10E-03 ( 17.5)	9.85E-09 ( 18.0)	3.46E-11	4.11E-08
SLCC001A-PMS-CC	3	2.50E-03 ( 13.5)	9.84E-09 ( 19.0)	3.42E-11	4.11E-08
EE-MDC-DPS-B-RU	2	5.00E-01 ( 5.5)	4.08E-10 ( 20.0)		
RA-ATWS-12-3-10M	4	1.00E+00 ( 2.0)	0.00E+00 ( 22.0)		
RA-ATW-11-11-30M	3	1.00E+00 ( 2.0)	0.00E+00 ( 22.0)		
RA-NONE	18	1.00E+00 ( 2.0)	0.00E+00 ( 22.0)		

## UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
				OF LOG RISK	(RANK)		
RPS	46	1.00E-05	( 23.0)	51.1	( 1.0)	6.08	1.16
SUR-001-A-V	46	6.10E-01	( 4.0)	20.9	( 2.0)	1.88	1.27
SAK2BRGX-RCO-LFO	4	3.90E-02	( 8.5)	14.5	( 4.5)	1.23	0.84
SAK6ARCX-RCO-LFO	4	3.90E-02	( 8.5)	14.5	( 4.5)	1.23	0.84
SAK6BRGX-RCO-LFO	4	3.90E-02	( 8.5)	14.5	( 4.5)	1.23	0.84
SAK2ARCX-RCO-LFO	4	3.90E-02	( 8.5)	14.5	( 4.5)	1.23	0.84
OPFAILSHFW-8M	46	5.00E-01	( 5.5)	9.7	( 7.0)	1.33	1.04
RWCF004X-V00-CC	4	2.50E-03	( 13.5)	4.1	( 8.5)	1.11	1.03
SLCC001A-PMS-CC	3	2.50E-03	( 13.5)	4.1	( 8.5)	1.11	1.03
OPFAIL-SLCOX-56M	9	2.10E-03	( 15.5)	2.7	( 10.5)	1.09	1.06
OPFAIL-SLC1B-56M	13	2.10E-03	( 15.5)	2.7	( 10.5)	1.09	1.06
SLCC001A-R000105	3	1.10E-03	( 17.5)	2.3	( 12.0)	1.06	1.04
SLCC001A-P-T0001	3	1.00E-03	( 19.0)	1.9	( 13.0)	0.99	1.01
SLCB001X-BCO-LF	3	1.10E-03	( 17.5)	1.8	( 14.0)	1.00	1.00
SLCF008X-XOC-LF	3	6.60E-04	( 20.0)	0.8	( 15.0)	1.01	1.00
RWCF004X-V00-LF	3	5.00E-04	( 21.0)	0.0	( 17.5)		
SLCC001A-PMS-LF	3	4.00E-04	( 22.0)	0.0	( 17.5)		
SLCC001A-P-UUM	4	3.00E-03	( 12.0)	0.0	( 17.5)		
ZWR168B-POC-LF	2	2.50E-02	( 11.0)	0.0	( 17.5)		
RA-ATWS-12-3-10M	4	1.00E+00	( 2.0)				
RA-ATW-11-11-30M	3	1.00E+00	( 2.0)				
RA-NCNE	18	1.00E+00	( 2.0)				
EE-MDC-DPS-B-RU	2	5.00E-01	( 5.5)				



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CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT ATWS-49 WITH TOP EVENT FREQUENCY 5.52E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	6	4.65E-09	0.08428	IE-T3	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
3					RWCF004X-V00-CC	*	SUR-001-A-V	+				*
4	2	6	3.96E-09	0.15612	IE-T2	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
5					RWCF004X-V00-CC	*	SUR-001-A-V	+				*
6	3	5	3.91E-09	0.22691	IE-T3	*	OPFAIL-SLCOX-56M	*	OPFAILSMFW-BM	*	RPS	*
7					SUR-001-A-V	+						*
8	4	5	3.33E-09	0.28726	IE-T2	*	OPFAIL-SLCOX-56M	*	OPFAILSMFW-BM	*	RPS	*
9					SUR-001-A-V	+						*
10	5	6	3.13E-09	0.34391	IE-T4	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
11					RWCF004X-V00-CC	*	SUR-001-A-V	+				*
12	6	7	2.83E-09	0.39518	IE-T3	*	OPFAILSMFW-BM	*	RA-ATWS-12-3-10M	*	RPS	*
13					SAK6ARCX-RCO-LFO	*	SAK6BRCX-RCO-LFO	*	SUR-001-A-V	+		*
14	7	7	2.83E-09	0.44646	IE-T3	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
15					SAK2ARCX-RCO-LFO	*	SAK2BRCX-RCO-LFO	*	SUR-001-A-V	+		*
16	8	5	2.63E-09	0.49404	IE-T4	*	OPFAIL-SLCOX-56M	*	OPFAILSMFW-BM	*	RPS	*
17					SUR-001-A-V	+						*
18	10	7	2.41E-09	0.53775	IE-T2	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
19					SAK2ARCX-RCO-LFO	*	SAK2BRCX-RCO-LFO	*	SUR-001-A-V	+		*
20	9	7	2.41E-09	0.58146	IE-T2	*	OPFAILSMFW-BM	*	RA-ATWS-12-3-10M	*	RPS	*
21					SAK6ARCX-RCO-LFO	*	SAK6BRCX-RCO-LFO	*	SUR-001-A-V	+		*
22	11	6	2.05E-09	0.61854	IE-T3	*	OPFAILSMFW-BM	*	RA-ATW-11-11-30M	*	RPS	*
23					SLCC001A-R000105	*	SUR-001-A-V	+				*
24	13	7	1.90E-09	0.65301	IE-T4	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
25					SAK2ARCX-RCO-LFO	*	SAK2BRCX-RCO-LFO	*	SUR-001-A-V	+		*
26	12	7	1.90E-09	0.68747	IE-T4	*	OPFAILSMFW-BM	*	RA-ATWS-12-3-10M	*	RPS	*
27					SAK6ARCX-RCO-LFO	*	SAK6BRCX-RCO-LFO	*	SUR-001-A-V	+		*
28	14	6	1.86E-09	0.72118	IE-T3	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
29					SLCC001A-P-T0001	*	SUR-001-A-V	+				*
30	15	6	1.74E-09	0.75279	IE-T2	*	OPFAILSMFW-BM	*	RA-ATW-11-11-30M	*	RPS	*
31					SLCC001A-R000105	*	SUR-001-A-V	+				*
32	16	6	1.59E-09	0.78153	IE-T2	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
33					SLCC001A-P-T0001	*	SUR-001-A-V	+				*
34	17	6	1.38E-09	0.80645	IE-T4	*	OPFAILSMFW-BM	*	RA-ATW-11-11-30M	*	RPS	*
35					SLCC001A-R000105	*	SUR-001-A-V	+				*
36	18	6	1.25E-09	0.82911	IE-T4	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
37					SLCC001A-P-T0001	*	SUR-001-A-V	+				*
38	19	6	1.23E-09	0.85136	IE-T3	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
39					SLCF008X-XOC-LF	*	SUR-001-A-V	+				*
40	20	6	1.07E-09	0.87070	IE-T7	*	OPFAILSMFW-BM	*	RA-NONE	*	RPS	*
41					RWCF004X-V00-CC	*	SUR-001-A-V	+				*

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42	21	6	1.05E-09	0.80967	1E-12	OPFAILSMFW-BM	RA-NONE	RPS	*
43	22	6	9.30E-10	0.91653	SLCF008X-XOC-LF	OPFAILSMFW-BM	RA-NONE	RPS	*
44	23	5	8.97E-10	0.92277	1E-13	OPFAILSMFW-BM	RA-NONE	RPS	*
45	24	6	8.25E-10	0.93773	RWCF004X-V00-LF	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
46	25	6	7.93E-10	0.95210	1E-17	OPFAILSMFW-BM	RA-NONE	RPS	*
47	26	7	6.49E-10	0.97563	SUR-001-A-V	OPFAILSMFW-BM	RA-NONE	RPS	*
48	27	7	6.49E-10	0.97563	1E-14	OPFAILSMFW-BM	RA-NONE	RPS	*
49	28	6	6.25E-10	0.98696	SLCF008X-XOC-LF	SUR-001-A-V	RA-NONE	RPS	*
50	29	7	3.60E-10	0.99349	1E-12	OPFAILSMFW-BM	RA-NONE	RPS	*
51	30	5	1.92E-10	0.99697	RWCF004X-V00-LF	OPFAILSMFW-BM	RA-NONE	RPS	*
52	31	7	4.80E-11	0.99784	1E-17	OPFAILSMFW-BM	RA-NONE	RPS	*
53	32	5	2.82E-11	0.99835	SAK6ARCX-RCD-LFO	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
54	33	5	1.92E-11	0.99670	1E-17	OPFAILSMFW-BM	RA-NONE	RPS	*
55	34	6	1.17E-11	0.99891	SAK6ARCX-RCD-LFO	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
56	35	6	9.99E-12	0.99909	SAK2BRCX-RCD-LFO	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
57	36	6	9.77E-12	0.99927	1E-14	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
58	37	6	8.33E-12	0.99942	SAK2BRCX-RCD-LFO	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
59	38	6	7.88E-12	0.99956	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
60	39	6	6.57E-12	0.99968	1E-14	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
61	40	6	4.30E-12	0.99975	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
62	41	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
63	42	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
64	43	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
65	44	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
66	45	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
67	46	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
68	47	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
69	48	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
70	49	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
71	50	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
72	51	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
73	52	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
74	53	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
75	54	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
76	55	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
77	56	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
78	57	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
79	58	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
80	59	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
81	60	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
82	61	6	3.66E-12	0.99983	1E-17	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*
83	62	6	3.66E-12	0.99983	1E-12	OPFAIL-SLCOX-56M	OPFAILSMFW-BM	RPS	*

TEMAC RUN TIME IN CPU SECONDS 27.75

A-52

TOP EVENT ATWS-52      CONTAINS      11 EVENTS IN      5 CUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-52      IS      2.15E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-52

N	300
MEAN	2.22E-09
STD DEV	1.17E-08
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	9.51E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF



A-52

RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK			
				REDUCTION (RANK)	LOWER 5%	UPPER 5%	
RPS	5	1.00E-05	( 6.0)	2.15E-09	( 3.5)	0.00E+00	9.51E-09
OPFAIL-VENT-20M	5	1.00E+00	( 1.0)	2.15E-09	( 3.5)		
OPFAILSMFW-8M	5	5.00E-01	( 3.0)	2.15E-09	( 3.5)	0.00E+00	9.51E-09
OPFAIL-SLCOX-56M	5	2.10E-03	( 5.0)	2.15E-09	( 3.5)	0.00E+00	9.51E-09
SUR-002-A-L	5	1.60E-01	( 4.0)	2.15E-09	( 3.5)	0.00E+00	9.51E-09
CONT-LEAK	5	7.50E-01	( 2.0)	2.15E-09	( 3.5)	0.00E+00	9.51E-09

A.52  
 RISK INCREASE BY PASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)  
 -----

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE	(RANK)	LOWER 5% UPPER 5%
RPS	5	1.00E-05 ( 6.0)	2.15E-04 ( 1.0)	0.00E+00	1.50E-03
OPFAIL-SLCDX-50M	5	2.10E-03 ( 5.0)	1.02E-06 ( 2.0)	0.00E+00	3.86E-06
SUR-002-4-L	5	1.60E-01 ( 4.0)	1.13E-08 ( 3.0)	0.00E+00	4.74E-08
OPFAILSMFW-8M	5	5.00E-01 ( 3.0)	2.15E-09 ( 4.0)	0.00E+00	1.20E-08
CONT-LEAK	5	7.50E-01 ( 2.0)	7.18E-10 ( 5.0)	0.00E+00	0.00E+00
OPFAIL-VENT-20M	5	1.00E+00 ( 1.0)	0.00E+00 ( 6.0)		

A.52

UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
SUR-002-A-L	5	1.60E-01 ( 4.0)	57.2	( 1.0)	NA	1.18
RPS	5	1.00E-05 ( 6.0)	11.3	( 2.0)	NA	1.57
CONT-LEAK	5	7.50E-01 ( 2.0)	5.5	( 3.0)	NA	0.75
OPFAIL-SLCOX-56M	5	2.10E-03 ( 5.0)	1.8	( 4.0)	NA	1.30
OPFAILSMFW-8M	5	5.00E-01 ( 3.0)	0.7	( 5.0)	NA	1.17
OPFAIL-VENT-20M	5	1.00E+00 ( 1.0)				

4.52

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-52 WITH TOP EVENT FREQUENCY 2.15E-09

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	7.69E-10	0.35673	CONT-LEAK	* IE-T3	* OPFAIL-SLCOX-56M *	OPFAIL-VENT-20M *
3					OPFAILSMFW-8M	* RPS	* SUR-002-A-L *	
4	2	7	6.55E-10	0.66082	CONT-LEAK	* IE-T2	* OPFA L-SLCOX-56M *	OPFAIL-VENT-20M *
5					OPFAILSMFW-8M	* RPS	* SUR-002-A-L *	
6	3	7	5.17E-10	0.90058	CONT-LEAK	* IE-T4	* OPFAIL-SLCOX-56M *	OPFAIL-VENT-20M *
7					OPFAILSMFW-8M	* RPS	* SUR-002-A-L *	
8	4	7	1.76E-10	0.98246	CONT-LEAK	* IE-T7	* OPFAIL-SLCOX-56M *	OPFAIL-VENT-20M *
9					OPFAILSMFW-8M	* RPS	* SUR-002-A-L *	
10	5	7	3.78E-11	1.00000	CONT-LEAK	* IE-SLOCA	* OPFAIL-SLCOX-56M *	OPFAIL-VENT-20M *
11					OPFAILSMFW-8M	* RPS	* SUR-002-A-L *	

TEMAC RUN TIME IN CPU SECONDS 15.95

A-55

TOP EVENT ATWS-55      CONTAINS      9 EVENTS IN      3 CUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-55      S      5.66E-11

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-55

N	300
MEAN	8.05E-11
STD DEV	5.41E-10
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	2.81E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

A.55 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-001-R	3	1.40E-02 ( 4.0)	5.66E-11 ( 3.0)	0.00E+00	2.81E-10
OPFALL-VENT-20M	3	1.00E+00 ( 1.0)	5.66E-11 ( 3.0)		
OPFALLSMFM-8M	3	5.00E-01 ( 3.0)	5.66E-11 ( 3.0)	0.00E+00	2.81E-10
RPS	3	1.00E-05 ( 6.0)	5.66E-11 ( 3.0)	0.00E+00	2.81E-10
OPFALL-SLCOX-56M	3	2.10E-03 ( 5.0)	5.66E-11 ( 3.0)	0.00E+00	2.81E-10
CONT-LEAK	3	7.50E-01 ( 2.0)	-1.70E-10 ( 6.0)	0.00E+00	0.00E+00

A.55

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RPS	3	1.00E-05 ( 6.0)	5.66E-06 ( 1.0)	0.00E+00	7.12E-05
OPFAIL-SLCOX-56M	3	2.10E-03 ( 5.0)	2.69E-08 ( 2.0)	0.00E+00	2.50E-07
SUR-001-R	3	1.40E-02 ( 4.0)	3.99E-09 ( 3.0)	0.00E+00	6.76E-09
OPFAILSMFW-8M	3	5.00E-01 ( 3.0)	5.66E-11 ( 4.0)	0.00E+00	4.39E-10
OPFAIL-VENT-20M	3	1.00E+00 ( 1.0)	0.00E+00 ( 5.0)		
CONT-LEAK	3	7.50E-01 ( 2.0)	-5.66E-11 ( 6.0)	-2.81E-10	0.00E+00

A.55  
 -----  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
 -----

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y <sub>.05/TE.05</sub> *	Y <sub>.95/TE.95</sub> *
RPS	3	1.00E-05	( 6.0)	6.3	( 1.0)	NA	2.53
OPFAIL-SUCOR-5M	3	2.50E-03	( 5.0)	4.2	( 2.0)	NA	1.87
CONT-LEAK	3	7.50E-01	( 2.0)	2.4	( 3.0)	NA	0.25
OPFAILSPW-9M	3	5.00E-01	( 3.0)	2.0	( 4.0)	NA	1.26
SUR-001-S	3	1.40E-02	( 4.0)	0.7	( 5.0)	NA	0.36
OPFAIL-VENT-20M	3	1.00E+00	( 1.0)				



A.55

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-55 WITH TOP EVENT FREQUENCY 5.66E-11

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	2.24E-11	0.39610	/CONT-LEAK	* IE-T3	* OPFAIL-SLCOX-56M	* OPFAIL-VENT-20M
3					OPFAILSMFW-8M	* RPS	* SUR-001-R	*
4	2	7	1.91E-11	0.73377	/CONT-LEAK	* IE-T2	* OPFAIL-SLCOX-56M	* OPFAIL-VENT-20M
5					OPFAILSMFW-8M	* RPS	* SUR-001-R	*
6	3	7	1.51E-11	1.00000	/CONT-LEAK	* IE-T4	* OPFAIL-SLCOX-56M	* OPFAIL-VENT-20M
7					OPFAILSMFW-8M	* RPS	* SUR-001-R	*

TEMAC RUN TIME IN CPU SECONDS 15.64

A\_58

TOP EVENT ATWS-58      CONTAINS 13 EVENTS IN 10 CUT SETS  
THE FREQUENCY OF TOP EVENT ATWS-58      IS 6.88E-11

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-58

N	300
MEAN	6.21E-11
STD DEV	2.97E-10
LOWER 5%	1.97E-13
LOWER 25%	1.39E-12
MEDIAN	7.81E-12
UPPER 25%	3.44E-11
UPPER 5%	2.32E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD \* EV(J)  
= TEF \* TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD \* RISK REDUCTION  
= PD \* (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

A 5B  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-002-A-V	10	6.30E-01 ( 2.0)	6.88E-11 ( 2.5)	1.97E-13	2.32E-10
RPS	10	1.00E-05 ( 9.0)	6.88E-11 ( 2.5)	1.97E-13	2.32E-10
OPFATL-SLCOX-33M	10	2.10E-03 ( 8.0)	6.88E-11 ( 2.5)	1.97E-13	2.32E-10
OPFATL-SMFW-BM	10	5.00E-01 ( 3.0)	6.88E-11 ( 2.5)	1.97E-13	2.32E-10
RA-NONE	3	1.00E+00 ( 1.0)	6.11E-11 ( 5.5)		
HF04CSC-QDC-LF	3	6.00E-03 ( 7.0)	6.11E-11 ( 5.5)	1.68E-13	1.78E-10
RA-ATWS-1-3-33M	7	1.80E-02 ( 6.0)	7.67E-12 ( 7.0)	9.16E-16	1.37E-11
HACTK3-R00-LFO	4	2.00E-02 ( 4.5)	4.00E-12 ( 8.0)	4.69E-16	7.00E-12
HACTK9-R00-LFO	3	2.00E-02 ( 4.5)	3.67E-12 ( 9.0)	4.47E-16	6.63E-12

A-58

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RPS	10	1.00E-05 ( 9.0)	6.88E-06 ( 1.0)	1.17E-07	3.45E-05
OP-FAIL-SLCOX-33M	10	2.10E-03 ( 8.0)	3.27E-08 ( 2.0)	2.50E-10	1.57E-07
HF04CSC-00C-LF	3	6.00E-03 ( 7.0)	1.01E-08 ( 3.0)	3.14E-11	3.70E-08
RA-ATWS-1-3-33M	7	1.80E-02 ( 6.0)	4.18E-10 ( 4.0)	2.97E-13	1.25E-09
HACTK3-R00-LFO	4	2.00E-02 ( 4.5)	1.96E-10 ( 5.0)	1.90E-13	5.59E-10
HACTK9-R00-LFO	3	2.00E-02 ( 4.5)	1.80E-10 ( 6.0)	1.45E-13	5.12E-10
OP-FAIL-SMTW-5M	10	5.00E-01 ( 3.0)	6.88E-11 ( 7.0)	1.06E-13	2.08E-10
SUR-002-A-V	10	6.30E-01 ( 2.0)	4.04E-11 ( 8.0)	1.15E-14	1.43E-10
RA-NONE	3	1.00E+00 ( 1.0)	0.00E+00 ( 9.0)		

A.58  
UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
RPS	10	1.00E-05 ( 9.0)	34.7 ( 1.0)	5.96	1.49
OPFAIL-SLCOX-33M	10	2.10E-03 ( 8.0)	29.5 ( 2.0)	2.68	1.42
SUR-002-A-V	10	6.50E-01 ( 2.0)	14.4 ( 3.0)	1.53	1.18
OPFAILSMFW-0M	10	5.00E-01 ( 3.0)	10.2 ( 4.0)	1.22	0.93
HF04CSC-00C-LF	3	6.00E-03 ( 7.0)	7.3 ( 5.0)	1.04	1.12
HACTK3-ROO-LFO	4	2.00E-02 ( 4.5)	4.6 ( 6.5)	0.97	0.86
HACTK9-ROO-LFO	3	2.00E-02 ( 4.5)	4.6 ( 6.5)	0.97	0.86
RA-ATWS-1-3-33M	7	1.80E-02 ( 6.0)	0.9 ( 8.0)	0.92	1.15
RA-NONE	3	1.00E+00 ( 1.0)			

A\_58

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-58 WITH TOP EVENT FREQUENCY 6.88E-11

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	7	2.42E-11	0.35195	HF04CSC-00C-LF	* IE-13	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
3					RA-NONE	* RPS	* SUR-002-A-V		*
4	2	7	2.06E-11	0.65197	HF04CSC-00C-LF	* IE-12	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
5					RA-NONE	* RPS	* SUR-002-A-V		*
6	3	7	1.63E-11	0.88853	HF04CSC-00C-LF	* IE-14	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
7					RA-NONE	* RPS	* SUR-002-A-V		*
8	5	7	1.45E-12	0.90965	HACTK9-ROO-LFO	* IE-13	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
9					RA-ATWS-1-3-33M	* RPS	* SUR-002-A-V		*
10	4	7	1.45E-12	0.93076	HACTK3-ROO-LFO	* IE-13	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
11					RA-ATWS-1-3-33M	* RPS	* SUR-002-A-V		*
12	7	7	1.24E-12	0.94877	HACTK9-ROO-LFO	* IE-12	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
13					RA-ATWS-1-3-33M	* RPS	* SUR-002-A-V		*
14	6	7	1.24E-12	0.96677	HACTK3-ROO-LFO	* IE-12	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
15					RA-ATWS-1-3-33M	* RPS	* SUR-002-A-V		*
16	9	7	9.76E-13	0.98096	HACTK9-ROO-LFO	* IE-14	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
17					RA-ATWS-1-3-33M	* RPS	* SUR-002-A-V		*
18	8	7	9.76E-13	0.99515	HACTK3-ROO-LFO	* IE-14	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
19					RA-ATWS-1-3-33M	* RPS	* SUR-002-A-V		*
20	10	7	3.33E-13	1.00000	HACTK3-ROO-LFO	* IE-17	* OPFAIL-SLCOX-33M	* OPFAILSMFW-8M	*
21					RA-ATWS-1-3-33M	* RPS	* SUR-002-A-V		*

TEMAC RUN TIME IN CPU SECONDS 22.97

A\_93

TOP EVENT ATWS-93 CONTAINS 29 EVENTS IN 74 CUT SETS

THE FREQUENCY OF TOP EVENT ATWS-93 IS 8.42E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT ATWS-93

N	300
MEAN	1.73E-09
STD DEV	1.04E-08
LOWER 5%	7.33E-13
LOWER 25%	1.19E-11
MEDIAN	7.95E-11
UPPER 25%	5.62E-10
UPPER 5%	4.59E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MFAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

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## RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RPS	74	1.00E-05 ( 23.0)	8.42E-10 ( 1.5)	7.33E-13	4.59E-09
SUR-001-A-V	74	6.10E-01 ( 7.0)	8.42E-10 ( 1.5)	7.33E-13	4.59E-09
OP-F-INITCSS-5H	4	1.00E-01 ( 8.0)	7.84E-10 ( 3.5)	6.74E-13	4.38E-09
OP-F-INITSPC-5H	4	2.10E-03 ( 20.5)	7.84E-10 ( 3.5)	6.74E-13	4.38E-09
RA-ATWS-1-1-5H	64	2.10E-03 ( 20.5)	5.22E-11 ( 5.0)	5.07E-15	2.54E-10
LAK96RCB-ROO-LFO	21	2.00E-02 ( 13.0)	1.70E-11 ( 6.5)	1.36E-15	8.37E-11
LAK18BRB-ROO-LFO	21	2.00E-02 ( 13.0)	1.70E-11 ( 6.5)	1.36E-15	8.37E-11
MFS-RESET-5H	34	2.10E-03 ( 20.5)	1.44E-11 ( 8.0)	1.48E-15	2.92E-10
FLOW-RHR-B3	17	1.00E+00 ( 3.5)	1.38E-11 ( 10.5)		
LAK18ARA-ROO-LFO	17	2.00E-02 ( 13.0)	1.38E-11 ( 10.5)	1.29E-15	6.75E-11
LAK9ARCA-ROO-LFO	17	2.00E-02 ( 13.0)	1.38E-11 ( 10.5)	1.29E-15	6.75E-11
LAK93BRC-ROO-LFO	17	2.00E-02 ( 13.0)	1.38E-11 ( 10.5)	1.29E-15	6.75E-11
FLOW-RHR-A3	13	1.00E+00 ( 3.5)	1.07E-11 ( 13.5)		
LAK93ARC-ROO-LFO	13	2.00E-02 ( 13.0)	1.07E-11 ( 13.5)	1.20E-15	5.14E-11
LAK10RCA-ROO-LFO	12	2.00E-02 ( 13.0)	9.41E-12 ( 15.0)	2.74E-16	4.87E-11
LAK14BRC-RCD-LFO	8	2.00E-02 ( 13.0)	6.27E-12 ( 18.5)	1.82E-16	3.25E-11
LAK14ARC-RCD-LFO	8	2.00E-02 ( 13.0)	6.27E-12 ( 18.5)	1.82E-16	3.25E-11
NOFLOW-SPC-ASX	8	1.00E+00 ( 3.5)	6.27E-12 ( 18.5)		
NOFLOW-CSS-B7A	8	1.00E+00 ( 3.5)	6.27E-12 ( 18.5)		
NOFLOW-CSS-A7A	8	1.00E+00 ( 3.5)	6.27E-12 ( 18.5)		
NOFLOW-SPC-B5X	8	1.00E+00 ( 3.5)	6.27E-12 ( 18.5)		
RA-ATWS-2-1-5H	6	2.10E-03 ( 20.5)	5.70E-12 ( 22.0)	1.78E-15	2.57E-11
TDRFP-T-0E-5H	17	2.60E-03 ( 18.0)	2.16E-12 ( 23.0)	6.98E-16	1.13E-11



## RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RPS	74	1.00E-05 ( 23.0)	8.42E-05 ( 1.0)	4.91E-07	8.06E-04
OP-F-INITSPC-5H	4	2.10E-03 ( 20.5)	3.73E-07 ( 2.0)	2.69E-09	1.42E-06
RA-ATWS-1-1-5H	64	2.10E-03 ( 20.5)	2.48E-08 ( 3.0)	1.06E-11	2.45E-07
OP-F-INITCSS-5H	4	1.00E-01 ( 8.0)	7.06E-09 ( 4.0)	3.17E-11	2.23E-08
MFS-RESET-5H	34	2.10E-03 ( 20.5)	6.83E-09 ( 5.0)	1.08E-11	5.88E-08
RA-ATWS-2-1-5H	6	2.10E-03 ( 20.5)	2.71E-09 ( 6.0)	3.05E-12	1.96E-08
LAK18BRB-ROO-LFO	21	2.00E-02 ( 13.0)	8.31E-10 ( 7.5)	1.20E-12	2.54E-09
LAK98RCB-ROO-LFO	21	2.00E-02 ( 13.0)	8.31E-10 ( 7.5)	1.20E-12	2.54E-09
TDRFP-T-OE-5H	17	2.60E-03 ( 18.0)	8.29E-10 ( 9.0)	8.25E-13	6.93E-09
LAK18ARA-ROO-LFO	17	2.00E-02 ( 13.0)	6.78E-10 ( 11.0)	1.07E-12	2.05E-09
LAK9ARCA-ROO-LFO	17	2.00E-02 ( 13.0)	6.78E-10 ( 11.0)	1.07E-12	2.05E-09
LAK93BRC-ROO-LFO	17	2.00E-02 ( 13.0)	6.78E-10 ( 11.0)	1.07E-12	2.05E-09
SUR-001-A-V	74	6.10E-01 ( 7.0)	5.38E-10 ( 13.0)	1.25E-13	4.41E-09
LAK93ARC-ROO-LFO	13	2.00E-02 ( 13.0)	5.24E-10 ( 14.0)	8.82E-13	1.56E-09
LAK10RCA-ROO-LFO	12	2.00E-02 ( 13.0)	4.61E-10 ( 15.0)	2.26E-13	1.47E-09
LAK14BRC-ROO-LFO	8	2.00E-02 ( 13.0)	3.07E-10 ( 16.5)	1.51E-13	9.77E-10
LAK14ARC-ROO-LFO	8	2.00E-02 ( 13.0)	3.07E-10 ( 16.5)	1.51E-13	9.77E-10
NOFLOW-SPC-A5X	8	1.00E+00 ( 3.5)	0.00E+00 ( 20.5)		
NOFLOW-CSS-B7A	8	1.00E+00 ( 3.5)	0.00E+00 ( 20.5)		
NOFLOW-CSS-A7A	8	1.00E+00 ( 3.5)	0.00E+00 ( 20.5)		
NOFLOW-SPC-B5X	8	1.00E+00 ( 3.5)	0.00E+00 ( 20.5)		
FLOW-RHR-C3	17	1.00E+00 ( 3.5)	0.00E+00 ( 20.5)		
FLOW-RHR-A3	13	1.00E+00 ( 3.5)	0.00E+00 ( 20.5)		

## UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCT. IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
RA-ATWS-2-1-5H	6	2.10E-03 ( 20.5)	54.1	( 2.5)	8.92	0.77
OP-F-INITSPC-5H	4	2.10E-03 ( 20.5)	54.1	( 2.5)	8.92	0.77
RA-ATWS-1-1-5H	64	2.10E-03 ( 20.5)	54.1	( 2.5)	8.92	0.77
MFS-RESET-5H	34	2.10E-03 ( 20.5)	54.1	( 2.5)	8.92	0.77
OP-F-INITCSS-5H	4	1.00E-01 ( 8.0)	53.8	( 5.0)	4.40	0.79
RPS	74	1.00E-05 ( 23.0)	27.5	( 6.0)	6.70	1.75
SUR-001-A-V	74	6.10E-01 ( 7.0)	10.6	( 7.0)	1.80	1.24
LAK18BRB-R00-LFO	21	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK1BARA-R00-LFO	17	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK10RCA-R00-LFO	12	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK14BRC-R00-LFO	8	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK9ARCA-R00-LFO	17	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK93BRC-R00-LFO	17	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK93ARC-R00-LFO	13	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK14ARC-R00-LFO	8	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
LAK98RCB-R00-LFO	21	2.00E-02 ( 13.0)	2.9	( 12.0)	1.47	1.00
TDRFP-T-0E-5H	17	2.60E-03 ( 18.0)	0.0	( 17.0)		
NOFLOW-SPC-A5X	8	1.00E+00 ( 3.5)				
NOFLOW-CSS-B7A	8	1.00E+00 ( 3.5)				
NOFLOW-CSS-A7A	8	1.00E+00 ( 3.5)				
NOFLOW-SPC-B5X	8	1.00E+00 ( 3.5)				
FLOW-RHR-B3	17	1.00E+00 ( 3.5)				
FLOW-RHR-A3	13	1.00E+00 ( 3.5)				

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CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT ATWS-93 WITH TOP EVENT FREQUENCY 8.42E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	5	7.69E-10	0.91282	IE-T5	* OP-F-INITCSS-5H	* OP-F-INITSPC-5H	* RPS	*
3					SUR-001-A-V	*			
4	2	6	1.21E-11	0.92720	IE-T1	* MFS-RESET-5H	* OP-F-INITCSS-5H	* OP-F-INITSPC-5H	*
5					RPS	* SUR-001-A-V	*		
6	9	8	3.07E-12	0.93085	IE-T5	* LAK14ARC-ROO-LFO	* LAK9BRCB-ROO-LFO	* NOFLOW-CSS-A7A	*
7					NOFLOW-SPC-ASX	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
8	7	8	3.07E-12	0.93450	IE-T5	* LAK14ARC-ROO-LFO	* LAK18BARA-ROO-LFO	* NOFLOW-CSS-A7A	*
9					NOFLOW-SPC-ASX	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
10	16	7	3.07E-12	0.93815	FLOW-RHR-B3	* IE-T5	* LAK18ARA-ROO-LFO	* LAK93BRC-ROO-LFO	*
11					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*	
12	14	6	3.07E-12	0.94180	IE-T5	* LAK10RCA-ROO-LFO	* LAK18BRB-ROO-LFO	* RA-ATWS-1-1-5H	*
13					RPS	* SUR-001-A-V	*		
14	4	6	3.07E-12	0.94545	IE-T5	* LAK18ARA-ROO-LFO	* LAK18BRB-ROO-LFO	* RA-ATWS-1-1-5H	*
15					RPS	* SUR-001-A-V	*		
16	15	7	3.07E-12	0.94911	FLOW-RHR-A3	* IE-T5	* LAK18BRB-ROO-LFO	* LAK93ARC-ROO-LFO	*
17					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*	
18	5	8	3.07E-12	0.95276	IE-T5	* LAK14BRC-ROO-LFO	* LAK18ARA-ROO-LFO	* NOFLOW-CSS-B7A	*
19					NOFLOW-SPC-B5X	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
20	13	8	3.07E-12	0.95641	FLOW-RHR-A3	* FLOW-RHR-B3	* IE-T5	* LAK93ARC-ROO-LFO	*
21					LAK93BRC-ROO-LFO	* RA-ATWS-2-1-5H	* RPS	* SUR-001-A-V	*
22	6	8	3.07E-12	0.96006	IE-T5	* LAK14BRC-ROO-LFO	* LAK9ARCA-ROO-LFO	* NOFLOW-CSS-B7A	*
23					NOFLOW-SPC-B5X	* RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*
24	12	7	3.07E-12	0.96371	FLOW-RHR-B3	* IE-T5	* LAK93BRC-ROO-LFO	* LAK9ARCA-ROO-LFO	*
25					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*	
26	11	6	3.07E-12	0.96736	IE-T5	* LAK18BRB-ROO-LFO	* LAK9ARCA-ROO-LFO	* RA-ATWS-1-1-5H	*
27					RPS	* SUR-001-A-V	*		
28	3	7	3.07E-12	0.97101	FLOW-RHR-B3	* IE-T5	* LAK10RCA-ROO-LFO	* LAK93BRC-ROO-LFO	*
29					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*	
30	8	6	3.07E-12	0.97466	IE-T5	* LAK18ARA-ROO-LFO	* LAK9BRCB-ROO-LFO	* RA-ATWS-1-1-5H	*
31					RPS	* SUR-001-A-V	*		
32	18	7	3.07E-12	0.97832	FLOW-RHR-A3	* IE-T5	* LAK93ARC-ROO-LFO	* LAK9BRCB-ROO-LFO	*
33					RA-ATWS-1-1-5H	* RPS	* SUR-001-A-V	*	
34	10	6	3.07E-12	0.98197	IE-T5	* LAK10RCA-ROO-LFO	* LAK9BRCB-ROO-LFO	* RA-ATWS-1-1-5H	*
35					RPS	* SUR-001-A-V	*		
36	17	6	3.07E-12	0.98562	IE-T5	* LAK9ARCA-ROO-LFO	* LAK9BRCB-ROO-LFO	* RA-ATWS-1-1-5H	*
37					RPS	* SUR-001-A-V	*		
38	19	6	2.03E-12	0.98803	IE-T3	* OP-F-INITCSS-5H	* OP-F-INITSPC-5H	* RPS	*
39					SUR-001-A-V	* TDRFP-T-0E-5H	*		
40	20	6	1.40E-12	0.98969	IE-T2	* MFS-RESET-5H	* OP-F-INITCSS-5H	* OP-F-INITSPC-5H	*
41					RPS	* SUR-001-A-V	*		

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42	25	6	1.28E-12	0.99121	FLOW-RHR-A3	IE-T08	LAK93ARC-R00-LFO	RA-ATWS-2-1-5H	*
43					RPS	SUR-001-A-V			*
44	24	6	1.28E-12	0.99273	FLOW-RHR-B3	IE-T9A	LAK93BRC-R00-LFO	RA-ATWS-2-1-5H	*
45					RPS	SUR-001-A-V			*
46	26	5	1.28E-12	0.99426	IE-T9B	LAK9ARCA-R00-LFO	RA-ATWS-1-1-5H	RPS	*
47					SUR-001-A-V				*
48	23	5	1.28E-12	0.99578	IE-T9A	LAK189RB-R00-LFO	RA-ATWS-1-1-5H	RPS	*
49					SUR-001-A-V				*
50	22	5	1.28E-12	0.99730	IE-T9A	LAK96RCB-R00-LFO	RA-ATWS-1-1-5H	RPS	*
51					SUR-001-A-V				*
52	21	5	1.28E-12	0.99882	IE-T9B	LAK18ARA-R00-LFO	RA-ATWS-1-1-5H	RPS	*
53					SUR-001-A-V				*
54	31	7	4.84E-14	0.99888	IE-T1	LAK9ARCA-R00-LFO	LAK96RCB-R00-LFO	MFS-RESET-5H	*
55					RA-ATWS-1-1-5H	RPS	SUR-001-A-V		*
56	30	9	4.84E-14	0.99894	IE-T1	LAK148RC-R00-LFO	LAK9ARCA-R00-LFO	MFS-RESET-5H	*
57					NOFLOW-CSS-B7A	NOFLOW-SPC-B5X	RA-ATWS-1-1-5H	RPS	*
58					SUR-001-A-V				*
59	28	7	4.8E-14	0.99899	IE-T1	LAK10ARA-R00-LFO	LAK96RCB-R00-LFO	MFS-RESET-5H	*
60					RA-ATWS-1-1-5H	RPS	SUR-001-A-V		*
61	29	9	4.84E-14	0.99905	FLOW-RHR-A3	FLOW-RHR-B3	IE-T1	LAK93ARC-R00-LFO	*
62					LAK93BRC-R00-LFO	MFS-RESET-5H	RA-ATWS-2-1-5H	RPS	*
63					SUR-001-A-V				*
64	42	8	4.84E-14	0.99911	FLOW-RHR-A3	IE-T1	LAK93ARC-R00-LFO	LAK96RCB-R00-LFO	*
65					MFS-RESET-5H	RA-ATWS-1-1-5H	RPS	SUR-001-A-V	*
66	41	7	4.84E-14	0.99917	IE-T1	LAK10ARA-R00-LFO	LAK189RB-R00-LFO	MFS-RESET-5H	*
67					RA-ATWS-1-1-5H	RPS	SUR-001-A-V		*
68	40	8	4.84E-14	0.99922	FLOW-RHR-A3	IE-T1	LAK189RB-R00-LFO	LAK93ARC-R00-LFO	*
69					MFS-RESET-5H	RA-ATWS-1-1-5H	RPS	SUR-001-A-V	*
70	38	0	4.26E-14	0.99924	FLOW-RHR-B3	IE-T1	LAK10RCA-R00-LFO	LAK93BRC-R00-LFO	*
71					MFS-RESET-5H	RA-ATWS-1-1-5H	RPS	SUR-001-A-V	*
72	36	9	4.84E-14	0.99934	IE-T1	LAK148RC-R00-LFO	LAK189RB-R00-LFO	MFS-RESET-5H	*
73					NOFLOW-CSS-A7A	NOFLOW-SPC-B5X	RA-ATWS-1-1-5H	RPS	*
74					SUR-001-A-V				*
75	35	7	4.84E-14	0.99940	IE-T1	LAK10RCA-R00-LFO	LAK96RCB-R00-LFO	MFS-RESET-5H	*
76					RA-ATWS-1-1-5H	RPS	SUR-001-A-V		*
77	34	9	4.84E-14	0.99945	IE-T1	LAK148RC-R00-LFO	LAK18ARA-R00-LFO	MFS-RESET-5H	*
78					NOFLOW-CSS-B7A	NOFLOW-SPC-B5X	RA-ATWS-1-1-5H	RPS	*
79					SUR-001-A-V				*
80	39	7	4.84E-14	0.99951	IE-T1	LAK10RCA-R00-LFO	LAK189RB-R00-LFO	MFS-RESET-5H	*
81					RA-ATWS-1-1-5H	RPS	SUR-001-A-V		*
82	37	8	4.84E-14	0.99957	FLOW-RHR-B3	IE-T1	LAK93BRC-R00-LFO	LAK9ARCA-R00-LFO	*
83					MFS-RESET-5H	RA-ATWS-1-1-5H	RPS	SUR-001-A-V	*

TEMAC RUN TIME IN CPU SECONDS 33.92

SEQUENCE L12

TOP EVENT PDSC-L-SEQ2C CONTAINS 39 EVENTS IN 28 CUT SETS

THE FREQUENCY OF TOP EVENT PDSC-L-SEQ2C IS  $1.82E-10$

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT PDSC-L-SEQ2C

N	300
MEAN	$1.60E-10$
STD DEV	$5.93E-10$
LOWER 5%	$6.82E-13$
LOWER 25%	$5.07E-12$
MEDIAN	$2.11E-11$
UPPER 25%	$8.37E-11$
UPPER 5%	$6.74E-10$

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

$$\begin{aligned} \text{RISK REDUCTION} &= PD \times EV(J) \\ &= TEF - TEF(\text{EVALUATED WITH } EV(J) = 0) \end{aligned}$$

2. FOR BASE EVENTS ONLY:

$$\begin{aligned} \text{RISK INCREASE} &= PD - \text{RISK REDUCTION} \\ &= PD \times (1 - EV(J)) \\ &= TEF(\text{EVALUATED WITH } EV(J) = 1) - TEF \end{aligned}$$

SEQUENCE 1.12

RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-005-V	27	2.10E-03 ( 16.5)	1.81E-10 ( 1.0)	6.77E-13	6.74E-10
1EB301B-800-LF	21	7.20E-05 ( 36.5)	1.51E-10 ( 2.0)	2.99E-13	5.09E-10
RHR01A-RTX-LFB	1	6.20E-03 ( 5.0)	2.81E-11 ( 3.0)	2.81E-14	7.96E-11
CSD301A-PLG-LF	5	1.20E-03 ( 19.5)	2.05E-11 ( 4.0)	4.57E-14	5.78E-11
LCSC002A-P-UJM	1	3.00E-03 ( 7.5)	1.36E-11 ( 7.0)	8.98E-15	4.28E-11
CDB001P-P-UJM	1	3.00E-03 ( 7.5)	1.36E-11 ( 7.0)	7.76E-15	4.39E-11
RHR02AA-P-KDUM	1	3.00E-03 ( 7.5)	1.36E-11 ( 7.0)	7.76E-15	4.39E-11
SCF06AA-SEMER	1	1.00E+00 ( 2.0)	1.36E-11 ( 7.0)		
RHR02AA-P-UJM	1	3.00E-03 ( 7.5)	1.36E-11 ( 7.0)	8.98E-15	4.28E-11
RHR01AA-800-CC	1	2.50E-03 ( 12.5)	1.13E-11 ( 11.0)	6.79E-15	3.50E-11
NWY01CA-FMS-CC	1	2.50E-03 ( 12.5)	1.13E-11 ( 11.0)	6.79E-15	3.50E-11
CDD001P-FMS-CC	1	2.50E-03 ( 12.5)	1.13E-11 ( 11.0)	6.79E-15	3.50E-11
1EB301B-B-UJM	2	1.00E-04 ( 32.5)	1.12E-11 ( 13.5)	2.10E-14	3.91E-11
1EB301B-V-UJM	2	1.00E-04 ( 32.5)	1.12E-11 ( 13.5)	2.10E-14	3.91E-11
CDD001F-PLG-LF	3	5.80E-04 ( 24.5)	9.92E-12 ( 15.0)	2.19E-14	2.74E-11
1EB235AA-800-LF	2	7.20E-05 ( 36.5)	8.06E-12 ( 16.0)	5.57E-15	2.37E-11
CSD300B-PLG-LF	1	1.20E-03 ( 19.5)	5.43E-12 ( 17.0)	3.72E-15	1.60E-11
RHR02AA-FMS-LF	1	1.10E-03 ( 21.5)	4.98E-12 ( 18.5)	5.30E-15	1.43E-11
CDD001P-FMS-LF	1	1.10E-03 ( 21.5)	4.98E-12 ( 18.5)	5.30E-15	1.43E-11
NWY01AX-ADX-LF1	1	8.40E-04 ( 23.0)	3.88E-12 ( 20.0)	2.33E-15	1.03E-11
CDD001F-PLG-LF	1	5.80E-04 ( 24.5)	2.63E-12 ( 21.0)	1.87E-15	6.51E-12
NWY01CA-FMS-LF	1	5.40E-04 ( 26.4)	2.44E-12 ( 22.0)	5.78E-15	6.02E-12
RHR01AA-800-LF	1	5.00E-04 ( 28.5)	2.26E-12 ( 25.0)	1.43E-15	6.24E-12
CSCF06AA-VCC-LF	1	5.00E-04 ( 28.5)	2.26E-12 ( 25.0)	1.84E-15	6.48E-12
NWY01CA-F-UJM	1	5.00E-04 ( 28.5)	2.26E-12 ( 25.0)	6.08E-15	6.43E-12
RHR04AA-VDD-LF	1	5.00E-04 ( 28.5)	2.26E-12 ( 25.0)	1.84E-15	6.48E-12
FLOW-RHR-A3	1	1.00E+00 ( 2.0)	2.26E-12 ( 25.0)		
RHR301AA-STA	1	1.10E-04 ( 31.0)	4.98E-13 ( 28.5)	4.00E-16	1.31E-12
KOFL0M-RHR-A1	1	1.00E+00 ( 2.0)	4.98E-13 ( 28.5)		
LPCL-FMS-DN	1	2.50E-03 ( 12.5)	4.50E-13 ( 31.5)	1.70E-16	9.28E-13
SUR-008-V	1	2.10E-03 ( 16.5)	4.50E-13 ( 31.5)	1.70E-16	9.28E-13
LPCL-BETA	1	1.10E-01 ( 4.0)	4.50E-13 ( 31.5)	1.70E-16	9.28E-13
TORFF-1-0E-15H	1	2.60E-03 ( 10.0)	4.50E-13 ( 31.5)	1.70E-16	9.28E-13
CCB001P-800-LF	1	8.40E-05 ( 34.5)	3.89E-13 ( 34.5)	6.57E-17	2.60E-12
1EB16211-800	1	8.40E-05 ( 34.5)	3.89E-13 ( 34.5)	6.57E-17	2.60E-12
OPFAIL-VENT-4H	3	2.10E-03 ( 16.5)	-1.79E-14 ( 36.0)	-4.70E-14	-7.92E-18
RA-SV-1-2R	25	2.10E-03 ( 16.5)	-3.65E-13 ( 37.0)	-1.28E-12	-4.80E-16

SEQUENCE 1.12  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		
				INCREASE	(RANK)	LOWER 5% UPPER 5%
1E836Y8-BCO-LF	21	7.20E-05	(36.5)	2.10E-06	(1.0)	3.31E-08 9.48E-06
1E8235KA-BCO-LF	2	7.20E-05	(36.5)	1.12E-07	(2.0)	4.61E-10 4.87E-07
1E36Y8-V-UUM	2	1.00E-04	(32.5)	1.12E-07	(3.5)	4.61E-10 4.87E-07
1E836Y8-B-UUM	2	1.00E-04	(32.5)	1.12E-07	(3.5)	4.61E-10 4.87E-07
SUR-005-V	27	2.10E-03	(16.5)	8.62E-08	(5.0)	2.27E-09 3.97E-07
COO001F-PLG-LF	3	5.80E-04	(24.5)	1.71E-08	(6.0)	2.06E-10 6.10E-08
CSC0300A-PLG-LF	3	1.20E-03	(19.5)	1.71E-08	(7.0)	2.06E-10 6.10E-08
CC60001P-BCO-LF	1	8.40E-05	(34.5)	4.53E-09	(8.5)	1.42E-11 1.43E-08
1E816211-BCO	1	8.40E-05	(34.5)	4.53E-09	(8.5)	1.42E-11 1.43E-08
RHR307AX-STR	1	1.10E-04	(31.0)	4.53E-09	(10.0)	1.42E-11 1.43E-08
RHR801AA-800-LF	1	5.00E-04	(28.5)	4.52E-09	(12.5)	1.42E-11 1.43E-08
NAVY01CA-F-UUM	1	5.00E-04	(28.5)	4.52E-09	(12.5)	1.42E-11 1.43E-08
CSCF068A-VCC-LF	1	5.00E-04	(28.5)	4.52E-09	(12.5)	1.41E-11 1.43E-08
RHRF48AA-V00-LF	1	5.00E-04	(28.5)	4.52E-09	(12.5)	1.41E-11 1.43E-08
NAVY01CA-FMS-LF	1	5.80E-04	(26.0)	4.52E-09	(15.6)	1.42E-11 1.43E-08
COO001F-PLG-LF	1	8.40E-04	(23.0)	4.52E-09	(17.0)	1.42E-11 1.43E-08
NAVY01AX-ACK-LF1	1	1.10E-03	(21.5)	4.52E-09	(16.5)	1.42E-11 1.43E-08
RHR020AA-FMS-LF	1	1.10E-03	(21.5)	4.52E-09	(18.5)	1.42E-11 1.43E-08
CSC0300B-PLG-LF	1	1.20E-03	(19.5)	4.52E-09	(20.0)	1.41E-11 1.43E-08
RHR801AA-800-CC	1	2.50E-03	(12.5)	4.52E-09	(22.0)	1.41E-11 1.43E-08
NAVY01CA-FMS-CC	1	2.50E-03	(12.5)	4.52E-09	(22.0)	1.41E-11 1.43E-08
COO001P-FMS-CC	1	3.00E-03	(7.5)	4.51E-09	(25.5)	1.41E-11 1.43E-08
RHR020AA-P-UUM	1	3.00E-03	(7.5)	4.51E-09	(25.5)	1.42E-11 1.43E-08
RHR020AA-P-NUUUM	1	3.00E-03	(7.5)	4.51E-09	(25.5)	1.42E-11 1.43E-08
LCS0002A-P-UUM	1	3.00E-03	(7.5)	4.51E-09	(25.5)	1.41E-11 1.43E-08
RHR01AX-RTX-LFB	1	6.20E-03	(5.0)	4.50E-09	(28.0)	1.41E-11 1.43E-08
SUR-008-V	1	2.10E-03	(16.5)	2.14E-10	(29.0)	5.43E-13 7.28E-10
LPCI-FMS-DM	1	2.50E-03	(12.5)	1.79E-10	(30.0)	4.25E-13 5.27E-10
TDRFP-T-DE-15H	1	2.60E-03	(10.0)	1.72E-10	(31.0)	3.43E-13 4.76E-10
LPCI-BETA	1	1.10E-01	(4.0)	3.64E-12	(32.0)	1.72E-15 1.11E-11
FLOW-RHR-A3	1	1.00E+00	(2.0)	0.00E+00	(34.0)	
NOFLOW-RHR-A1	1	1.00E+00	(2.0)	0.00E+00	(34.0)	
SCSF068A-DEWER	1	1.00E+00	(2.0)	0.00E+00	(34.0)	
OPTAIL-VENT-4H	3	2.10E-03	(16.5)	-8.51E-12	(36.0)	-2.54E-11 -1.37E-14
RA-5V-1-2H	25	2.10E-03	(16.5)	-1.73E-10	(37.3)	-6.60E-10 -6.72E-13

SEQUENCE 112  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	F.05/FE.05*	F.95/FE.95*
SUR-0U-V	27	2.10E-03	( 16.5)	46.3	( 1.5)	7.22	1.24
SUR-00B-V	1	2.10E-03	( 16.5)	46.3	( 1.5)	1.02	1.00
1EB36YB-6CD-LF	27	7.20E-05	( 34.5)	31.5	( 3.5)	4.63	1.24
1EB235AA-800-LF	2	7.20E-05	( 34.5)	31.5	( 3.5)	4.63	1.24
C08001P-600-LF	1	8.40E-05	( 34.5)	31.0	( 5.5)	1.61	0.98
1EB16211-800	1	8.40E-05	( 34.5)	31.0	( 5.5)	1.01	0.98
C5C0300A-PLG-LF	3	1.20E-03	( 19.5)	5.5	( 7.5)	1.51	1.12
C5C0302B-PLG-LF	1	1.20E-03	( 19.5)	5.5	( 7.5)	1.51	1.12
C00001F-PLG-LF	3	5.80E-04	( 24.5)	4.9	( 9.5)	1.24	1.11
C2D001F-PLG-LF	1	5.80E-04	( 24.5)	4.9	( 9.5)	1.24	1.11
RHR01AA-PTX-LFB	1	6.20E-03	( 5.0)	4.6	( 11.0)	1.12	0.99
RHR02AA-P-NOLUM	1	3.00E-03	( 7.5)	3.7	( 12.5)	1.17	0.95
C0D001P-P-UUM	1	3.00E-03	( 7.5)	3.7	( 12.5)	1.17	0.95
RHR01AA-900-CC	1	2.50E-03	( 12.5)	3.2	( 15.5)	1.08	1.15
NWV01CA-FMS-L	1	2.50E-03	( 12.5)	3.2	( 15.5)	1.08	1.15
C0D001P-PMS-X	1	2.50E-03	( 12.5)	3.2	( 15.5)	1.08	1.15
LPCI-PMS-CN	1	2.50E-03	( 12.5)	3.2	( 15.5)	1.08	1.15
NWV01CA-FMS-LF	1	5.40E-04	( 26.0)	2.9	( 18.0)	0.98	1.00
RHR02AA-P-UUM	1	3.00E-03	( 7.5)	2.4	( 19.5)	1.28	0.86
LCS002A-P-UUM	1	3.00E-03	( 7.5)	2.4	( 19.5)	1.28	0.86
RHR01AA-800-LF	1	5.00E-04	( 28.5)	2.3	( 21.0)	1.01	1.02
C5CF062A-VCC-LF	1	5.00E-04	( 28.5)	2.1	( 22.5)	1.03	0.91
RHR148AA-V00-LF	1	5.00E-04	( 28.5)	2.1	( 22.5)	1.03	0.91
RHR301AX-STR	1	1.10E-04	( 31.0)	1.3	( 26.0)	1.00	1.01
1EB36YB-B-UUM	2	1.00E-04	( 32.5)	1.3	( 25.5)	1.31	0.98
1E36YB-V-UUM	2	1.00E-04	( 32.5)	1.3	( 25.5)	1.31	0.98
NWV01CA-F-UUM	1	5.00E-04	( 28.5)	1.2	( 27.0)	1.01	1.01
TDR1P-T-0E-15H	1	2.60E-03	( 10.0)	1.0	( 28.0)	1.18	1.00
RA-5V-1-2H	25	2.10E-03	( 16.5)	0.5	( 29.5)	1.00	1.00
OPFAIL-VENT-4H	3	2.0E-03	( 16.5)	0.5	( 29.5)	1.00	1.00
RHR02AA-PMS-LF	1	1.10E-03	( 21.5)	0.0	( 32.5)		
NWV01AX-ADX-LF1	1	8.40E-04	( 23.0)	0.0	( 32.5)		
C0D001P-PMS-LF	1	1.10E-03	( 21.5)	0.0	( 32.5)		
LPCI-BETA	1	1.10E-01	( 4.0)	0.0	( 32.5)		
FLOW-RHR-A3	1	1.00E+00	( 2.0)				
NOFLOW-RHR-A1	1	1.00E+00	( 2.0)				
SCSF06AA-DENER	1	1.00E+00	( 2.0)				



SEQUENCE LIST

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT POSC-L-SEQ2C WITH TOP EVENT FREQUENCY 1.82E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMASSETS.DNF)

2	1	5	2.81E-11	0.15438	1E836YB-BCO-LF	1E-SLOCA	/RA-SV-1-2H	RHR010A-MTX-LFB
3	4	5	1.36E-11	0.22907	SUR-005-V	1E-SLOCA	/RA-SV-1-2H	RHR020A-P-UUM
4	2	5	1.36E-11	0.30377	1E836YB-BCO-LF	1E-SLOCA	L0SC002A-P-UUM	/RA-SV-1-2H
5	3	6	1.36E-11	0.37847	SUR-005-V	1E-SLOCA	/RA-SV-1-2H	RHR020A-P-UUM
6	5	5	1.36E-11	0.45317	1E836YB-BCO-LF	SUR-005-V	1E-SLOCA	/RA-SV-1-2H
7	6	5	1.13E-11	0.51542	SCSF06AA-DENER	C00G01P-P-UUM	/RA-SV-1-2H	RHR010A-B00-CC
8	7	5	1.13E-11	0.57766	1E836YB-BCO-LF	1E-SLOCA	C00G01P-PMS-CC	/RA-SV-1-2H
9	8	5	1.13E-11	0.63991	SUR-005-V	1E-SLOCA	NWY010A-PMS-CC	/RA-SV-1-2H
10	9	5	7.54E-12	0.68141	1E836YB-BCO-LF	CSC0300A-PLG-LF	1E-SLOCA	/RA-SV-1-2H
11	10	5	7.54E-12	0.72291	SUR-005-V	CSC0300A-PLG-LF	1E-SLOCA	/RA-SV-1-2H
12	11	5	5.43E-12	0.75279	1E836YB-B-UUM	CSC0300A-PLG-LF	1E-SLOCA	/RA-SV-1-2H
13	12	5	5.43E-12	0.78267	SUR-005-V	CSC0300B-PLG-LF	1E-SLOCA	/OFFAIL-VENT-4H
14	13	5	4.98E-12	0.81006	1E836YB-BCO-LF	1E-SLOCA	/RA-SV-1-2H	RHR020A-PMS-LF
15	14	5	4.98E-12	0.83745	SUR-005-V	C00G01P-PMS-LF	1E-SLOCA	/RA-SV-1-2H
16	15	5	3.65E-12	0.87856	1E836YB-BCO-LF	1E-SLOCA	NWY010A-ACK-LF1	/RA-SV-1-2H
17	16	5	3.65E-12	0.89048	SUR-005-V	C00G01F-PLG-LF	1E-SLOCA	/RA-SV-1-2H
18	17	5	2.63E-12	0.91292	1E836YB-BCO-LF	C00G01F-PLG-LF	1E-SLOCA	/RA-SV-1-2H
19	18	5	2.63E-12	0.92736	SUR-005-V	C2D0G01F-PLG-LF	1E-SLOCA	/OFFAIL-VENT-4H
20	19	5	2.44E-12	0.94081	1E836YB-BCO-LF	1E-SLOCA	NWY010A-PMS-LF	/RA-SV-1-2H
21	20	5			SUR-005-V			

42	24	3	2.26E-12	0.95326	1EB36YB-BCD-LF	* IE-SLOCA	* NMVY01CA-F-UEJM	* /RA-SV-1-2H	*
43	23	5	2.26E-12	0.96571	SUR-005-V	* IE-SLOCA	* /RA-SV-1-2H	* RHRB01AA-BCD-LF	*
44	22	6	2.27E-12	0.97876	1EB36YB-BCD-LF	* FLOW-RHR-A3	* IE-SLOCA	* /RA-SV-1-2H	*
45	21	5	2.26E-12	0.99061	RHR48AA-VCC-LF	* SUR-005-V	* IE-SLOCA	* /RA-SV-1-2H	*
46	25	6	4.98E-13	0.99334	1EB36YB-BCD-LF	* IE-SLOCA	* WGFLOW-RHR-A1	* /RA-SV-1-2H	*
47	26	4	4.50E-13	0.99582	SUR-008-V	* SUR-005-V	* LPCI-PMS-DM	* /OPTAIL-VENT-4H	*
48	28	5	3.80E-13	0.99791	1EB16211-BCD	* TDRFP-7-DE-15N	* IE-SLOCA	* /RA-SV-1-2H	*
49	27	5	3.80E-13	1.00000	SUR-005-V	* 1EB36YB-BCD-LF	* IE-SLOCA	* /RA-SV-1-2H	*
50					1EB36YB-BCD-LF	* CCSB061P-BCD-LF	* IE-SLOCA		*
51					SUR-005-V				
52									
53									
54									
55									
56									
57									

TEMAC RUN TIME IN CPU SECONDS 30.54

SEQUENCE L14

TOP EVENT CPDSB1-L-SEQ2B CONTAINS 71 EVENTS IN 85 CUT SETS

THE FREQUENCY OF TOP EVENT CPDSB1-L-SEQ2B IS 1.06E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB1-L-SEQ2B

N	300
MEAN	1.72E-08
STD DEV	8.42E-08
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	7.35E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

$$\begin{aligned} \text{RISK REDUCTION} &= \text{PD} \times \text{EV}(J) \\ &= \text{TE}^* - \text{TEF}(\text{EVALUATED WITH EV}(J) = 0) \end{aligned}$$

2. FOR BASE EVENTS ONLY:

$$\begin{aligned} \text{RISK INCREASE} &= \text{PD} - \text{RISK REDUCTION} \\ &= \text{PD} \times (1 - \text{EV}(J)) \\ &= \text{TEF}(\text{EVALUATED WITH EV}(J) = 1) - \text{TEF} \end{aligned}$$

SEQUENCE L14  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-003-L	85	1.60E-01	( 10.0)	1.06E-08	( 1.5)	0.00E+00
CONT-LEAK	85	7.50E-01	( 8.0)	1.06E-08	( 1.5)	0.00E+00
PA-6-4H	48	5.00E-01	( 9.0)	8.98E-09	( 3.0)	0.00E+00
1E82368-8CD-LF	24	7.20E-07	( 66.0)	4.37E-09	( 4.0)	0.00E+00
1E8235A-8CD-LF	23	7.20E-07	( 66.0)	4.02E-09	( 5.0)	0.00E+00
PA-NONE	11	1.00E+00	( 4.0)	1.63E-09	( 6.0)	0.00E+00
1E427B-V-UJM	3	1.00E-04	( 54.5)	9.00E-10	( 7.0)	0.00E+00
RHR01AX-HTX-LFB	2	6.20E-03	( 11.5)	8.07E-10	( 8.0)	0.00E+00
CSC0300A-PLG-LF	6	1.20E-03	( 28.5)	8.06E-10	( 9.0)	0.00E+00
CSC0300B-PLG-LF	4	1.20E-03	( 28.5)	8.04E-10	( 10.0)	0.00E+00
RHR018X-HTX-LFB	1	6.20E-03	( 11.5)	8.04E-10	( 11.0)	0.00E+00
1E411A-V-UJM	2	1.00E-04	( 54.5)	6.41E-10	( 12.0)	0.00E+00
SCSF06AA-DENER	2	1.00E+00	( 4.0)	3.90E-10	( 15.0)	0.00E+00
RHR022AA-P-UJM	2	3.00E-03	( 16.0)	3.90E-10	( 15.0)	0.00E+00
LCSC002A-P-UJM	2	3.00E-03	( 16.0)	3.90E-10	( 15.0)	0.00E+00
RHR022AA-P-UJM	2	3.00E-03	( 16.0)	3.90E-10	( 15.0)	0.00E+00
COD001P-P-UJM	2	3.00E-03	( 16.0)	3.90E-10	( 15.0)	0.00E+00
COD001F-PLG-LF	6	5.80E-04	( 37.5)	3.77E-10	( 16.0)	0.00E+00
RHR028P-P-UJM	1	3.00E-03	( 16.0)	3.56E-10	( 20.5)	0.00E+00
RHR028B-P-UJM	1	3.00E-03	( 16.0)	3.89E-10	( 20.5)	0.00E+00
SCSF068B-DENER	1	1.00E+00	( 4.0)	3.89E-10	( 20.5)	0.00E+00
C2D001P-P-UJM	1	3.00E-03	( 16.0)	3.89E-10	( 20.5)	0.00E+00
C2D001F-PLG-LF	4	5.80E-04	( 37.5)	3.87E-10	( 23.0)	0.00E+00
RHR0101A-B00-CC	2	2.50E-03	( 22.5)	3.25E-10	( 25.0)	0.00E+00
NWV0101A-FMS-CC	2	2.50E-03	( 22.5)	3.25E-10	( 25.0)	0.00E+00
COD001P-PMS-CC	2	2.50E-03	( 22.5)	3.25E-10	( 25.0)	0.00E+00
RHR018B-B00-CC	1	2.50E-03	( 22.5)	3.24E-10	( 28.0)	0.00E+00
C2D001P-PMS-CC	1	2.50E-03	( 22.5)	3.24E-10	( 28.0)	0.00E+00
SEVY03CB-FMS-CC	1	2.50E-03	( 22.5)	3.24E-10	( 28.0)	0.00E+00
1E82368-B-UJM	2	1.00E-04	( 54.5)	3.20E-10	( 30.5)	0.00E+00
1E8235A-B-UJM	2	1.00E-04	( 54.5)	3.20E-10	( 30.5)	0.00E+00
EE-ESCD300A-PLG	1	7.20E-04	( 36.0)	2.59E-10	( 32.0)	0.00E+00
RHR022AA-PMS-LF	2	1.10E-03	( 31.5)	1.43E-10	( 33.5)	0.00E+00
COD001P-PMS-LF	2	1.10E-03	( 31.5)	1.43E-10	( 33.5)	0.00E+00
RHR028B-PMS-LF	1	1.10E-03	( 31.5)	1.43E-10	( 35.5)	0.00E+00
C2D001P-PMS-LF	1	1.10E-03	( 31.5)	1.43E-10	( 35.5)	0.00E+00
NWV0101A-ACK-LFI	2	8.40E-04	( 34.5)	1.09E-10	( 37.0)	0.00E+00
SEVY03AX-ACK-LFI	1	8.40E-04	( 34.5)	1.09E-10	( 36.0)	0.00E+00
NWV0101A-FMS-LF	2	5.40E-04	( 39.5)	7.03E-11	( 39.0)	0.00E+00
SEVY03CB-FMS-LF	1	5.40E-04	( 39.5)	7.00E-11	( 40.0)	0.00E+00
CSCF068A-VCC-LF	2	5.00E-04	( 45.0)	6.51E-11	( 43.0)	0.00E+00
RHR048AA-V00-LF	2	5.00E-04	( 45.0)	6.51E-11	( 43.0)	0.00E+00
RHR0101A-B00-LF	2	5.00E-04	( 45.0)	6.51E-11	( 43.0)	0.00E+00
NWV0101A-F-UJM	2	5.00E-04	( 45.0)	6.51E-11	( 43.0)	0.00E+00
FLOW-RHR-A3	2	1.00E+00	( 4.0)	6.51E-11	( 43.0)	0.00E+00

FLOW-RHR-B3	1	1.00E+00 ( 4.0)	6.48E-11 ( 48.5)		
RHRF488B-V00-LF	1	5.00E-04 ( 45.0)	6.48E-11 ( 48.5)	0.00E+00	2.70E-10
RHRB018B-B00-LF	1	5.00E-04 ( 45.0)	6.48E-11 ( 48.5)	0.00E+00	2.41E-10
20G1PK18-R00-LFO	1	5.00E-04 ( 45.0)	6.48E-11 ( 48.5)	0.00E+00	2.39E-10
SEVY03CB-F-UUM	1	5.00E-04 ( 45.0)	6.48E-11 ( 48.5)	0.00E+00	3.61E-10
CSCF068B-VCC-LF	1	5.00E-04 ( 45.0)	6.48E-11 ( 48.5)	0.00E+00	2.70E-10
1EB36YB-BCO-LF	23	7.20E-05 ( 66.0)	5.55E-11 ( 52.0)	0.00E+00	5.11E-10
1EB35Y2X-BCO-LF	2	7.20E-05 ( 66.0)	3.73E-11 ( 53.5)	0.00E+00	2.50E-10
1EB1Y22X-BCO	2	7.20E-05 ( 66.0)	3.73E-11 ( 53.5)	0.00E+00	2.50E-10
RA-5V-1-2H	25	2.10E-03 ( 26.5)	2.08E-11 ( 55.0)	0.00E+00	6.95E-11
1EB36Y1X-BCO-LF	1	7.20E-05 ( 66.0)	1.87E-11 ( 56.0)	0.00E+00	1.25E-10
NOFLOW-RHR-A1	2	1.00E+00 ( 4.0)	1.43E-11 ( 57.5)		
RHR301AX-STR	2	1.10E-04 ( 50.5)	1.43E-11 ( 57.5)	0.00E+00	3.18E-11
NOFLOW-RHR-B1	1	1.00E+00 ( 4.0)	1.43E-11 ( 59.5)		
RHR301BX-STR	1	1.10E-04 ( 50.5)	1.43E-11 ( 59.5)	0.00E+00	3.16E-11
CCB00G1P-BCO-LF	2	8.40E-05 ( 59.5)	1.09E-11 ( 61.5)	0.00E+00	7.13E-11
1EB16211-BCO	2	8.40E-05 ( 59.5)	1.09E-11 ( 61.5)	0.00E+00	7.13E-11
CCB20G1P-BCO-LF	1	8.40E-05 ( 59.5)	1.09E-11 ( 63.5)	0.00E+00	7.12E-11
1EB16212-BCO	1	8.40E-05 ( 59.5)	1.09E-11 ( 63.5)	0.00E+00	7.12E-11
1EB211YX-BCO-LF	1	7.20E-05 ( 66.0)	9.33E-12 ( 65.5)	0.00E+00	6.24E-11
SEVB001X-BCO-LF	1	7.20E-05 ( 66.0)	9.33E-12 ( 65.5)	0.00E+00	6.24E-11
1EB36YB-B-UUM	2	1.00E-04 ( 54.5)	1.35E-12 ( 67.5)	0.00E+00	3.12E-12
1EB36YB-V-UUM	2	1.00E-04 ( 54.5)	1.35E-12 ( 67.5)	0.00E+00	3.12E-12
1EB235XA-BCO-LF	2	7.20E-05 ( 66.0)	9.69E-13 ( 69.5)	0.00E+00	1.60E-12
OPFAIL-VENT-4H	2	2.10E-03 ( 26.5)	9.69E-13 ( 69.5)	0.00E+00	1.60E-12

SEQUENCE L14  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK			UPPER 5%
				INCREASE	(RANK)	LOWER 5%	
1E8234B-800-LF	24	7.20E-05	( 66.0)	6.07E-05	( 1.0)	0.00E+00	4.31E-04
1E8235A-800-LF	23	7.20E-05	( 66.0)	5.59E-05	( 2.0)	0.00E+00	4.11E-04
1E421B-V-UJM	3	1.00E-04	( 54.5)	9.00E-04	( 3.0)	0.00E+00	5.55E-05
1E411A-V-UJM	2	1.00E-04	( 54.5)	6.41E-04	( 4.0)	0.00E+00	3.43E-05
1E8235A-B-UJM	2	1.00E-04	( 54.5)	3.20E-04	( 5.5)	0.00E+00	1.71E-05
1E8234B-B-UJM	2	1.00E-04	( 54.5)	3.20E-04	( 5.5)	0.00E+00	1.71E-05
1E834FB-800-LF	23	7.20E-05	( 66.0)	7.70E-07	( 7.0)	0.00E+00	6.47E-06
000G01F-PLG-LF	6	5.80E-04	( 37.5)	6.71E-07	( 8.0)	0.00E+00	6.27E-06
C5C030A-PLG-LF	5	1.20E-03	( 28.5)	6.71E-07	( 9.0)	0.00E+00	6.27E-06
C2D001F-PLG-LF	4	5.80E-04	( 37.5)	6.70E-07	( 10.0)	0.00E+00	6.26E-06
C5C030B-PLG-LF	4	1.20E-03	( 28.5)	6.69E-07	( 11.0)	0.00E+00	6.26E-06
1E8352X-800-LF	2	7.20E-05	( 66.0)	5.18E-07	( 12.5)	0.00E+00	3.73E-06
1E8122X-800	2	7.20E-05	( 66.0)	5.18E-07	( 12.5)	0.00E+00	3.73E-06
EE-C5C030A-PLG	1	7.20E-04	( 36.0)	3.60E-07	( 14.0)	0.00E+00	3.08E-06
1E8301Y-800-LF	1	7.20E-05	( 66.0)	2.59E-07	( 15.0)	0.00E+00	1.87E-06
C0G001P-800-LF	2	8.40E-05	( 59.5)	1.30E-07	( 16.5)	0.00E+00	9.41E-07
1E816211-800	2	8.40E-05	( 59.5)	1.30E-07	( 16.5)	0.00E+00	9.41E-07
RHR301AX-STR	2	1.10E-04	( 50.5)	1.30E-07	( 16.0)	0.00E+00	9.42E-07
RHR42AA-V00-LF	2	5.00E-04	( 45.0)	1.30E-07	( 20.5)	0.00E+00	9.41E-07
NAVY01CA-F-UJM	2	5.00E-04	( 45.0)	1.30E-07	( 20.5)	0.00E+00	9.41E-07
RHR01AA-800-LF	2	5.00E-04	( 45.0)	1.30E-07	( 20.5)	0.00E+00	9.41E-07
C5CF068A-VCC-LF	2	5.00E-04	( 45.0)	1.30E-07	( 20.5)	0.00E+00	9.41E-07
NAVY01CA-FMS-LF	2	5.40E-04	( 39.5)	1.30E-07	( 23.0)	0.00E+00	9.41E-07
NAVY01AX-ACK-LFI	2	8.40E-04	( 34.5)	1.30E-07	( 24.0)	0.00E+00	9.41E-07
C0G001P-FMS-LF	2	1.10E-03	( 31.5)	1.30E-07	( 25.5)	0.00E+00	9.41E-07
RHR024A-FMS-LF	2	1.10E-03	( 31.5)	1.30E-07	( 25.5)	0.00E+00	9.41E-07
RHR01AA-800-LF	2	2.50E-03	( 22.5)	1.30E-07	( 28.0)	0.00E+00	9.41E-07
NAVY01CA-FMS-CC	2	2.50E-03	( 22.5)	1.30E-07	( 28.0)	0.00E+00	9.41E-07
C0G001P-FMS-CC	2	2.50E-03	( 22.5)	1.30E-07	( 28.0)	0.00E+00	9.41E-07
RHR02AA-P-UJM	2	3.00E-03	( 16.0)	1.30E-07	( 31.5)	0.00E+00	9.39E-07
RHR02AA-P-UJM	2	3.00E-03	( 16.0)	1.30E-07	( 31.5)	0.00E+00	9.40E-07
LC5C002A-P-UJM	2	3.00E-03	( 16.0)	1.30E-07	( 31.5)	0.00E+00	9.39E-07
SEV8001X-800-LF	1	7.20E-05	( 66.0)	1.30E-07	( 34.5)	0.00E+00	9.33E-07
1E8211Y-800-LF	1	7.20E-05	( 66.0)	1.30E-07	( 34.5)	0.00E+00	9.33E-07
C082501P-800-LF	1	8.40E-05	( 59.5)	1.30E-07	( 36.5)	0.00E+00	9.33E-07
1E816212-800	1	8.40E-05	( 59.5)	1.30E-07	( 36.5)	0.00E+00	9.33E-07
RHR3018X-STR	1	1.10E-04	( 50.5)	1.30E-07	( 38.0)	0.00E+00	9.33E-07
RHR42AA-V00-LF	1	5.00E-04	( 45.0)	1.30E-07	( 41.0)	0.00E+00	9.33E-07
RHR018B-800-LF	1	5.00E-04	( 45.0)	1.30E-07	( 41.0)	0.00E+00	9.33E-07
2DG1K18-R00 LFO	1	5.00E-04	( 45.0)	1.30E-07	( 41.0)	0.00E+00	9.33E-07
SEVY03CB-F-UJM	1	5.00E-04	( 45.0)	1.30E-07	( 41.0)	0.00E+00	9.33E-07
C5CF068B-VCC-LF	1	5.00E-04	( 45.0)	1.30E-07	( 41.0)	0.00E+00	9.33E-07
SEVY03CB-FMS-LF	1	5.40E-04	( 39.5)	1.30E-07	( 44.0)	0.00E+00	9.32E-07
SEVY03AX-ACK-LFI	1	8.40E-04	( 34.5)	1.29E-07	( 45.0)	0.00E+00	9.33E-07

RHRC028B-PMS-LF	1	1.10E-03	( 31.5)	1.29E-07	( 46.5)	0.00E+00	9.32E-07
CZD001P-PMS-LF	1	1.10E-03	( 31.5)	1.29E-07	( 46.5)	0.00E+00	9.32E-07
RHRH01AX-HTX-LFB	2	6.20E-03	( 11.5)	1.29E-07	( 48.0)	0.00E+00	9.32E-07
RHRB018B-B00-CC	1	2.50E-03	( 22.5)	1.29E-07	( 50.0)	0.00E+00	9.32E-07
CZD001P-PMS-CC	1	2.50E-03	( 22.5)	1.29E-07	( 50.0)	0.00E+00	9.32E-07
SEVY03CB-FMS-CC	1	2.50E-03	( 22.5)	1.29E-07	( 50.0)	0.00E+00	9.32E-07
RHRC028B-P-UUM	1	7.00E-03	( 16.0)	1.29E-07	( 53.0)	0.00E+00	9.32E-07
RHRC028B-P-NDUUM	1	3.00E-03	( 16.0)	1.29E-07	( 53.0)	0.00E+00	9.32E-07
CZD001P-P-UUM	1	3.00E-03	( 16.0)	1.29E-07	( 53.0)	0.00E+00	9.32E-07
RHRH01BX-HTX-LFB	1	6.20E-03	( 11.5)	1.29E-07	( 55.0)	0.00E+00	9.24E-07
SLR-003-L	85	1.60E-01	( 10.0)	5.58E-08	( 56.0)	0.00E+00	1.64E-07
1EB235XA-BCO-LF	2	7.20E-05	( 66.0)	1.35E-08	( 57.0)	0.00E+00	3.20E-08
1EB36YB-B-UUM	2	1.00E-04	( 54.5)	1.35E-08	( 58.5)	0.00E+00	3.20E-08
1E36YB-V-UUM	2	1.00E-04	( 54.5)	1.35E-08	( 58.5)	0.00E+00	3.20E-08
RA-5V-1-2H	25	2.10E-03	( 26.5)	9.90E-09	( 60.0)	0.00E+00	6.72E-08
RA-6-4R	48	5.00E-01	( 9.0)	8.98E-09	( 61.0)	0.00E+00	0.00E+00
CONT-LEAK	85	7.50E-01	( 8.0)	3.54E-09	( 62.0)	0.00E+00	1.73E-09
OPFAIL-VENT-4H	2	2.10E-03	( 26.5)	4.60E-10	( 63.0)	0.00E+00	0.00E+00
SCSF06AA-DEMER	2	1.00E+00	( 4.0)	0.00E+00	( 67.0)	0.00E+00	0.00E+00
RA-NONE	11	1.00E+00	( 4.0)	0.00E+00	( 67.0)	0.00E+00	0.00E+00
NOFLOW-RHR-B1	1	1.00E+00	( 4.0)	0.00E+00	( 67.0)	0.00E+00	0.00E+00
NOFLOW-RHR-A1	2	1.00E+00	( 4.0)	0.00E+00	( 67.0)	0.00E+00	0.00E+00
FLOW-RHR-B3	1	1.00E+00	( 4.0)	0.00E+00	( 67.0)	0.00E+00	0.00E+00
FLOW-RHR-A3	2	1.00E+00	( 4.0)	0.00E+00	( 67.0)	0.00E+00	0.00E+00
SCSF06BB-DEMER	1	1.00E+00	( 4.0)	0.00E+00	( 67.0)	0.00E+00	0.00E+00

SEQUENCE 1.14  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y.05/TE.05*	Y.95/TE.95*
SUR-003-L	85	1.60E-01	( 10.0)	71.5	( 1.0)	NA	0.62
CONT-LEAK	85	7.50E-01	( 8.0)	7.1	( 2.0)	NA	0.75
RHR018X-WX-LFB	1	6.20E-03	( 11.5)	6.8	( 3.5)	NA	0.95
RHR018X-WX-LFB	2	6.20E-03	( 11.5)	6.8	( 3.5)	NA	0.95
CC8001P-BCO-LF	2	8.40E-05	( 59.5)	5.6	( 6.5)	NA	1.00
CC82001P-BCO-LF	1	8.40E-05	( 59.5)	5.6	( 6.5)	NA	1.00
1E816212-BCO	1	8.40E-05	( 59.5)	5.6	( 6.5)	NA	1.00
1E816211-BCO	2	8.40E-05	( 59.5)	5.6	( 6.5)	NA	1.00
1E83611X-BCO-LF	1	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
SEV8001X-BCO-LF	1	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E8361YB-BCO-LF	1	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E8351YX-BCO-LF	1	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E8235XA-BCO-LF	1	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E82368-BCO-LF	24	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E8235A-BCO-LF	23	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E8211YX-BCO-LF	1	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E81Y22X-BCO	2	7.20E-05	( 66.0)	5.5	( 13.0)	NA	1.10
1E82368-B-UJM	2	1.00E-04	( 54.5)	5.3	( 20.5)	NA	1.02
1E42YB-V-UJM	3	1.00E-04	( 54.5)	5.3	( 20.5)	NA	1.02
1E36YB-V-UJM	2	1.00E-04	( 54.5)	5.3	( 20.5)	NA	1.02
1E41YA-V-UJM	2	1.00E-04	( 54.5)	5.3	( 20.5)	NA	1.02
1E836YB-B-UJM	2	1.00E-04	( 54.5)	5.3	( 20.5)	NA	1.02
1E8235A-B-UJM	2	1.00E-04	( 54.5)	5.3	( 20.5)	NA	1.02
EE-CSCD300A-PLG	1	7.20E-04	( 36.0)	3.4	( 24.0)	NA	1.03
NWVY01AX-ACX-LF1	2	8.40E-04	( 34.5)	2.9	( 25.5)	NA	1.01
SEVY03AK-ACX-LF1	1	8.40E-04	( 34.5)	2.9	( 25.5)	NA	1.01
RHRC02BB-PMS-LF	1	1.10E-03	( 31.5)	2.1	( 28.5)	NA	1.03
C2D001P-PMS-LF	1	1.10E-03	( 31.5)	2.1	( 28.5)	NA	1.03
RHRC02AA-PMS-LF	2	1.10E-03	( 31.5)	2.1	( 28.5)	NA	1.03
C0D001P-PMS-LF	2	1.10E-03	( 31.5)	2.1	( 28.5)	NA	1.03
NWVY01CA-FMS-LF	2	5.40E-04	( 39.5)	1.9	( 31.5)	NA	1.00
SEVY03CB-FMS-LF	1	5.40E-04	( 39.5)	1.9	( 31.5)	NA	1.00
RHRC02BB-P-NDUJM	1	3.00E-03	( 16.0)	1.9	( 34.5)	NA	1.21
RHRC02AA-P-NDUJM	2	3.00E-03	( 16.0)	1.9	( 34.5)	NA	1.21
C2D001P-P-UJM	1	3.00E-03	( 16.0)	1.9	( 34.5)	NA	1.21
C0D001P-P-UJM	2	3.00E-03	( 16.0)	1.9	( 34.5)	NA	1.21
C2D001F-PLG-LF	4	5.80E-04	( 37.5)	1.8	( 37.5)	NA	1.05
C0D001F-PLG-LF	6	5.80E-04	( 37.5)	1.8	( 37.5)	NA	1.05
NWVY01CA-F-UJM	2	5.00E-04	( 45.0)	1.7	( 39.5)	NA	0.99
SEVY03CB-F-UJM	1	5.00E-04	( 45.0)	1.7	( 39.5)	NA	0.99
CSC0300B-PLG-LF	4	1.20E-03	( 28.5)	1.5	( 41.5)	NA	1.13
CSC0300A-PLG-LF	6	1.20E-03	( 28.5)	1.5	( 41.5)	NA	1.13
RHR3018X-STR	1	1.10E-04	( 50.5)	0.7	( 43.5)	NA	1.00
RHR3018X-STR	2	1.10E-04	( 50.5)	0.7	( 43.5)	NA	1.00
CSCF068A-VCC-LF	2	5.00E-04	( 45.0)	0.0	( 53.5)	NA	1.00



RHRF42B-V00-LF	1	5.00E-04	( 45.0)	0.0	( 53.5)
RHRF42A-V00-LF	2	5.00E-04	( 45.0)	0.0	( 53.5)
PXRC02BB-P-UUM	1	3.00E-03	( 16.0)	0.0	( 53.5)
RHRC02AA-P-UUM	2	3.00E-03	( 16.0)	0.0	( 53.5)
RHRB01BB-B00-LF	1	5.00E-04	( 45.0)	0.0	( 53.5)
RHRB01BB-B00-CC	1	2.50E-03	( 22.5)	0.0	( 53.5)
RHRB01AA-B00-LF	2	5.00E-04	( 45.0)	0.0	( 53.5)
RHRB01AA-B00-CC	2	2.50E-03	( 22.5)	0.0	( 53.5)
C2DG01P-PMS-CC	1	2.50E-03	( 22.5)	0.0	( 53.5)
RA-5V-1-2H	25	2.10E-03	( 26.5)	0.0	( 53.5)
OPFAIL-VENT-4H	2	2.10E-03	( 26.5)	0.0	( 53.5)
NWVY01CA-FMS-CC	2	2.10E-03	( 22.5)	0.0	( 53.5)
CDDG01P-PMS-CC	2	2.50E-03	( 22.5)	0.0	( 53.5)
LCSC002A-P-UUM	2	3.00E-03	( 16.0)	0.0	( 53.5)
SEVY03CB-FMS-CC	1	2.50E-03	( 22.5)	0.0	( 53.5)
ZDG1PK18-R-V-LFO	1	5.00E-04	( 45.0)	0.0	( 53.5)
CSCF069B-V00-LF	1	5.00E-04	( 45.0)	0.0	( 53.5)
SCSF06AA-DENER	2	1.00E+00	( 4.0)		
RA-NONE	11	1.00E+00	( 4.0)		
RA-6-4H	48	5.00E-01	( 9.0)		
NOFLOW-RHR-31	1	1.00E+00	( 4.0)		
NOFLOW-RHR-A1	2	1.00E+00	( 4.0)		
FLOW-RHR-B3	1	1.00E+00	( 4.0)		
FLOW-RHR-A3	2	1.00E+00	( 4.0)		
SCSF06BB-DENER	1	1.00E+00	( 4.0)		

SEQUENCE 114

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CP0581-L-SEQ28 WITH TOP EVENT FREQUENCY 1.06E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	2	6	8.04E-10	0.07557	1ER2368-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
3					RHR01AX-HTX-LFB	* SUR-003-L	*		*
4	1	6	6.04E-10	0.15114	1EB235A-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
5					RHR01BX-HTX-LFB	* SUR-003-L	*		*
6	3	6	4.32E-10	0.19177	1E42YB-V-UJM	* CONT-LEAK	* CSC0300A-PLG-LF	* 1E-SLOCA	*
7					RA-NONE	* SUR-003-L	*		*
8	4	6	4.32E-10	0.23240	1E41YA-V-UJM	* CONT-LEAK	* CSC0300B-PLG-LF	* 1E-SLOCA	*
9					RA-NONE	* SUR-003-L	* CONT-LEAK	* 1E-SLOCA	*
10	11	6	3.89E-10	0.26897	1EB235A-BCC-LF	* C0G01P-P-UJM	* 1E-SLOCA	* RA-6-4H	*
11					RA-6-4H	* SUR-003-L	*		*
12	6	6	3.89E-10	0.30554	1EB2368-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
13					RHR02AA-P-NOLJM	* SUR-003-L	* CONT-LEAK	* 1E-SLOCA	*
14	10	6	3.89E-10	0.34210	1EB2368-BCC-LF	* C0G01P-P-UJM	* 1E-SLOCA	* RA-6-4H	*
15					RA-6-4H	* SUR-003-L	*		*
16	9	7	3.89E-10	0.37867	1EB235A-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
17					RHR02BB-P-UJM	* SCF068B-DENER	* SUR-003-L	*	*
18	7	6	3.89E-10	0.41524	1EB2368-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* LCSC002A-P-UJM	*
19					RA-6-4H	* SUR-003-L	*		*
20	8	7	3.89E-10	0.45180	1EB2368-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
21					RHR02AA-P-UJM	* SCF06AA-DENER	* SUR-003-L	*	*
22	5	6	3.89E-10	0.48837	1EB235A-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
23					RHR02BB-P-NOLJM	* SUR-003-L	* CONT-LEAK	* 1E-SLOCA	*
24	17	6	3.24E-10	0.51884	1EB235A-BCC-LF	* C0G01P-PMS-CC	* 1E-SLOCA	* RA-6-4H	*
25					RA-6-4H	* SUR-003-L	* CONT-LEAK	* 1E-SLOCA	*
26	16	6	3.24E-10	0.54932	1EB2368-BCC-LF	* C0G01P-PMS-CC	* 1E-SLOCA	* RA-6-4H	*
27					RA-6-4H	* SUR-003-L	* CONT-LEAK	* 1E-SLOCA	*
28	15	6	3.24E-10	0.57979	1EB2368-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* NWY01CA-FMS-CC	*
29					RA-6-4H	* SUR-003-L	* 1E-SLOCA	* RA-6-4H	*
30	14	6	3.24E-10	0.61026	1EB235A-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
31					SEVY03CB-FMS-CC	* SUR-003-L	* 1E-SLOCA	* RA-6-4H	*
32	13	6	3.24E-10	0.64073	1EB2368-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
33					RHR01AA-B00-CC	* SUR-003-L	* 1E-SLOCA	* RA-6-4H	*
34	12	6	3.24E-10	0.67120	1EB235A-BCC-LF	* CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
35					RHR01BB-B00-CC	* SUR-003-L	* EE-CSC0300A-PLG	* 1E-SLOCA	*
36	18	6	2.59E-10	0.69552	1E42YB-V-UJM	* CONT-LEAK	* CSC0300A-PLG-LF	* 1E-SLOCA	*
37					RA-NONE	* SUR-003-L	* CSC0300B-PLG-LF	* 1E-SLOCA	*
38	20	6	2.16E-10	0.71590	1EB2368-B-UJM	* CONT-LEAK	* CSC0300B-PLG-LF	* 1E-SLOCA	*
39					RA-6-4H	* SUR-003-L	* CSC0300B-PLG-LF	* 1E-SLOCA	*
40	19	6	2.16E-10	0.73621	1EB235A-B-UJM	* CONT-LEAK	* CSC0300B-PLG-LF	* 1E-SLOCA	*
41					RA-6-4H	* SUR-003-L			*

42	22	6	2.09E-10	0.75585	1E42YB-V-UUM	* C0D001F-PLG-LF	* CONT-LEAK	* IE-SLOCA	*
43					RA-NONE	* SUR-003-L	+		
44	21	6	2.09E-10	0.77549	1E41YA-V-UUM	* C2D001F-PLG-LF	* CONT-LEAK	* IE-SLOCA	*
45					RA-NONE	* SUR-003-L	+		
46	24	6	1.56E-10	0.79011	1E8235A-BCO-LF	* CONT-LEAK	* CSCD300B-PLG-LF	* IE-SLOCA	*
47					RA-6-4H	* SUR-003-L	+		
48	23	6	1.56E-10	0.80474	1E8236B-BCO-LF	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-SLOCA	*
49					RA-6-4H	* SUR-003-L	+		
50	28	6	1.43E-10	0.81815	1E8235A-BCO-LF	* C2D001P-PMS-LF	* CONT-LEAK	* IE-SLOCA	*
51					RA-6-4H	* SUR-003-L	+		
52	27	6	1.43E-10	0.83156	1E8236B-BCO-LF	* C0D001P-PMS-LF	* CONT-LEAK	* IE-SLOCA	*
53					RA-6-4H	* SUR-003-L	+		
54	26	6	1.43E-10	0.84496	1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
55					RHRC028B-PMS-LF	* SUR-003-L	+		
56	25	6	1.43E-10	0.85837	1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
57					RHRC02AA-PMS-LF	* SUR-003-L	+		
58	30	6	1.09E-10	0.86861	1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
59					SEVY03AX-ACK-LF1	* SUR-003-L	+		
60	29	6	1.09E-10	0.87885	1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	* NWVY0TAX-ACK-LF1	*
61					RA-6-4H	* SUR-003-L	+		
62	31	6	1.04E-10	0.88867	1E8235A-B-UUM	* C2D001F-PLG-LF	* CONT-LEAK	* IE-SLOCA	*
63					RA-6-4H	* SUR-003-L	+		
64	32	6	1.04E-10	0.89849	1E8236B-B-UUM	* C0D001F-PLG-LF	* CONT-LEAK	* IE-SLOCA	*
65					RA-6-4H	* SUR-003-L	+		
66	34	6	7.52E-11	0.90556	1E8235A-BCO-LF	* C2D001F-PLG-LF	* CONT-LEAK	* IE-SLOCA	*
67					RA-6-4H	* SUR-003-L	+		
68	33	6	7.52E-11	0.91263	1E8236B-BCO-LF	* C0D001F-PLG-LF	* CONT-LEAK	* IE-SLOCA	*
69					RA-6-4H	* SUR-003-L	+		
70	36	6	7.00E-11	0.91921	1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
71					SEVY03CB-FMS-LF	* SUR-003-L	+		
72	35	6	7.00E-11	0.92579	1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	* NWVY0TCA-FMS-LF	*
73					RA-6-4H	* SUR-003-L	+		
74	45	6	6.48E-11	0.93189	1E8236B-BCO-LF	* CONT-LEAK	* CSCF068A-VCC-LF	* IE-SLOCA	*
75					RA-6-4H	* SUR-003-L	+		
76	44	7	6.48E-11	0.93798	1E8235A-BCO-LF	* CONT-LEAK	* FLOW-RHR-B3	* IE-SLOCA	*
77					RA-6-4H	* RHRF488B-V00-LF	* SUR-003-L	+	
78	43	7	6.48E-11	0.94407	1E8236B-BCO-LF	* CONT-LEAK	* FLOW-RHR-A3	* IE-SLOCA	*
79					RA-6-4H	* RHRF48AA-V00-LF	* SUR-003-L	+	
80	42	6	6.48E-11	0.95017	1E8235A-BCO-LF	* 2DG1PK18-R00-LFO	* CONT-LEAK	* IE-SLOCA	*
81					RA-6-4H	* SUR-003-L	+		
82	41	6	6.48E-11	0.95626	1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	* NWVY0TCA-F-UUM	*
83					RA-6-4H	* SUR-003-L	+		
84	40	6	6.48E-11	0.96236	1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
85					RHRB01AA-B00-LF	* SUR-003-L	+		
86	39	6	6.48E-11	0.96845	1E8235A-BCO-LF	* CONT-LEAK	* CSCFG08B-VCC-LF	* IE-SLOCA	*
87					RA-6-4H	* SUR-003-L	+		

88	38	6	6.48E-11	0.97455	1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4R	*
89	37	6	6.48E-11	0.98064	SEV03CB-F-UUM	* SUR-003-L	* IE-SLOCA	* RA-6-4R	*
90	37	6	6.48E-11	0.98064	1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4R	*
91	50	6	1.87E-11	0.98240	RHR018B-800-LF	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
92	50	6	1.87E-11	0.98240	1E8352X-BCO-LF	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
93	49	6	1.87E-11	0.98415	RA-NONE	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
94	49	6	1.87E-11	0.98415	1E8122X-BCO	* 1E836YB-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
95	48	6	1.87E-11	0.98591	RA-NONE	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
96	48	6	1.87E-11	0.98591	1E8236B-BCO-LF	* 1E8352X-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
97	47	6	1.87E-11	0.98766	RA-NONE	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
98	47	6	1.87E-11	0.98766	1E8122X-BCO	* 1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
99	46	6	1.87E-11	0.98942	RA-NONE	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
100	46	6	1.87E-11	0.98942	1E8235A-BCO-LF	* 1E836Y1X-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
101	52	7	1.43E-11	0.99076	1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	* NOFLOW-RHR-A1	*
102	51	7	1.43E-11	0.99210	RA-6-4H	* RHR307AX-STR	* SUR-003-L	* NOFLOW-RHR-A1	*
103	51	7	1.43E-11	0.99210	1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	* NOFLOW-RHR-B1	*
104	56	6	1.09E-11	0.99312	RA-6-4H	* RHR3018X-STR	* SUR-003-L	* IE-SLOCA	*
105	56	6	1.09E-11	0.99312	1E816211-BCO	* 1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
106	55	6	1.09E-11	0.99415	RA-6-4H	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
107	55	6	1.09E-11	0.99415	1E8236B-BCO-LF	* CC800G1P-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
108	54	6	1.09E-11	0.99517	RA-6-4H	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
109	54	6	1.09E-11	0.99517	1E8235A-BCO-LF	* CC826G1P-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
110	53	6	1.09E-11	0.99619	RA-6-4H	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
111	53	6	1.09E-11	0.99619	1E816212-BCO	* 1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
112	58	6	9.33E-12	0.99707	1E8211YX-BCO-LF	* 1E8236B-BCO-LF	* CONT-LEAK	* IE-SLOCA	*
113	57	6	9.33E-12	0.99795	RA-6-4H	* SUR-003-L	* IE-SLOCA	* RA-6-4R	*
114	57	6	9.33E-12	0.99795	1E8235A-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-6-4R	*
115	59	6	3.37E-12	0.99827	SEV8001X-BCO-LF	* SUR-003-L	* IE-SLOCA	* RA-5V-1-2H	*
116	59	6	3.37E-12	0.99827	1E836YB-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-5V-1-2H	*
117	61	7	1.62E-12	0.99842	RHR01AK-HTX-LFB	* SUR-003-L	* IE-SLOCA	* RA-5V-1-2H	*
118	61	7	1.62E-12	0.99842	1E836YB-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-5V-1-2H	*
119	60	6	1.63E-12	0.99857	RHR02AA-P-UUM	* SC5F06AA-DENER	* SUR-003-L	* RA-5V-1-2H	*
120	60	6	1.63E-12	0.99857	1E836YB-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-5V-1-2H	*
121	63	6	1.53E-12	0.99873	RHR02AA-P-UUM	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
122	63	6	1.53E-12	0.99873	1E836YB-BCO-LF	* CC0G01P-P-UUM	* CONT-LEAK	* IE-SLOCA	*
123	62	6	1.63E-12	0.99888	RA-5V-1-2H	* SUR-003-L	* IE-SLOCA	* LESC002A-P-UUM	*
124	62	6	1.63E-12	0.99888	1E836YB-BCO-LF	* CONT-LEAK	* IE-SLOCA	* LESC002A-P-UUM	*
125	65	6	1.36E-12	0.99901	RA-5V-1-2H	* SUR-003-L	* CONT-LEAK	* IE-SLOCA	*
126	65	6	1.36E-12	0.99901	1E836YB-BCO-LF	* CC0G01P-PMS-CC	* CONT-LEAK	* IE-SLOCA	*
127	66	6	1.36E-12	0.99914	RA-5V-1-2H	* SUR-003-L	* IE-SLOCA	* RA-5V-1-2H	*
128	66	6	1.36E-12	0.99914	1E836YB-BCO-LF	* CONT-LEAK	* IE-SLOCA	* RA-5V-1-2H	*
129	64	6	1.36E-12	0.99927	RHR01AA-800-CC	* SUR-003-L	* IE-SLOCP	* NMY010CA-FMS-CC	*
130	64	6	1.36E-12	0.99927	1E836YB-BCO-LF	* CONT-LEAK	* IE-SLOCP	* NMY010CA-FMS-CC	*
131	66	6	9.07E-13	0.99935	RA-5V-1-2H	* SUR-003-L	* CSC0300A-PLG-LF	* IE-SLOCA	*
132	66	6	9.07E-13	0.99935	1E36YB-V-UUM	* SUR-003-L	* CSC0300A-PLG-LF	* IE-SLOCA	*
133	67	6	9.07E-13	0.99944	RA-5V-1-2H	* SUR-003-L	* CSC0300A-PLG-LF	* IE-SLOCA	*
134	67	6	9.07E-13	0.99944	1E836YB-B-UUM	* CONT-LEAK	* CSC0300A-PLG-LF	* IE-SLOCA	*
135	67	6	9.07E-13	0.99944	RA-5V-1-2H	* SUR-003-L	* CSC0300A-PLG-LF	* IE-SLOCA	*
136	67	6	9.07E-13	0.99944	1E836YB-B-UUM	* CONT-LEAK	* CSC0300A-PLG-LF	* IE-SLOCA	*
137	67	6	9.07E-13	0.99944	RA-5V-1-2H	* SUR-003-L	* CSC0300A-PLG-LF	* IE-SLOCA	*

SEQUENCE L16

TOP EVENT CPDSB2-L-SEQ28 CONTAINS 71 EVENTS IN 85 CUT SETS  
THE FREQUENCY OF TOP EVENT CPDSB2-L-SEQ28 IS 1.88E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB2-L-SEQ28

N	300
MEAN	8.98E-09
STD DEV	8.60E-08
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	2.24E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE 1.16

RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-021-R	85	8.50E-02	( 10.0)	1.88E-09	( 1.0)	0.00E+00 2.24E-08
RA-6-4H	48	5.00E-01	( 9.0)	1.59E-09	( 2.0)	
1EB236B-8CO-LF	24	7.20E-05	( 66.0)	7.73E-10	( 3.0)	0.00E+00 5.97E-09
1EB235A-8CO-LF	23	7.20E-05	( 66.0)	7.13E-10	( 4.0)	0.00E+00 5.89E-09
RA-NONE	11	1.00E+00	( 4.0)	2.89E-10	( 5.0)	
1E42Y8-V-UJM	3	1.00E-04	( 54.5)	1.59E-10	( 6.0)	0.00E+00 1.21E-09
RHR01AX-HTX-LFB	2	6.20E-03	( 11.5)	1.43E-10	( 7.0)	0.00E+00 4.79E-10
CSC0300A-PLG-LF	6	1.20E-03	( 28.5)	1.43E-10	( 8.0)	0.00E+00 9.24E-10
CSC0300B-PLG-LF	4	1.20E-03	( 28.5)	1.42E-10	( 9.0)	0.00E+00 9.24E-10
RHR01BX-HTX-LFB	1	6.20E-03	( 11.5)	1.42E-10	( 10.0)	0.00E+00 4.78E-10
1E41YA-V-UJM	2	1.00E-04	( 54.5)	1.13E-10	( 11.0)	0.00E+00 6.58E-10
SCSF06AA-DENER	2	1.00E+00	( 4.0)	6.91E-11	( 14.0)	
LCSC002A-P-UJM	2	3.00E-03	( 16.0)	6.91E-11	( 14.0)	0.00E+00 3.03E-10
RHR022AA-P-UJM	2	3.00E-03	( 16.0)	6.91E-11	( 14.0)	0.00E+00 3.03E-10
C00001P-P-UJM	2	3.00E-03	( 16.0)	6.91E-11	( 14.0)	0.00E+00 2.11E-10
RHR022AA-P-UJM	2	3.00E-03	( 16.0)	6.91E-11	( 14.0)	0.00E+00 2.11E-10
C00001F-PLG-LF	6	5.80E-04	( 37.5)	6.90E-11	( 17.0)	0.00E+00 4.15E-10
SCSF06BB-DENER	1	1.00E+00	( 4.0)	6.89E-11	( 19.5)	
C20001P-P-UJM	1	3.00E-03	( 16.0)	6.89E-11	( 19.5)	0.00E+00 2.10E-10
RHR028B-P-UJM	1	3.00E-03	( 16.0)	6.89E-11	( 19.5)	0.00E+00 3.01E-10
RHR028B-P-UJM	1	3.00E-03	( 16.0)	6.89E-11	( 19.5)	0.00E+00 2.10E-10
C20001F-PLG-LF	4	5.80E-04	( 37.5)	6.88E-11	( 22.0)	0.00E+00 4.15E-10
NWY01CA-FMS-CC	2	2.50E-03	( 22.5)	5.76E-11	( 24.0)	0.00E+00 3.20E-10
C00001P-PMS-CC	2	2.50E-03	( 22.5)	5.76E-11	( 24.0)	0.00E+00 3.20E-10
RHR01AA-800-CC	2	2.50E-03	( 22.5)	5.76E-11	( 24.0)	0.00E+00 3.20E-10
SEY03CB-FMS-CC	1	2.50E-03	( 22.5)	5.74E-11	( 27.0)	0.00E+00 3.20E-10
RHR01BB-800-CC	1	2.50E-03	( 22.5)	5.74E-11	( 27.0)	0.00E+00 3.20E-10
C20001P-PMS-CC	1	2.50E-03	( 22.5)	5.74E-11	( 27.0)	0.00E+00 3.20E-10
1EB235A-B-UJM	2	1.00E-04	( 54.5)	5.67E-11	( 29.5)	0.00E+00 3.29E-10
1EB236B-B-UJM	2	1.00E-04	( 54.5)	5.67E-11	( 29.5)	0.00E+00 3.29E-10
EE-CSC0300A-PLG	1	7.20E-04	( 36.0)	4.59E-11	( 31.0)	0.00E+00 2.86E-10
RHR022AA-PMS-LF	2	1.10E-03	( 31.5)	2.54E-11	( 32.5)	0.00E+00 1.64E-10
C00001P-PMS-LF	2	1.10E-03	( 31.5)	2.54E-11	( 32.5)	0.00E+00 1.64E-10
RHR028B-PMS-LF	1	1.10E-03	( 31.5)	2.52E-11	( 34.5)	0.00E+00 1.64E-10
C20001P-PMS-LF	1	1.10E-03	( 31.5)	2.52E-11	( 34.5)	0.00E+00 1.64E-10
NWY01AX-ACK-LFI	2	8.40E-04	( 34.5)	1.94E-11	( 36.0)	0.00E+00 9.73E-11
SEY03AX-ACK-LFI	1	8.40E-04	( 34.5)	1.93E-11	( 37.0)	0.00E+00 9.73E-11
NWY01CA-FMS-LF	2	5.40E-04	( 39.5)	1.24E-11	( 38.0)	0.00E+00 1.09E-10
SEY03CB-FMS-LF	1	5.40E-04	( 39.5)	1.24E-11	( 39.0)	0.00E+00 1.07E-10
CSCF060A-VCC-LF	2	5.00E-04	( 45.0)	1.15E-11	( 42.0)	0.00E+00 3.20E-11
RHR04AA-VCC-LF	2	5.00E-04	( 45.0)	1.15E-11	( 42.0)	0.00E+00 3.20E-11
RHR01AA-800-LF	2	5.00E-04	( 45.0)	1.15E-11	( 42.0)	0.00E+00 3.20E-11
NWY01CA-F-UJM	2	5.00E-04	( 45.0)	1.15E-11	( 42.0)	0.00E+00 4.04E-11
FL0A-RHR-R3	2	1.00E+00	( 4.0)	1.15E-11	( 47.0)	0.00E+00 1.43E-10
RHR04BB-VCC-LF	1	5.00E-04	( 45.0)	1.15E-11	( 47.5)	0.00E+00 3.20E-11

RHR018B-BOO-LF	1	5.00E-04 ( 45.0)	1.15E-11 ( 47.5)	0.00E+00	4.04E-11
FLOW-RHR-B3	1	1.00E+00 ( 4.0)	1.15E-11 ( 47.5)	0.00E+00	2.78E-11
ZDG1PK18-ROO-LFO	1	5.00E-04 ( 45.0)	1.15E-11 ( 47.5)	0.00E+00	1.40E-10
SEVY03CB-F-UUM	1	5.00E-04 ( 45.0)	1.15E-11 ( 47.5)	0.00E+00	3.20E-11
CSCF068B-VCC-LF	1	5.00E-04 ( 45.0)	1.15E-11 ( 47.5)	0.00E+00	5.83E-11
1EB36YB-BCO-LF	23	7.20E-05 ( 66.0)	9.82E-12 ( 51.0)	0.00E+00	4.49E-11
1EB33YX-BCO-LF	2	7.20E-05 ( 66.0)	6.61E-12 ( 52.5)	0.00E+00	4.49E-11
1EB1Y22X-BCO	2	7.20E-05 ( 66.0)	6.61E-12 ( 52.5)	0.00E+00	1.25E-11
RA-5V-1-2H	25	2.10E-03 ( 26.5)	3.69E-12 ( 54.0)	0.00E+00	1.25E-11
1EB36Y1X-BCO-LF	1	7.20E-05 ( 66.0)	3.30E-12 ( 55.0)	0.00E+00	2.25E-11
NOFLOW-RHR-A1	2	1.00E+00 ( 4.0)	2.54E-12 ( 56.5)	0.00E+00	7.10E-12
RHR301AX-STR	2	1.10E-04 ( 50.5)	2.54E-12 ( 56.5)	0.00E+00	7.10E-12
NOFLOW-RHR-B1	1	1.00E+00 ( 4.0)	2.52E-12 ( 58.5)	0.00E+00	7.10E-12
RHR301BX-STR	1	1.10E-04 ( 50.5)	2.52E-12 ( 58.5)	0.00E+00	1.25E-11
CCB00G1P-BCO-LF	2	8.40E-05 ( 59.5)	1.94E-12 ( 60.5)	0.00E+00	1.25E-11
1EB16211-BCO	2	8.40E-05 ( 59.5)	1.94E-12 ( 60.5)	0.00E+00	1.24E-11
CCB20G1P-BCO-LF	1	8.40E-05 ( 59.5)	1.93E-12 ( 62.5)	0.00E+00	1.24E-11
1EB16212-BCO	1	8.40E-05 ( 59.5)	1.93E-12 ( 62.5)	0.00E+00	1.12E-11
1EB211YX-BCO-LF	1	7.20E-05 ( 66.0)	1.65E-12 ( 64.5)	0.00E+00	1.12E-11
SEVB001X-BCO-LF	1	7.20E-05 ( 66.0)	1.65E-12 ( 64.5)	0.00E+00	1.12E-11
1EB36YB-B-UUM	2	1.00E-04 ( 54.5)	2.38E-13 ( 66.5)	0.00E+00	8.02E-13
1E36YB-V-UUM	2	1.00E-04 ( 54.5)	2.38E-13 ( 66.5)	0.00E+00	8.02E-13
OPFAIL-VENT-4H	2	2.10E-03 ( 26.5)	1.72E-13 ( 68.5)	0.00E+00	2.50E-13
1EB235XA-BCO-LF	2	7.20E-05 ( 66.0)	1.72E-13 ( 68.5)	0.00E+00	2.50E-13
CONT-LEAK	85	7.50E-01 ( 8.0)	-5.65E-09 ( 70.0)	0.00E+00	0.00E+00

SEQUENCE 116  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE	(RANK)	LOWER 5% UPPER 5%
1EB236B-8CO-LF	24	7.20E-05 ( 66.0)	1.07E-05 ( 1.0)	0.00E+00	2.59E-04
1EB235A-8CO-LF	23	7.20E-05 ( 66.0)	9.90E-06 ( 2.0)	0.00E+00	2.55E-04
1E42YB-V-UJM	3	1.00E-04 ( 54.5)	1.59E-06 ( 3.0)	0.00E+00	2.52E-05
1E41YA-V-UJM	2	1.00E-04 ( 54.5)	1.13E-06 ( 4.0)	0.00E+00	1.53E-05
1EB235A-8-UJM	2	1.00E-04 ( 54.5)	5.67E-07 ( 5.5)	0.00E+00	7.66E-06
1EB236B-8-UJM	2	1.00E-04 ( 54.5)	5.67E-07 ( 5.5)	0.00E+00	7.66E-06
1EB26YB-8CO-LF	23	7.20E-05 ( 66.0)	1.36E-07 ( 7.0)	0.00E+00	1.84E-06
CO0G01F-PLG-LF	6	5.80E-04 ( 37.5)	1.19E-07 ( 8.0)	0.00E+00	1.97E-06
CSC0300A-PLG-LF	6	1.20E-03 ( 28.5)	1.19E-07 ( 9.0)	0.00E+00	1.97E-06
CZ0G01F-PLG-LF	4	5.80E-04 ( 37.5)	1.19E-07 ( 10.0)	0.00E+00	1.97E-06
CSC0300B-PLG-LF	4	1.20E-03 ( 28.5)	1.19E-07 ( 11.0)	0.00E+00	1.97E-06
1EB1Y22A-8CO	2	7.20E-05 ( 66.0)	9.18E-08 ( 12.5)	0.00E+00	1.04E-06
1EB35Y2X-8CO-LF	2	7.20E-05 ( 66.0)	9.18E-08 ( 12.5)	0.00E+00	1.04E-06
EE-CSC0300A-PLG	1	7.20E-04 ( 36.0)	6.37E-08 ( 14.0)	0.00E+00	1.13E-06
1EB36Y1X-8CO-LF	1	7.20E-05 ( 66.0)	4.59E-08 ( 15.0)	0.00E+00	5.18E-07
1EB16211-8CO	2	8.40E-05 ( 59.5)	2.30E-08 ( 16.5)	0.00E+00	2.61E-07
CB0G01P-8CO-LF	2	8.40E-05 ( 59.5)	2.30E-08 ( 16.5)	0.00E+00	2.61E-07
RHB031AX-STR	2	1.10E-04 ( 50.5)	2.30E-08 ( 18.0)	0.00E+00	2.61E-07
CSC0606A-VCC-LF	2	5.00E-04 ( 45.0)	2.30E-08 ( 20.5)	0.00E+00	2.61E-07
HWY01CA-F-UJM	2	5.00E-04 ( 45.0)	2.30E-08 ( 20.5)	0.00E+00	2.61E-07
RHB01AA-8CO-LF	2	5.00E-04 ( 45.0)	2.30E-08 ( 20.5)	0.00E+00	2.61E-07
RHF48AA-V00-LF	2	5.00E-04 ( 45.0)	2.30E-08 ( 20.5)	0.00E+00	2.61E-07
HWY01CA-FMS-LF	2	5.40E-04 ( 39.5)	2.30E-08 ( 23.0)	0.00E+00	2.61E-07
HWY01AX-ACK-LFI	2	8.40E-04 ( 34.5)	2.30E-08 ( 24.0)	0.00E+00	2.60E-07
CO0G01P-FMS-LF	2	1.10E-03 ( 31.5)	2.30E-08 ( 25.5)	0.00E+00	2.60E-07
RHC02AA-P-UJM	2	1.10E-03 ( 31.5)	2.30E-08 ( 25.5)	0.00E+00	2.60E-07
RHB01AA-8CO-CC	2	2.50E-03 ( 22.5)	2.30E-08 ( 28.0)	0.00E+00	2.60E-07
HWY01CA-FMS-CC	2	2.50E-03 ( 22.5)	2.30E-08 ( 28.0)	0.00E+00	2.60E-07
CO0G01P-FMS-CC	2	2.50E-03 ( 24.5)	2.30E-08 ( 28.0)	0.00E+00	2.60E-07
RHC02AA-P-UJM	2	3.00E-03 ( 16.0)	2.30E-08 ( 31.5)	0.00E+00	2.60E-07
RHC02AA-P-UJM	2	3.00E-03 ( 16.0)	2.30E-08 ( 31.5)	0.00E+00	2.57E-07
CO0G01P-P-UJM	2	3.00E-03 ( 16.0)	2.30E-08 ( 31.5)	0.00E+00	2.57E-07
LCSC002A-P-UJM	2	3.00E-03 ( 16.0)	2.30E-08 ( 31.5)	0.00E+00	2.60E-07
1EB21YX-8CO-LF	1	7.20E-05 ( 66.0)	2.29E-08 ( 34.5)	0.00E+00	2.59E-07
SEV8001X-8CO-LF	1	7.20E-05 ( 66.0)	2.29E-08 ( 34.5)	0.00E+00	2.59E-07
CB0G01P-8CO-LF	1	8.40E-05 ( 59.5)	2.29E-08 ( 36.5)	0.00E+00	2.59E-07
1EB16212-8CO	1	8.40E-05 ( 59.5)	2.29E-08 ( 36.5)	0.00E+00	2.59E-07
RHB01BX-STR	1	1.10E-04 ( 50.5)	2.29E-08 ( 38.0)	0.00E+00	2.59E-07
RHF48BB-V00-LF	1	5.00E-04 ( 45.0)	2.29E-08 ( 41.0)	0.00E+00	2.59E-07
RHB01BB-8CO-LF	1	5.00E-04 ( 45.0)	2.29E-08 ( 41.0)	0.00E+00	2.59E-07
Z0G1PK7S-R00-LFO	1	5.00E-04 ( 45.0)	2.29E-08 ( 41.0)	0.00E+00	2.59E-07
SEVY03CB-F-UJM	1	5.00E-04 ( 45.0)	2.29E-08 ( 41.0)	0.00E+00	2.59E-07
CSC0606B-VCC-LF	1	5.00E-04 ( 45.0)	2.29E-08 ( 41.0)	0.00E+00	2.59E-07
SEVY03CB-FMS-LF	1	5.40E-04 ( 39.5)	2.29E-08 ( 44.0)	0.00E+00	2.59E-07
SEVY03AK-ACK-LFI	1	8.40E-04 ( 34.5)	2.29E-08 ( 45.0)	0.00E+00	2.58E-07



RRC028B-FMS-LF	1	1.10E-03 ( 31.5)	2.29E-08 ( 46.5)	0.00E+00	2.59E-07
C2D001P-FMS-LF	1	1.10E-03 ( 31.5)	2.29E-08 ( 46.5)	0.00E+00	2.59E-07
RHR01AX-HTX-LFB	2	6.20E-03 ( 11.5)	2.29E-08 ( 48.0)	0.00E+00	2.59E-07
RHR01BB-B00-CC	1	2.50E-03 ( 22.5)	2.29E-08 ( 50.0)	0.00E+00	2.59E-07
C2D001P-FMS-CC	1	2.50E-03 ( 22.5)	2.29E-08 ( 50.0)	0.00E+00	2.59E-07
SEVY03CB-FMS-CC	1	2.50E-03 ( 22.5)	2.29E-08 ( 50.0)	0.00E+00	2.59E-07
RRC028B-P-UUM	1	3.00E-03 ( 16.0)	2.29E-08 ( 53.0)	0.00E+00	2.58E-07
RRC028B-P-NDUUM	1	3.00E-03 ( 16.0)	2.29E-08 ( 53.0)	0.00E+00	2.55E-07
C2D001P-P-UUM	1	3.00E-03 ( 16.0)	2.29E-08 ( 53.0)	0.00E+00	2.55E-07
RHR01BX-HTX-LFB	1	6.20E-03 ( 11.5)	2.28E-08 ( 55.0)	0.00E+00	2.55E-07
SUR-021-R	85	8.50E-02 ( 10.0)	2.03E-08 ( 56.0)	0.00E+00	6.32E-08
1EB235XA-SCD-LF	2	7.20E-05 ( 66.0)	2.38E-09 ( 57.0)	0.00E+00	1.02E-08
1EB36YB-S-UUM	2	1.00E-04 ( 54.5)	2.38E-09 ( 58.5)	0.00E+00	1.02E-08
1E36YB-V-UUM	2	1.00E-04 ( 54.5)	2.38E-09 ( 58.5)	0.00E+00	1.02E-08
RA-5V-1-2H	25	2.10E-03 ( 26.5)	1.75E-09 ( 60.0)	0.00E+00	2.08E-08
RA-6-4H	48	5.00E-01 ( 9.0)	1.59E-09 ( 61.0)	0.00E+00	3.11E-10
OPFALL-VENT-AH	2	2.10E-03 ( 26.5)	8.15E-11 ( 62.0)	0.00E+00	0.00E+00
SCFF06AA-DENER	2	1.00E+00 ( 4.0)	0.00E+00 ( 66.0)	0.00E+00	0.00E+00
RA-NONE	11	1.00E+00 ( 4.0)	0.00E+00 ( 66.0)	0.00E+00	0.00E+00
NOFLOW-RHR-B1	1	1.00E+00 ( 4.0)	0.00E+00 ( 66.0)	0.00E+00	0.00E+00
NOFLOW-RHR-A1	2	1.00E+00 ( 4.0)	0.00E+00 ( 66.0)	0.00E+00	0.00E+00
FLOW-RHR-B3	1	1.00E+00 ( 4.0)	0.00E+00 ( 66.0)	0.00E+00	0.00E+00
FLOW-RHR-A3	2	1.00E+00 ( 4.0)	0.00E+00 ( 66.0)	0.00E+00	0.00E+00
SCSF0688-DENER	1	1.00E+00 ( 4.0)	0.00E+00 ( 66.0)	0.00E+00	0.00E+00
CONT-LEAK	85	7.50E-01 ( 8.0)	-1.88E-09 ( 70.0)	-2.24E-08	0.00E+00

SEQUENCE L16  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
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BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
SUR-021-R	85	8.50E-02 ( 10.0)	61.0	( 1.0)	NA	0.36
CONT-LEAK	85	7.50E-01 ( 8.0)	11.3	( 2.0)	NA	0.25
RHR301BX-STR	1	1.10E-04 ( 50.5)	6.1	( 3.5)	NA	1.00
RHR301AX-STR	2	1.10E-04 ( 50.5)	6.1	( 3.5)	NA	1.00
C0D001F-PLG-LF	6	5.80E-04 ( 37.5)	4.6	( 5.5)	NA	1.00
C2D001F-PLG-LF	4	5.80E-04 ( 37.5)	4.6	( 5.5)	NA	1.00
1E42YB-V-UUM	3	1.00E-04 ( 54.5)	4.4	( 9.5)	NA	1.04
1EB236B-B-UUM	2	1.00E-04 ( 54.5)	4.4	( 9.5)	NA	1.04
1EB36YB-B-UUM	2	1.00E-04 ( 54.5)	4.4	( 9.5)	NA	1.04
1E36YB-V-UUM	2	1.00E-04 ( 54.5)	4.4	( 9.5)	NA	1.04
1E41YA-V-UUM	2	1.00E-04 ( 54.5)	4.4	( 9.5)	NA	1.04
1EB235A-B-UUM	2	1.00E-04 ( 54.5)	4.4	( 9.5)	NA	1.04
Z0G1PK1B-ROO-LFC	1	5.00E-04 ( 45.0)	3.3	( 13.0)	NA	1.00
CCB20G1P-BCO-LF	1	8.40E-05 ( 59.5)	3.2	( 15.5)	NA	1.00
CCB00G1P-BCO-LF	2	8.40E-05 ( 59.5)	3.2	( 15.5)	NA	1.00
1EB16212-BCO	1	8.40E-05 ( 59.5)	3.2	( 15.5)	NA	1.00
1EB16211-BCO	2	8.40E-05 ( 59.5)	3.2	( 15.5)	NA	1.00
CSCD300B-PLG-LF	4	1.20E-03 ( 28.5)	3.1	( 18.5)	NA	1.02
CSCD300A-PLG-LF	6	1.20E-03 ( 28.5)	3.1	( 18.5)	NA	1.02
NWVY01AX-ACX-LF1	2	8.40E-04 ( 34.5)	3.0	( 20.5)	NA	0.95
SEVY03AX-ACX-LF1	1	8.40E-04 ( 34.5)	3.0	( 20.5)	NA	0.95
1EB36Y1X-BCO-LF	1	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
1EB35Y2X-BCO-LF	2	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
1EB236B-BCO-LF	24	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
1EB1Y22X-BCO	2	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
1EB235XA-BCO-LF	2	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
1EB235A-BCO-LF	23	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
1EB211YX-BCO-LF	1	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
1EB36YB-BCO-LF	23	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
SEVB001X-BCO-LF	1	7.20E-05 ( 66.0)	2.7	( 26.0)	NA	1.83
RHRC02BB-PMS-LF	1	1.10E-03 ( 31.5)	2.3	( 32.5)	NA	0.97
RHRC02AA-PMS-LF	2	1.10E-03 ( 31.5)	2.3	( 32.5)	NA	0.97
C2D001P-PMS-LF	1	1.10E-03 ( 31.5)	2.3	( 32.5)	NA	0.97
C0D001P-PMS-LF	2	1.10E-03 ( 31.5)	2.3	( 32.5)	NA	0.97
RHRB01BB-BOO-CC	1	2.50E-03 ( 22.5)	2.1	( 37.5)	NA	1.22
RHRB01AA-BOO-CC	2	2.50E-03 ( 22.5)	2.1	( 37.5)	NA	1.22
C2D001P-PMS-CC	1	2.50E-03 ( 22.5)	2.1	( 37.5)	NA	1.22
NWVY01CA-FMS-CC	2	2.50E-03 ( 22.5)	2.1	( 37.5)	NA	1.22
C0D001P-PMS-CC	2	2.50E-03 ( 22.5)	2.1	( 37.5)	NA	1.22
SEVY03CB-FMS-CC	1	2.50E-03 ( 22.5)	2.1	( 37.5)	NA	1.22
NWVY01CA-FMS-LF	2	5.40E-04 ( 39.5)	1.8	( 41.5)	NA	0.99
SEVY03CB-FMS-LF	1	5.40E-04 ( 39.5)	1.8	( 41.5)	NA	0.99
RHRC02BB-P-UUM	1	3.00E-03 ( 16.0)	1.7	( 44.0)	NA	1.14
RHRC02AA-P-UUM	2	3.00E-03 ( 16.0)	1.7	( 44.0)	NA	1.14
LCSC002A-P-UUM	2	3.00E-03 ( 16.0)	1.7	( 44.0)	NA	1.14

RA-5V-1-2H	25	2.10E-03	( 26.5)	1.4	( 46.5)	NA	1.00
OPFAIL-VENT-4H	2	2.10E-03	( 26.5)	1.4	( 46.5)	NA	1.00
NWVY01CA-F-UUM	2	5.00E-04	( 45.0)	0.8	( 48.5)	NA	1.00
SEVY03CB-F-UUM	1	5.00E-04	( 45.0)	0.8	( 48.5)	NA	1.00
RHRH01BX-HTX-LFB	1	6.20E-03	( 11.5)	0.0	( 56.0)		
RHRH01AX-HTX-LFB	2	6.20E-03	( 11.5)	0.0	( 56.0)		
RHRF48BB-V00-LF	1	5.00E-04	( 45.0)	0.0	( 56.0)		
RHRF48AA-V00-LF	2	5.00E-04	( 45.0)	0.0	( 56.0)		
RHRC02BB-P-NDUUM	1	3.00E-03	( 16.0)	0.0	( 56.0)		
RHRC02AA-P-NDUUM	2	3.00E-03	( 16.0)	0.0	( 56.0)		
RHRB01BB-B00-LF	1	5.00E-04	( 45.0)	0.0	( 56.0)		
RHRB01AA-B00-LF	2	5.00E-04	( 45.0)	0.0	( 56.0)		
C2DGD1P-P-UUM	1	3.00E-03	( 16.0)	0.0	( 56.0)		
C0DGD1P-P-UUM	2	3.00E-03	( 16.0)	0.0	( 56.0)		
EE-CSCD300A-PLG	1	7.20E-04	( 36.0)	0.0	( 56.0)		
CSCF068B-VCC-LF	1	5.00E-04	( 45.0)	0.0	( 56.0)		
CSCF068A-VCC-LF	2	5.00E-04	( 45.0)	0.0	( 56.0)		
SCSF06AA-DENER	2	1.00E+00	( 4.0)				
RA-NONE	11	1.00E+00	( 4.0)				
RA-6-4H	48	5.00E-01	( 9.0)				
NOFLOW-RHR-B1	1	1.00E+00	( 4.0)				
NOFLOW-RHR-A1	2	1.00E+00	( 4.0)				
FLOW-RHR-B3	1	1.00E+00	( 4.0)				
FLOW-RHR-A3	2	1.00E+00	( 4.0)				
SCSF068B-DENER	1	1.00E+00	( 4.0)				

SEQUENCE L16

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-L-SEQ2B WITH TOP EVENT FREQUENCY 1.88E-09

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	6	1.42E-10	0.07557	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
3					RHRH01BX-HTX-LFB	* SUR-021-R	+		
4	2	6	1.42E-10	0.15114	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
5					RHRH01AX-TX-LFB	* SUR-021-R	+		
6	4	6	7.65E-11	0.19177	1E41YA-V-UUM	* /CONT-LEAK	* CSCD300B-PLG-LF	* 1E-SLOCA	*
7					RA-NONE	* SUR-021-R	+		
8	3	6	7.65E-11	0.23240	1E42YB-V-UUM	* /CONT-LEAK	* CSCD300A-PLG-LF	* 1E-SLOCA	*
9					RA-NONE	* SUR-021-R	+		
10	7	7	6.89E-11	0.26897	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
11					RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-021-R	+	
12	6	7	6.89E-11	0.30554	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
13					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-021-R	+	
14	10	6	6.89E-11	0.34210	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
15					RHRC02BB-P-NDUUM	* SUR-021-R	+		
16	8	6	6.89E-11	0.37867	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
17					RHRC02AA-P-NDUUM	* SUR-021-R	+		
18	11	6	6.89E-11	0.41524	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* LCSC002A-P-UUM	*
19					RA-6-4H	* SUR-021-R	+		
20	9	6	6.89E-11	0.45180	1EB235A-BCO-LF	* C2DG01P-P-UUM	* /CONT-LEAK	* 1E-SLOCA	*
21					RA-6-4H	* SUR-021-R	+		
22	5	6	6.89E-11	0.48837	1EB236B-BCO-LF	* C0DG01P-P-UUM	* /CONT-LEAK	* 1E-SLOCA	*
23					RA-6-4H	* SUR-021-R	+		
24	15	6	5.74E-11	0.51884	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* NWVY01CA-FMS-CC	*
25					RA-6-4H	* SUR-021-R	+		
26	14	6	5.74E-11	0.54931	1EB236B-BCO-LF	* C0DG01P-PMS-CC	* /CONT-LEAK	* 1E-SLOCA	*
27					RA-6-4H	* SUR-021-R	+		
28	13	6	5.74E-11	0.57979	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
29					RHRB01AA-BOO-CC	* SUR-021-R	+		
30	12	6	5.74E-11	0.61026	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
31					SEVY03CB-FMS-CC	* SUR-021-R	+		
32	17	6	5.74E-11	0.64073	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-SLOCA	* RA-6-4H	*
33					RHRB01BB-BOO-CC	* SUR-021-R	+		
34	16	6	5.74E-11	0.67120	1EB235A-BCO-LF	* C2DG01P-PMS-CC	* /CONT-LEAK	* 1E-SLOCA	*
35					RA-6-4H	* SUR-021-R	+		
36	18	6	4.59E-11	0.69558	1E42YB-V-UUM	* /CONT-LEAK	* EE-CSCD300A-PLG	* 1E-SLOCA	*
37					RA-NONE	* SUR-021-R	+		
38	20	6	3.83E-11	0.71590	1EB235A-B-UUM	* /CONT-LEAK	* CSCD300B-PLG-LF	* 1E-SLOCA	*
39					RA-6-4H	* SUR-021-R	+		
40	19	6	3.83E-11	0.73621	1EB236B-B-UUM	* /CONT-LEAK	* CSCD300A-PLG-LF	* 1E-SLOCA	*
41					RA-6-4H	* SUR-021-R	+		
42	22	6	3.70E-11	0.75585	1E41YA-V-UUM	* C2DG01F-PLG-LF	* /CONT-LEAK	* 1E-SLOCA	*
43					RA-NONE	* SUR-021-R	+		
44	21	6	3.70E-11	0.77549	1E42YB-V-UUM	* C0DG01F-PLG-LF	* /CONT-LEAK	* 1E-SLOCA	*
45					RA-NONE	* SUR-021-R	+		

46	24	6	2.75E-11	0.79011	1EB236B-BCO-LF	* /CONT-LEAK	* CSC0300A-PLG-LF	* IE-SLOCA	*
47					RA-6-4H	* SUR-021-R	+		
48	23	6	2.75E-11	0.80474	1EB235A-BCO-LF	* /CONT-LEAK	- CSC0300B-PLG-LF	* IE-SLOCA	*
49					RA-6-4H	* SUR-021-R	+		
50	28	6	2.52E-11	0.81815	1EB236B-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
51					RHRC02AA-PMS-LF	* SUR-021-R	+		
52	27	6	2.52E-11	0.83156	1EB235A-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
53					RHRC02BB-PMS-LF	* SUR-021-R	+		
54	26	6	2.52E-11	0.84496	1EB236B-BCO-LF	* C0D001P-PMS-LF	* /CONT-LEAK	* IE-SLOCA	*
55					RA-6-4H	* SUR-021-R	+		
56	25	6	2.52E-11	0.85837	1EB235A-BCO-LF	* C2D001P-PMS-LF	* /CONT-LEAK	* IE-SLOCA	*
57					RA-6-4H	* SUR-021-R	+		
58	30	6	1.93E-11	0.86861	1EB236B-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* NWVY01AX-ACK-LF1	*
59					RA-6-4H	* SUR-021-R	+		
60	29	6	1.93E-11	0.87885	1EB235A-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
61					SEVY03AX-ACK-LF1	* SUR-021-R	+		
62	31	6	1.85E-11	0.88867	1EB235A-B-UUM	* C2D001F-PLG-LF	* /CONT-LEAK	* IE-SLOCA	*
63					RA-6-4H	* SUR-021-R	+		
64	32	6	1.85E-11	0.89849	1EB236B-B-UUM	* C0D001F-PLG-LF	* /CONT-LEAK	* IE-SLOCA	*
65					RA-6-4H	* SUR-021-R	+		
66	34	6	1.33E-11	0.90556	1EB236B-BCO-LF	* C0D001F-PLG-LF	* /CONT-LEAK	* IE-SLOCA	*
67					RA-6-4H	* SUR-021-R	+		
68	33	6	1.33E-11	0.91263	1EB235A-BCO-LF	* C2D001F-PLG-LF	* /CONT-LEAK	* IE-SLOCA	*
69					RA-6-4H	* SUR-021-R	+		
70	36	6	1.24E-11	0.91921	1EB236B-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* NWVY01CA-FMS-LF	*
71					RA-6-4H	* SUR-021-R	+		
72	35	6	1.24E-11	0.92579	1EB235A-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
73					SEVY03CB-FMS-LF	* SUR-021-R	+		
74	45	6	1.15E-11	0.93188	1EB236B-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
75					RHRB01AA-B00-LF	* SUR-021-R	+		
76	44	6	1.15E-11	0.93798	1EB235A-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
77					SEVY03CB-F-UUM	* SUR-021-R	+		
78	43	6	1.15E-11	0.94407	1EB235A-BCO-LF	* /CONT-LEAK	* CSCF068B-VCC-LF	* IE-SLOCA	*
79					RA-6-4H	* SUR-021-R	+		
80	42	6	1.15E-11	0.95017	1EB236B-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* NWVY01CA-F-UUM	*
81					RA-6-4H	* SUR-021-R	+		
82	41	6	1.15E-11	0.95626	1EB235A-BCO-LF	* 2D01PK1B-R00-LFO	* /CONT-LEAK	* IE-SLOCA	*
83					RA-6-4H	* SUR-021-R	+		
84	40	7	1.15E-11	0.96236	1EB236B-BCO-LF	* /CONT-LEAK	* FLOW-RHR-A3	* IE-SLOCA	*
85					RA-6-4H	* RHRF48AA-V00-LF	* SUR-021-R	+	
86	39	7	1.15E-11	0.96845	1EB235A-BCO-LF	* /CONT-LEAK	* FLOW-RHR-B3	* IE-SLOCA	*
87					RA-6-4H	* RHRF48BB-V00-LF	* SUR-021-R	+	
88	38	6	1.15E-11	0.97455	1EB236B-BCO-LF	* /CONT-LEAK	* CSCF068A-VCC-LF	* IE-SLOCA	*
89					RA-6-4H	* SUR-021-R	+		
90	37	6	1.15E-11	0.98064	1EB235A-BCO-LF	* /CONT-LEAK	* IE-SLOCA	* RA-6-4H	*
91					RHRB01BB-B00-LF	* SUR-021-R	+		
92	50	6	3.30E-12	0.98240	1EB235A-BCO-LF	* 1EB36Y1X-BCO-LF	* /CONT-LEAK	* IE-SLOCA	*
93					RA-NONE	* SUR-021-R	+		
94	49	6	3.30E-12	0.98415	1EB1Y22X-BCO	* 1EB236B-ECO-LF	* /CONT-LEAK	* IE-SLOCA	*
95					RA-NONE	* SUR-021-R	+		
96	48	6	3.30E-12	0.98591	1EB236B-BCO-LF	* 1EB35Y2X-ECO-LF	* /CONT-LEAK	* IE-SLOCA	*
97					RA-NONE	* SUR-021-R	+		

98	47	6	3.30E-12	0.98766	1E81Y2X-BCC	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA
99					RA-NONE	SUR-021-R		
100	46	6	3.30E-12	0.98942	1E83Y2X-BCC-LF	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA
101					RA-NONE	SUR-021-R		
102	52	7	2.52E-12	0.99076	1E8235A-BCC-LF	/CONT-LEAK	1E-SLOCA	NOFLOW-RHR-B1
103					RA-6-4H	RHR301BX-STR	SUR-021-R	
104	51	7	2.52E-12	0.99210	1E8236B-BCC-LF	/CONT-LEAK	1E-SLOCA	NOFLOW-RHR-A1
105					RA-5-4H	RHR301AX-STR	SUR-021-R	
106	56	6	1.93E-12	0.99312	1E816212-BCC	1E8235A-BCC-LF	/CONT-LEAK	1E-SLOCA
107					RA-6-4H	SUR-021-R		
108	55	6	1.93E-12	0.99415	1E8235A-BCC-LF	CC8261P-BCC-LF	/CONT-LEAK	1E-SLOCA
109					RA-6-4H	SUR-021-R		
110	54	6	1.93E-12	0.99517	1E8236B-BCC-LF	CC8001P-BCC-LF	/CONT-LEAK	1E-SLOCA
111					RA-6-4H	SUR-021-R		
112	53	6	1.93E-12	0.99619	1E816211-BCC	1E8236B-BCC-LF	/CONT-LEAK	1E-SLOCA
113					RA-6-4H	SUR-021-R		
114	58	6	1.65E-12	0.99707	1E8235A-BCC-LF	/CONT-LEAK	1E-SLOCA	RA-6-4H
115					SEV8007X-BCC-LF	SUR-021-R		
116	57	6	1.65E-12	0.99795	1E8211YK-BCC-LF	1E8236B-BCC-LF	/CONT-LEAK	1E-SLOCA
117					RA-6-4H	SUR-021-R		
118	59	6	5.96E-13	0.99827	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA	RA-5V-1-2H
119					RHR01AX-RTX-LFS	SUR-021-R		
120	61	6	2.89E-13	0.99842	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA	LC5002A-P-UUM
121					RA-5V-1-2H	SUR-021-R		
122	63	6	2.89E-13	0.99857	1E830YB-BCC-LF	/CONT-LEAK	1E-SLOCA	RA-5V-1-2H
123					RHR02AA-P-NOLUM	SUR-021-R		
124	62	7	2.89E-13	0.99873	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA	RA-5V-1-2H
125					RHR02AA-P-UUM	SCS706AA-DENER	SUR-021-R	
126	60	6	2.89E-13	0.99888	1E836YB-BCC-LF	CC0001P-P-UUM	/CONT-LEAK	1E-SLOCA
127					RA-5V-1-2H	SUR-021-R		
128	66	6	2.41E-13	0.99901	1E836YB-BCC-LF	CC0001P-FMS-CC	/CONT-LEAK	1E-SLOCA
129					RA-5V-1-2H	SUR-021-R		
130	65	6	2.41E-13	0.99914	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA	NWY01CA-FMS-CC
131					RA-5V-1-2H	SUR-021-R		
132	64	6	2.41E-13	0.99926	1E830YB-BCC-LF	/CONT-LEAK	1E-SLOCA	RA-5V-1-2H
133					RHR01AA-BCC-CC	SUR-021-R		
134	58	6	1.61E-13	0.99935	1E836YB-B-UUM	/CONT-LEAK	CSC0300A-PLG-LF	1E-SLOCA
135					RA-5V-1-2H	SUR-021-R		
136	67	6	1.61E-13	0.99944	1E836YB-V-UUM	/CONT-LEAK	CSC0300A-PLG-LF	1E-SLOCA
137					RA-5V-1-2H	SUR-021-R		
138	70	6	1.16E-13	0.99950	1E836YB-BCC-LF	/CONT-LEAK	CSC0300A-PLG-LF	1E-SLOCA
139					RA-5V-1-2H	SUR-021-R		
140	69	6	1.16E-13	0.99956	1E8235MA-BCC-LF	/CONT-LEAK	CSC0300B-PLG-LF	1E-SLOCA
141					OFFAIL-VENT-4H	SUR-021-R		
142	71	6	1.06E-13	0.99961	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA	RA-5V-1-2H
143					RHR02AA-FMS-LF	SUR-021-R		
144	72	6	1.06E-13	0.99967	1E836YB-BCC-LF	CC0001P-FMS-LF	/CONT-LEAK	1E-SLOCA
145					RA-5V-1-2H	SUR-021-R		
146	73	6	8.10E-14	0.99971	1E836YB-BCC-LF	/CONT-LEAK	1E-SLOCA	NWY01AX-ACK-LF1
147					RA-5V-1-2H	SUR-021-R		

SEQUENCE L18

TOP EVENT POSA1-L-SEQ2A    CONTAINS    8 EVENTS IN    2 CUT SETS  
THE FREQUENCY OF TOP EVENT POSA1-L-SEQ2A    IS    4.44E-13

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT POSA1-L-SFQ2A

N	300
MEAN	1.70E-12
STD DEV	2.45E-11
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.03E-12

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE L18  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS.)  
 -----

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
1E411A-V-UBM	2	1.00E-04 ( 7.0)	4.44E-13 ( 3.0)	0.00E+00	1.03E-12
EE-WDP-PSM-BC-R	2	3.30E-01 ( 2.0)	4.44E-13 ( 3.0)		
COMT-LEAK	2	7.50E-01 ( 1.0)	4.44E-13 ( 3.0)	0.00E+00	1.03E-12
SUR-002-L	2	1.60E-01 ( 3.0)	4.44E-13 ( 3.0)	0.00E+00	1.03E-12
RA-1-1-15R	2	2.10E-03 ( 4.0)	4.44E-13 ( 3.0)	0.00E+00	1.03E-12
CSCD3008-PLG-LF	1	1.20E-03 ( 5.0)	2.99E-13 ( 6.0)	0.00E+00	6.71E-13
C2PG01F-PLG-LF	1	5.80E-04 ( 6.0)	1.45E-13 ( 7.0)	0.00E+00	3.57E-13



SEQUENCE L18  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK INCREASE	(RANK)	LOWER 5%	UPPER 5%
1F41YA-V-UUM	2	1.00E-04	( 7.0)	4.44E-09	( 1.0)	0.00E+00	1.07E-08
C20G01F-PLG-LF	1	5.80E-04	( 6.0)	2.49E-10	( 2.0)	0.00E+00	1.17E-09
CSCD300B-PLG-LF	1	1.20E-03	( 5.0)	2.49E-10	( 3.0)	0.00E+00	.17E-09
RA-1-1-15H	2	2.10E-03	( 4.0)	2.11E-10	( 4.0)	0.00E+00	6.71E-10
SUR-002-L	2	1.60E-01	( 3.0)	2.33E-12	( 5.0)	0.00E+00	5.74E-12
EE-MOP-PSM-BC-R	2	3.30E-01	( 2.0)	9.02E-13	( 6.0)		
CONT-LEAK	2	7.50E-01	( 1.0)	1.48E-13	( 7.0)	0.00E+00	0.00E+00

SEQUENCE L18  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
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BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y <sub>.05</sub> /TE <sub>.05</sub> *	Y <sub>.95</sub> /TE <sub>.95</sub> *
SUR-002-L	2	1.60E-01	( 3.0)	65.5	( 1.0)	NA	1.35
CONT-LEAK	2	7.50E-01	( 1.0)	6.7	( 2.0)	NA	0.75
1E41YA-V-UJM	2	1.00E-04	( 7.0)	3.9	( 3.0)	NA	1.04
C2D6D1F-PLG-LF	1	5.80E-04	( 6.0)	2.2	( 4.0)	NA	1.17
C5C300B-PLG-LF	1	1.20E-03	( 5.0)	2.0	( 5.0)	NA	1.68
RA-1-1-15H	2	2.10E-03	( 4.0)	0.8	( 6.0)	NA	1.78
EE-MDP-PSW-BC-R	2	3.30E-01	( 2.0)				

SEQUENCE L1B

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT POSA1-L-SEQ2A WITH TOP EVENT FREQUENCY 4.44E-13

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	2.99E-13	0.67416	1E41YA-V-UJM	* CONT-LEAK	* CSCD300B-PLG-L'	* EE-MDP-PSW-BC-R *
3					1E-SLOCA	* RA-1-1-15H	* SUR-002-L	* 4
4	2	7	1.45E-13	1.00000	1E41YA-V-UJM	* C20001F-PLG-LF	* CONT-LEAK	* EE-MDP-PSW-BC-R *
5					1E-SLOCA	* RA-1-1-15H	* SUR-002-L	*

TEMAC RUN TIME IN CPU SECONDS 15.23

SEQUENCE L20

TOP EVENT P0SA2-L-SEQ2A CONTAINS 8 EVENTS IN 2 CUT SETS

THE FREQUENCY OF TOP EVENT P0SA2-L-SEQ2A IS 8.60E-14

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT P0SA2-L-SEQ2A

N	300
MEAN	7.18E-13
STD DEV	9.61E-12
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	5.09E-13

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD \* EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD \* (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE L20  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
EE-MDP-PSW-BC-R	2	3.30E-01 ( 2.0)	8.60E-14 ( 2.5)		
1E41YA-V-UUM	2	1.00E-04 ( 7.0)	8.60E-14 ( 2.5)	0.00E+00	5.09E-13
SUR-024-R	2	9.30E-02 ( 3.0)	8.60E-14 ( 2.5)	0.00E+00	5.09E-13
RA-1-1-15H	2	2.10E-03 ( 4.0)	8.60E-14 ( 2.5)	0.00E+00	5.09E-13
CSCD3008-PLG-LF	1	1.20E-03 ( 5.0)	5.80E-14 ( 5.0)	0.00E+00	3.44E-13
C2DGD1F-PLG-LF	1	5.80E-04 ( 6.0)	2.80E-14 ( 6.0)	0.00E+00	1.45E-13
CONT-LEAK	2	7.50E-01 ( 1.0)	2.58E-13 ( 7.0)	0.00E+00	0.00E+00

SEQUENCE L20  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%
1E41YA-V-LUM	2	1.00E-04 ( 7.0)	8.60E-10 ( 1.0)	0.00E+00	8.67E-09
C2D001F-PLG-LF	1	5.80E-04 ( 6.0)	4.83E-11 ( 2.0)	0.00E+00	5.04E-10
C5C0300B-PLG-LF	1	1.20E-03 ( 5.0)	4.83E-11 ( 3.0)	0.00E+00	5.04E-10
RA-1-1-15H	2	2.10E-03 ( 4.0)	4.09E-11 ( 4.0)	0.00E+00	4.47E-10
SUR-024-R	2	9.30E-02 ( 3.0)	8.39E-13 ( 5.0)	0.00E+00	9.70E-13
EE-MOP-PSM-BC-R	2	3.30E-01 ( 2.0)	1.75E-13 ( 6.0)		
CONT-LEAK	2	7.50E-01 ( 1.0)	-8.60E-14 ( 7.0)	-5.09E-13	0.00E+00

SEQUENCE L20  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
 -----

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
CONT-LEAK	2	7.50E-01 ( 1.0)	69.3	( 1.0)	NA	0.25
SUR-024-R	2	9.30E-02 ( 3.0)	17.7	( 2.0)	NA	0.34
CSCD300B-PLG-LF	1	1.20E-03 ( 5.0)	1.8	( 3.0)	NA	1.96
C20G01F-PLG-LF	1	5.80E-04 ( 6.0)	1.5	( 4.0)	NA	1.47
1E41YA-V-UUM	2	1.00E-04 ( 7.0)	0.7	( 5.0)	NA	1.27
RA-1-1-15H	2	2.10E-03 ( 4.0)	0.0	( 6.0)		
EE-MDP-PSW-BC-R	2	3.30E-01 ( 2.0)				

SEQUENCE L20

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT P05A2-L-SEGZA WITH TOP EVENT FREQUENCY 8.60E-14

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	5.80E-14	0.57416	1E41YA-V-UJM	*/CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDP-PSW-BC-R
3					1E-SLOCA	* RA-1-1-TSH	* SUR-024-R	*
4	2	7	2.80E-14	1.00000	1E41YA-V-UJM	* C2D001F-PLG-LF	* /CONT-LEAK	* EE-MDP-PSW-BC-R
5					1E-SLOCA	* RA-1-1-TSH	* SUR-024-R	*

TEMAC RUN TIME IN CPU SECONDS 15.4



SEQUENCE T16

TOP EVENT PDSC-T-SEQ2C CONTAINS 105 EVENTS IN 456 CUT SETS  
THE FREQUENCY OF TOP EVENT PDSC-T-SEQ2C IS 4.81E-07

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT PDSC-T-SEQ2C

N	300
MEAN	4.36E-07
STC DEV	1.01E-06
LOWER 5%	1.55E-08
LOWER 25%	5.30E-08
MEDIAN	1.42E-07
UPPER 25%	4.00E-07
UPPER 5%	1.75E-06

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD \* EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD \* RISK REDUCTION  
= PD \* (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE 116  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK			LOWER 5%	UPPER 5%
			REDUCTION (RANK)	LOWER 5%	UPPER 5%		
SUR-005-V	394	2.10E-03 ( 59.0)	3.95E-07 ( 1.0)	4.36E-09	1.60E-06		
1E336YB-800-LF	115	7.20E-05 ( 93.5)	9.58E-08 ( 2.0)	7.37E-10	3.24E-07		
RHR01AX-HTX-LFB	14	6.20E-03 ( 23.5)	9.39E-08 ( 3.0)	6.10E-10	3.64E-07		
SUR-006-V	62	8.70E-03 ( 12.0)	8.59E-08 ( 4.0)	9.24E-10	3.15E-07		
RHR01BX-HTX-LFB	12	6.20E-03 ( 23.5)	6.50E-08 ( 5.0)	2.21E-10	2.11E-07		
SCSF06AA-DENER	11	1.00E+00 ( 3.5)	4.54E-08 ( 7.0)	2.24E-10	1.44E-07		
LESC002A-P-ULM	11	3.00E-03 ( 31.5)	4.54E-08 ( 7.0)	2.24E-10	1.44E-07		
RHR02AA-P-ULM	11	3.00E-03 ( 31.5)	3.15E-08 ( 9.5)	8.48E-11	1.06E-07		
SCSF06BB-DENER	6	1.00E+00 ( 5.1)	2.09E-08 ( 11.0)	1.52E-10	7.21E-08		
RHR02BB-P-ULM	8	3.00E-03 ( 31.5)	1.81E-08 ( 12.0)	1.32E-10	5.20E-08		
CSC0300A-PLG-LF	25	1.20E-03 ( 63.5)	1.67E-08 ( 13.5)	2.02E-10	6.29E-08		
CSC0300F-PLG-LF	22	1.20E-03 ( 63.5)	1.67E-08 ( 13.5)	2.02E-10	6.29E-08		
RHR02AA-PMS-LF	11	1.10E-03 ( 66.5)	1.19E-08 ( 15.0)	7.90E-12	4.79E-08		
C00G01F-PMS-LF	33	3.20E-03 ( 27.0)	1.15E-08 ( 16.5)	6.96E-11	5.28E-08		
RA-8-27H	8	1.10E-03 ( 66.5)	1.15E-08 ( 16.5)	6.96E-11	5.28E-08		
C20G01F-PMS-LF	8	1.10E-03 ( 66.5)	8.81E-09 ( 18.0)	6.11E-11	2.88E-08		
RHR02BB-PMS-LF	17	5.80E-04 ( 74.5)	8.57E-09 ( 19.0)	8.33E-12	2.62E-08		
C00G01F-PLG-LF	2	2.50E-03 ( 50.0)	8.25E-09 ( 20.5)	8.33E-12	2.62E-08		
FLOW-RHR-A3	61	1.00E+00 ( 5.5)	8.25E-09 ( 20.5)	2.44E-11	2.35E-08		
LPCI-PMS-CM	2	2.50E-03 ( 50.0)	7.57E-09 ( 24.0)	6.38E-11	2.65E-08		
LPCI-BETA	2	1.10E-01 ( 11.0)	7.57E-09 ( 24.0)	6.38E-11	2.65E-08		
EE-CSC0300B-PLG	3	7.20E-04 ( 72.0)	7.57E-09 ( 24.0)	6.38E-11	2.65E-08		
CSCF06BA-VCC-LF	10	5.00E-04 ( 79.5)	7.57E-09 ( 24.0)	6.38E-11	2.65E-08		
RHRF48AA-V00-LF	10	5.00E-04 ( 79.5)	7.57E-09 ( 24.0)	6.38E-11	2.65E-08		
RHR01AA-800-LF	10	5.00E-04 ( 79.5)	7.57E-09 ( 24.0)	6.38E-11	2.65E-08		
EE-C20G01F-PLG	1	7.20E-04 ( 72.0)	7.54E-09 ( 26.0)	2.30E-11	2.20E-08		
C20G01F-PLG-LF	15	5.80E-04 ( 74.5)	6.11E-09 ( 27.0)	2.23E-11	2.00E-08		
1E8235XA-800-LF	18	7.20E-05 ( 93.5)	5.97E-09 ( 28.0)	1.55E-11	2.08E-08		
FLOW-RHR-83	51	1.00E+00 ( 5.5)	5.85E-09 ( 29.0)	1.55E-11	2.08E-08		
RA-1-1-27H	294	2.10E-03 ( 59.0)	5.42E-09 ( 30.0)	1.37E-11	1.87E-08		
CSCF06BB-VCC-LF	7	5.00E-04 ( 78.5)	5.24E-09 ( 32.0)	1.37E-11	1.87E-08		
RHRF48BB-V00-LF	7	5.00E-04 ( 78.5)	5.24E-09 ( 32.0)	1.37E-11	1.87E-08		
RHR01BB-800-LF	7	5.00E-04 ( 78.5)	5.24E-09 ( 32.0)	2.31E-11	2.33E-08		
LPCI-MOV-BETA	4	3.00E-02 ( 13.0)	4.50E-09 ( 34.0)	5.35E-12	1.69E-08		
C00G01P-P-ULM	5	3.00E-03 ( 31.5)	2.31E-09 ( 35.5)	1.82E-17	6.65E-09		
RHR02AA-P-ULM	5	3.00E-03 ( 31.5)	2.31E-09 ( 35.5)	1.82E-12	6.65E-09		
1E336YB-8-ULM	18	1.60E-04 ( 84.5)	2.29E-09 ( 37.0)	1.49E-11	8.68E-09		
RA-2-11-27H	74	1.60E-03 ( 62.0)	2.28E-09 ( 38.0)	2.46E-12	6.29E-09		
1E336YB-V-ULM	17	1.00E-04 ( 84.5)	2.25E-09 ( 39.0)	1.47E-11	8.66E-09		
LPCI-MOV-CM2	2	2.50E-03 ( 50.0)	2.25E-09 ( 40.5)	2.68E-12	8.46E-09		
LPCI-MOV-CM1	2	2.50E-03 ( 50.0)	2.25E-09 ( 40.5)	2.68E-12	8.46E-09		
C00G01P-PMS-CC	5	2.50E-03 ( 50.0)	1.93E-09 ( 43.0)	1.31E-12	6.43E-09		
RHR01AA-800-CC	5	2.50E-03 ( 50.0)	1.93E-09 ( 43.0)	1.31E-12	6.43E-09		
NWY01CA-FMS-CC	5	2.50E-03 ( 50.0)	1.69E-09 ( 45.0)	1.54E-12	4.79E-09		
TDRFP-1-0E-27H	216	2.60E-03 ( 43.0)	1.69E-09 ( 45.0)	1.54E-12	4.79E-09		

RHR301AX-STR	6	1.10E-04 ( 82.5)	1.67E-09 ( 46.5)	1.19E-11	6.56E-09
NOFLOW-RHR-A1	6	1.00E+00 ( 5.5)	1.67E-09 ( 46.5)		
LAK9ARCA-ROO-LFO	45	2.00E-02 ( 18.0)	1.29E-09 ( 48.5)	3.90E-12	3.53E-09
LAK10RCA-ROO-LFO	45	2.00E-02 ( 18.0)	1.29E-09 ( 48.5)	3.90E-12	3.53E-09
LAK18ARA-ROO-LFO	44	2.00E-02 ( 18.0)	1.25E-09 ( 50.0)	3.49E-12	3.41E-09
NOFLOW-RHR-B1	1	1.00E+00 ( 5.5)	1.15E-09 ( 51.5)		
RHR3018X-STR	1	1.10E-04 ( 82.5)	1.15E-09 ( 51.5)	3.79E-12	3.72E-09
LAK93ARC-ROO-LFO	41	2.00E-02 ( 18.0)	9.93E-10 ( 53.0)	1.27E-12	2.97E-09
LAK9BRCB-ROO-LFO	40	2.00E-02 ( 18.0)	7.76E-10 ( 54.5)	1.48E-12	1.93E-09
LAK18BRB-ROO-LFO	40	2.00E-02 ( 18.0)	7.76E-10 ( 54.5)	1.48E-12	1.93E-09
1EB235YA-BCO-LF	10	7.20E-05 ( 93.5)	7.58E-10 ( 56.0)	2.26E-12	2.95E-09
LAK93BRC-ROO-LFO	36	2.00E-02 ( 18.0)	6.09E-10 ( 57.0)	5.41E-13	1.69E-09
NWVY01AX-ACX-LFI	4	8.40E-04 ( 69.5)	5.71E-10 ( 58.0)	4.58E-13	1.29E-09
LAK14ARC-RCO-LFO	13	2.00E-02 ( 18.0)	5.54E-10 ( 60.0)	4.37E-13	1.44E-09
NOFLOW-SPC-A5X	13	1.00E+00 ( 5.5)	5.54E-10 ( 60.0)		
NOFLOW-CSS-A7A	13	1.00E+00 ( 5.5)	5.54E-10 ( 60.0)		
NOFLOW-SPC-B5X	10	1.00E+00 ( 5.5)	4.30E-10 ( 63.0)		
NOFLOW-CSS-B7A	10	1.00E+00 ( 5.5)	4.30E-10 ( 63.0)		
LAK14BRC-RCO-LFO	10	2.00E-02 ( 18.0)	4.30E-10 ( 63.0)	2.55E-13	1.34E-09
1EB16211-BCO	2	8.40E-05 ( 87.5)	1.14E-10 ( 65.0)	2.86E-14	8.50E-10
LAK3ARCA-RCO-LFO	9	3.40E-03 ( 25.5)	1.10E-10 ( 66.0)	2.01E-13	2.49E-10
LAK3BRCB-RCO-LFO	5	3.40E-03 ( 25.5)	7.67E-11 ( 67.0)	6.02E-14	1.59E-10
RHR003B-P-UUM	5	3.00E-03 ( 31.5)	6.76E-11 ( 68.0)	4.48E-14	1.81E-10
RA-7-1-27H	1	2.10E-03 ( 59.0)	6.60E-11 ( 69.0)	4.46E-14	1.81E-10
1EB236B-BCO-LF	2	7.20E-05 ( 93.5)	5.71E-11 ( 70.0)	1.43E-14	4.26E-10
1EB16212-BCO	1	8.40E-05 ( 87.5)	5.70E-11 ( 72.0)	1.43E-14	4.25E-10
CCB00G1P-BCO-LF	1	8.40E-05 ( 87.5)	5.70E-11 ( 72.0)	1.43E-14	4.25E-10
1EB235A-BCO-LF	1	7.20E-05 ( 93.5)	5.70E-11 ( 72.0)	1.43E-14	4.25E-10
1EB211YX-BCO-LF	1	7.20E-05 ( 93.5)	4.89E-11 ( 74.5)	1.42E-14	4.09E-10
1EB1Y22X-BCO	1	7.20E-05 ( 93.5)	4.89E-11 ( 74.5)	1.42E-14	4.09E-10
EE-CSCD300A-PLG	2	7.20E-04 ( 72.0)	3.69E-11 ( 76.0)	8.86E-15	1.28E-10
LAK9ACP3-LFOO	5	2.90E-03 ( 39.0)	5.91E-12 ( 78.0)	1.72E-15	1.64E-11
LAK18ACP1-LFOO	5	2.90E-03 ( 39.0)	5.91E-12 ( 78.0)	1.72E-15	1.64E-11
LAK10ACP9-LFOO	5	2.90E-03 ( 39.0)	5.91E-12 ( 78.0)	1.72E-15	1.64E-11
LAK93ACP3-LFCC	5	2.90E-03 ( 39.0)	4.70E-12 ( 80.0)	1.54E-15	9.36E-12
CSCF068A-VCC-CC	5	2.50E-03 ( 50.0)	4.05E-12 ( 81.5)	1.22E-15	8.85E-12
RHRF4BAA-V00-CC	5	2.50E-03 ( 50.0)	4.05E-12 ( 81.5)	1.22E-15	8.85E-12
LAK9BCP3-LFOO	4	2.90E-03 ( 39.0)	1.62E-12 ( 83.5)	5.14E-17	1.73E-12
LAK18BCP1-LFOO	4	2.90E-03 ( 39.0)	1.62E-12 ( 83.5)	5.14E-17	1.73E-12
RHR002BB-P-NDUUM	4	3.00E-03 ( 31.5)	1.58E-12 ( 85.5)	3.53E-17	1.65E-12
C2DG01P-P-UUM	4	3.00E-03 ( 31.5)	1.58E-12 ( 85.5)	3.53E-17	1.65E-12
LAK93BCP3-LFCC	4	2.90E-03 ( 39.0)	1.52E-12 ( 87.0)	7.66E-17	1.91E-12
CSCF0683-VCC-CC	4	2.50E-03 ( 50.0)	1.31E-12 ( 90.0)	4.76E-17	1.50E-12
SEVY03CB-FMS-CC	4	2.50E-03 ( 50.0)	1.31E-12 ( 90.0)	4.76E-17	1.50E-12
RHRF4BBB-V00-CC	4	2.50E-03 ( 50.0)	1.31E-12 ( 90.0)	4.76E-17	1.50E-12
RHRB01BB-B00-CC	4	2.50E-03 ( 50.0)	1.31E-12 ( 90.0)	4.76E-17	1.50E-12
C2DG01P-PMS-CC	4	2.50E-03 ( 50.0)	1.31E-12 ( 90.0)	4.76E-17	1.50E-12
SEVY03AX-ACX-LFI	4	8.40E-04 ( 69.5)	4.41E-13 ( 93.0)	2.58E-17	5.49E-13
1EB1Y1X-BCO	2	7.20E-05 ( 93.5)	2.05E-13 ( 94.0)	2.15E-17	1.10E-12
CCBF068A-BCO-LF	1	8.40E-05 ( 87.5)	9.13E-14 ( 95.0)	5.54E-18	4.49E-13
RA-5V-1-2H	163	2.10E-03 ( 59.0)	-2.13E-10 ( 96.0)	-7.40E-10	-5.66E-13
OPFAIL-VENT-2H	293	2.10E-03 ( 59.0)	-7.99E-10 ( 97.0)	-2.32E-09	-2.91E-12

## SEQUENCE T16

## RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
1EB36YB-BCO-LF	115	7.20E-05 ( 93.5)	1.33E-03 ( 1.0)	1.08E-04	4.58E-03
SUR-005-V	394	2.10E-03 ( 59.0)	1.88E-04 ( 2.0)	2.56E-05	5.58E-04
1EB235XA-BCO-LF	18	7.20E-05 ( 93.5)	8.29E-05 ( 3.0)	1.73E-06	3.40E-04
1EB36YB-B-UUM	18	1.00E-04 ( 84.5)	2.29E-05 ( 4.0)	3.89E-07	9.21E-05
1E36YB-V-UUM	17	1.00E-04 ( 84.5)	2.25E-05 ( 5.0)	3.82E-07	8.97E-05
CSCD300A-PLG-LF	25	1.20E-03 ( 63.5)	1.74E-05 ( 6.0)	9.21E-07	6.73E-05
CODG01F-PLG-LF	17	5.80E-04 ( 74.5)	1.52E-05 ( 7.0)	7.55E-07	6.22E-05
RHRB01AA-B00-LF	10	5.00E-04 ( 78.5)	1.51E-05 ( 9.0)	7.53E-07	6.22E-05
RHRF48AA-V00-LF	10	5.00E-04 ( 78.5)	1.51E-05 ( 9.0)	7.53E-07	6.21E-05
CSCF068A-VCC-LF	10	5.00E-04 ( 78.5)	1.51E-05 ( 9.0)	7.53E-07	6.21E-05
RHR301AX-STR	6	1.10E-04 ( 82.5)	1.51E-05 ( 11.0)	7.52E-07	6.22E-05
RHR302AA-PMS-LF	11	1.10E-03 ( 66.5)	1.51E-05 ( 12.5)	7.53E-07	6.22E-05
CODG01P-PMS-LF	11	1.10E-03 ( 66.5)	1.51E-05 ( 12.5)	7.53E-07	6.22E-05
LCSC002A-P-UUM	11	3.00E-03 ( 31.5)	1.51E-05 ( 14.5)	7.49E-07	6.21E-05
RHRC02AA-P-UUM	11	3.00E-03 ( 31.5)	1.51E-05 ( 14.5)	7.49E-07	6.21E-05
CSCD300B-PLG-LF	22	1.20E-03 ( 63.5)	1.51E-05 ( 16.0)	7.55E-07	6.17E-05
RHRH01AX-HTX-LFB	14	6.20E-03 ( 23.5)	1.51E-05 ( 17.0)	7.51E-07	6.21E-05
C2DG01T-PLG-LF	15	5.80E-04 ( 74.5)	1.05E-05 ( 18.0)	2.25E-07	4.38E-05
1EB235YA-BCO-LF	10	7.20E-05 ( 93.5)	1.05E-05 ( 19.0)	2.25E-07	4.37E-05
EE-CSCD300B-PLG	3	7.20E-04 ( 72.0)	1.05E-05 ( 20.0)	2.45E-07	4.37E-05
RHRF48BB-V00-LF	7	5.00E-04 ( 78.5)	1.05E-05 ( 22.0)	2.25E-07	4.37E-05
RHRB01BB-B00-LF	7	5.00E-04 ( 78.5)	1.05E-05 ( 22.0)	2.25E-07	4.37E-05
CSCF068B-VCC-LF	7	5.00E-04 ( 78.5)	1.05E-05 ( 22.0)	2.25E-07	4.37E-05
RHR301BX-STR	1	1.10E-04 ( 82.5)	1.05E-05 ( 24.0)	2.25E-07	4.37E-05
C2DG01P-PMS-LF	8	1.10E-03 ( 66.5)	1.05E-05 ( 25.5)	2.25E-07	4.37E-05
RHRC02BB-PMS-LF	8	1.10E-03 ( 66.5)	1.05E-05 ( 25.5)	2.25E-07	4.37E-05
EE-C2DG01F-PLG	1	7.20E-04 ( 72.0)	1.05E-05 ( 27.0)	2.25E-07	4.37E-05
RHRC02BB-P-UUM	8	3.00E-03 ( 31.5)	1.05E-05 ( 28.0)	2.25E-07	4.36E-05
RHRH01BX-HTX-LFB	12	6.20E-03 ( 23.5)	1.04E-05 ( 29.0)	2.26E-07	4.37E-05
RA-8-27H	33	3.20E-03 ( 27.0)	3.70E-06 ( 30.0)	5.99E-08	1.37E-05
LPCI-PMS-CM	2	2.50E-03 ( 50.0)	3.29E-06 ( 31.0)	2.62E-08	1.22E-05
RA-1-1-27H	224	2.10E-03 ( 59.0)	2.58E-06 ( 32.0)	2.39E-08	8.07E-06
RA-2-11-27H	74	1.60E-03 ( 62.0)	1.43E-06 ( 33.0)	1.68E-08	4.16E-06
1EB16211-BCO	2	8.40E-05 ( 87.5)	1.36E-06 ( 34.0)	5.39E-09	5.00E-06
SUR-006-V	62	8.70E-02 ( 12.0)	9.02E-07 ( 35.0)	2.24E-08	2.49E-06
LPCI-MOV-CM2	2	2.50E-03 ( 50.0)	8.98E-07 ( 36.5)	8.49E-09	3.83E-06
LPCI-MOV-CM1	2	2.50E-03 ( 50.0)	8.98E-07 ( 36.5)	8.49E-09	3.83E-06
1EB236B-BCO-LF	2	7.20E-05 ( 93.5)	7.94E-07 ( 38.0)	3.06E-09	2.61E-06
1EB235A-BCO-LF	1	7.20E-05 ( 93.5)	7.92E-07 ( 39.0)	3.06E-09	2.60E-06
CODG01P-PMS-CC	5	2.50E-03 ( 50.0)	7.69E-07 ( 41.0)	3.06E-09	2.91E-06
RHRB01AA-B00-CC	5	2.50E-03 ( 50.0)	7.69E-07 ( 41.0)	3.06E-09	2.91E-06
NWVY01CA-FMS-CC	5	2.50E-03 ( 50.0)	7.69E-07 ( 41.0)	3.06E-09	2.91E-06
CODG01P-P-UUM	5	3.00E-03 ( 31.5)	7.69E-07 ( 43.5)	3.06E-09	2.90E-06
RHRC02AA-P-NDUUM	5	3.00E-03 ( 31.5)	7.69E-07 ( 43.5)	3.06E-09	2.90E-06
1EB211YX-BCO-LF	1	7.20E-05 ( 93.5)	6.79E-07 ( 45.5)	2.70E-09	2.50E-06

1E81Y22X-BC0	1	7.20E-05 ( 93.5)	6.79E-07 ( 45.5)	2.70E-09	2.50E-06
1E816212-BC0	1	8.40E-05 ( 87.5)	6.79E-07 ( 47.5)	2.70E-09	2.50E-06
CB800G1P-BC0-LF	1	8.40E-05 ( 87.5)	6.79E-07 ( 47.5)	2.70E-09	2.50E-06
NWY0101AX-ACX-LF1	4	8.40E-04 ( 6.5)	6.79E-07 ( 49.0)	2.70E-09	2.50E-06
TDRFP-T-DE-27H	216	2.60E-03 ( 43.0)	6.50E-07 ( 50.0)	2.67E-09	2.40E-06
LPCI-MOV-BETA	4	3.00E-02 ( 13.0)	1.45E-07 ( 51.0)	2.11E-10	4.50E-07
LPCI-BETA	2	1.10E-01 ( 1.0)	6.67E-08 ( 52.0)	9.77E-11	2.05E-07
LAK9ARCA-ROO-LFO	45	2.00E-02 ( 18.0)	6.31E-08 ( 53.5)	1.08E-09	2.08E-07
LAK10RCA-ROO-LFO	45	2.00E-02 ( 18.0)	6.31E-08 ( 53.5)	1.08E-09	2.08E-07
LAK1BARA-ROO-LFO	44	2.00E-02 ( 18.0)	6.11E-08 ( 55.0)	1.03E-09	2.06E-07
EE-CSCD300A-PLG	2	7.20E-04 ( 72.0)	5.1E-08 ( 56.0)	7.22E-11	1.90E-07
LAK93ARC-ROO-LFO	41	2.00E-02 ( 18.0)	4.86E-08 ( 57.0)	4.51E-10	1.79E-07
LAK9BRCB-ROG-LFO	40	2.00E-02 ( 18.0)	3.80E-08 ( 58.5)	5.99E-10	1.02E-07
LAK18R8B-ROO-LFO	40	2.00E-02 ( 18.0)	3.80E-08 ( 59.0)	5.99E-10	1.02E-07
LAK3ARCA-ROO-LFO	9	3.40E-03 ( 25.5)	3.21E-08 ( 59.0)	5.48E-11	9.73E-08
RA-1-27H	1	2.10E-03 ( 59.0)	3.14E-08 ( 59.0)	5.48E-11	1.06E-07
LAK93BRC-ROO-LFO	36	2.00E-02 ( 18.0)	2.99E-08 ( 62.0)	2.57E-10	8.87E-08
LAK14ARC-ROO-LFO	13	2.00E-02 ( 18.0)	2.72E-08 ( 63.0)	2.17E-10	7.76E-08
LAK3BRCB-ROO-LFO	5	3.40E-03 ( 25.5)	2.25E-08 ( 64.0)	1.03E-10	7.85E-08
RHRC003B-P-UUM	5	3.00E-03 ( 31.5)	2.75E-08 ( 65.0)	1.03E-10	7.89E-08
LAK14BRC-ROO-LFO	10	2.00E-02 ( 18.0)	2.11E-08 ( 66.0)	1.35E-10	5.65E-08
1E81Y1X-BC0	2	7.20E-05 ( 93.5)	2.85E-09 ( 67.0)	3.20E-12	1.26E-08
LAK9ACP3-LF00	5	2.90E-03 ( 39.0)	2.03E-09 ( 69.0)	3.84E-12	7.28E-09
LAK18ACP1-LF00	5	2.90E-03 ( 39.0)	2.03E-09 ( 69.0)	3.84E-12	7.28E-09
LAK10ACG9-LF00	5	2.90E-03 ( 39.0)	2.03E-09 ( 69.0)	3.84E-12	7.28E-09
CSCF068A-VCC-CC	5	2.50E-03 ( 50.0)	1.1E-09 ( 71.5)	2.07E-12	4.33E-09
RHRF48AA-V00-CC	5	2.50E-03 ( 50.0)	1.1E-09 ( 71.5)	2.07E-12	4.33E-09
LAK93ACP3-LFCC	5	2.50E-03 ( 39.0)	1.61E-09 ( 73.0)	2.08E-12	4.33E-09
CCBF068A-BCO-LF	1	8.40E-05 ( 87.5)	1.09E-09 ( 74.0)	5.98E-13	3.66E-09
LAK98CP3-LF00	4	2.90E-03 ( 39.0)	5.57E-10 ( 75.5)	9.49E-14	9.81E-10
LAK188CP1-LF00	4	2.90E-03 ( 39.0)	5.57E-10 ( 75.5)	9.49E-14	9.81E-10
SEVY03AX-ACX-LF1	4	8.40E-04 ( 69.5)	5.25E-10 ( 77.0)	1.41E-13	9.31E-10
CSCF068B-VCC-CC	4	2.50E-03 ( 50.0)	5.24E-10 ( 80.0)	1.36E-13	9.29E-10
SEVY03CB-FMS-CC	4	2.50E-03 ( 50.0)	5.24E-10 ( 80.0)	1.36E-13	9.29E-10
RHRF48BB-V00-CC	4	2.50E-03 ( 50.0)	5.24E-10 ( 80.0)	1.36E-13	9.29E-10
RHRB018B-800-CC	4	2.50E-03 ( 50.0)	5.24E-10 ( 80.0)	1.36E-13	9.29E-10
C2D601P-PMS-CC	4	2.50E-03 ( 50.0)	5.24E-10 ( 80.0)	1.36E-13	9.29E-10
LAK93B0P3-LFCC	4	2.90E-03 ( 31.5)	5.24E-10 ( 84.5)	1.41E-13	9.28E-10
RHRC028B-P-N0UBM	4	3.00E-03 ( 31.5)	5.24E-10 ( 84.5)	1.41E-13	9.28E-10
C2D601P-P-UUM	4	3.00E-03 ( 31.5)	0.00E+00 ( 90.5)		
NOFLOW-SPC-B5X	10	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
NOFLOW-SPC-65X	13	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
NOFLOW-RHR-B1	1	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
NOFLOW-RHR-A1	6	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
NOFLOW-CSS-B7A	10	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
NOFLOW-CSS-A7A	13	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
SCSF068B-DENER	8	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
SCSF068A-DENER	11	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
FLOW-RHR-B3	51	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
FLOW-RHR-A3	61	1.00E+00 ( 5.5)	0.00E+00 ( 90.5)		
PA-5V-1-2H	163	2.10E-03 ( 59.0)	-1.01E-07 ( 96.0)	-3.52E-07	-1.10E-09
OPFAIL-VENT-2H	293	2.10E-03 ( 7.0)	-3.80E-07 ( 97.0)	-1.56E-06	-6.13E-09

SEQUENCE 116  
UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	A REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	X.05/TE.05*	Y.05/TE.05*
SUR-005-V	394	2.10E-03 ( 59.0)	50.6 ( 1.0)	4.09	0.76
RHR01AX-HTX-LFB	14	6.20E-03 ( 23.5)	9.4 ( 2.5)	1.30	0.96
RHR01BX-RTX-LFB	12	6.20E-03 ( 23.5)	9.4 ( 2.5)	1.30	0.96
RHR02AA-P-UUM	11	3.00E-03 ( 31.5)	8.2 ( 5.5)	1.14	1.18
RHR003B-P-UUM	5	3.00E-03 ( 31.5)	8.2 ( 5.5)	1.14	1.18
RHR02BB-P-UUM	8	3.00E-03 ( 31.5)	8.2 ( 5.5)	1.14	1.18
LCSC002A-P-UUM	11	3.00E-03 ( 31.5)	8.2 ( 5.5)	1.14	1.18
TEB76212-BCO	1	8.40E-05 ( 87.5)	5.8 ( 9.5)	1.00	1.00
TEB76211-BCO	2	8.40E-05 ( 87.5)	5.8 ( 9.5)	1.00	1.00
CCBF062A-BCO-LF	1	8.40E-05 ( 87.5)	5.8 ( 9.5)	1.00	1.00
CCB001P-BCO-LF	1	8.40E-05 ( 87.5)	5.8 ( 9.5)	1.24	1.00
TEB76YB-BCO-LF	115	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
TEB7F22X-BCO	1	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
TEB7Y1K-BCO	2	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
TEB235YA-BCO-LF	10	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
TEB235XA-BCO-LF	18	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
TEB236B-BCO-LF	2	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
TEB211YK-BCO-LF	1	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
TEB235A-BCO-LF	1	7.20E-05 ( 93.5)	5.8 ( 15.5)	1.24	1.00
CSCD300A-PLG-LF	25	1.20E-03 ( 63.5)	5.4 ( 20.5)	1.10	0.93
CSCD300B-PLG-LF	22	1.20E-03 ( 63.5)	5.4 ( 20.5)	1.10	0.93
CDDG01F-PLG-LF	17	5.80E-04 ( 74.5)	5.3 ( 22.5)	1.01	1.00
CZD601F-PLG-LF	15	5.80E-04 ( 74.5)	5.3 ( 22.5)	1.01	1.00
CSCF068B-VCC-LF	7	5.00E-04 ( 78.5)	4.7 ( 25.5)	1.08	0.96
CSCF068A-VCC-LF	10	5.00E-04 ( 78.5)	4.7 ( 25.5)	1.08	0.96
RHRF488B-V00-LF	7	5.00E-04 ( 78.5)	4.7 ( 25.5)	1.08	0.96
RHRF488A-V00-LF	10	5.00E-04 ( 78.5)	4.7 ( 25.5)	1.08	0.96
SUR-006-V	62	8.70E-02 ( 12.0)	2.7 ( 28.0)	1.17	1.00
RA-2-11-27H	74	1.60E-03 ( 62.0)	2.4 ( 29.0)	1.00	1.00
NAVY01AX-ACX-LF1	4	8.40E-04 ( 69.5)	1.9 ( 30.5)	0.98	1.00
SEVY03AX-ACX-LF1	4	8.40E-04 ( 69.5)	1.9 ( 30.5)	0.98	1.00
LPCI-BETA	2	1.10E-01 ( 11.0)	1.8 ( 32.0)	1.11	1.00
RHR301BX-STR	1	1.10E-04 ( 82.5)	1.7 ( 33.5)	1.01	1.00
RHR301AX-STR	6	1.10E-04 ( 82.5)	1.7 ( 33.5)	1.01	1.00
CZD601P-PMS-LF	8	1.10E-03 ( 66.5)	1.5 ( 36.5)	1.07	0.96
RHR02AA-PMS-LF	11	1.10E-03 ( 66.5)	1.5 ( 36.5)	1.07	0.96
RHR02BB-PMS-LF	8	1.10E-03 ( 66.5)	1.5 ( 36.5)	1.07	0.96
CDDG01P-PMS-LF	11	1.10E-03 ( 66.5)	1.5 ( 36.5)	1.07	0.96
RA-7-1-27H	1	2.10E-03 ( 59.0)	1.1 ( 40.5)	0.96	1.00
PA-5V-1-2H	163	2.10E-03 ( 59.0)	1.1 ( 40.5)	0.96	1.00
RA-1-1-27H	224	2.10E-03 ( 59.0)	1.1 ( 40.5)	0.96	1.00
DPFALL-VENT-2H	293	2.10E-03 ( 59.0)	1.1 ( 40.5)	0.96	1.00
LAK96CP3-LFOO	4	2.90E-03 ( 39.0)	1.1 ( 46.0)	1.00	1.00
LAK94CP3-LFOO	5	2.90E-03 ( 39.0)	1.1 ( 46.0)	1.00	1.00
LAK93CP3-LFOO	4	2.90E-03 ( 39.0)	1.1 ( 46.0)	1.00	1.00

LAK93ACP3-LFCC	5	2.90E-03	( 39.6)	1.1	( 46.0)	1.00
LAK18BCP1-LFOO	4	2.90E-03	( 39.0)	1.1	( 46.0)	1.00
LAK18ACP1-LFOO	5	2.90E-03	( 39.0)	1.1	( 46.0)	1.00
LAK10ACP9-LFOO	5	2.90E-03	( 39.0)	1.1	( 46.0)	1.00
EE-CSD300B-PLG	3	7.20E-04	( 72.0)	0.0	( 68.5)	1.00
C00G01P-PMS-CC	5	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
EE-CSD300A-PLG	2	7.20E-04	( 72.0)	0.0	( 68.5)	1.00
EE-C20G01F-PLG	1	7.20E-04	( 72.0)	0.0	( 68.5)	1.00
LPCI-PMS-CK	2	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LPCI-MOV-CH2	2	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LPCI-MOV-CH1	2	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LPCI-MOV-BETA	4	3.00E-02	( 3.0)	0.0	( 68.5)	1.00
C00G01P-P-UUM	5	3.00E-03	( 31.5)	0.0	( 68.5)	1.00
CSCF068B-VCC-CC	4	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LAK9BRCB-ROO-LFO	40	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
CSCF068A-VCC-CC	5	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LAK9ARCA-ROO-LFO	45	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
TDRFP-T-DE-27H	216	2.60E-03	( 43.0)	0.0	( 68.5)	1.00
SEVY03CB-FMS-CC	4	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LAK93BRC-ROO-LFO	36	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
LAK93ARC-ROO-LFO	41	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
1E636YB-B-UUM	18	1.00E-04	( 84.5)	0.0	( 68.5)	1.00
LAK3BRCB-ROO-LFO	5	3.40E-03	( 25.5)	0.0	( 68.5)	1.00
RHRF48AA-V00-CC	5	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LAK3APCA-ROO-LFO	9	3.40E-03	( 25.5)	0.0	( 68.5)	1.00
RHRC028B-P-NOUJM	4	3.00E-03	( 31.5)	0.0	( 68.5)	1.00
LAK189RB-ROO-LFO	40	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
LAK18ARA-ROO-LFO	44	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
RHRB018B-BOO-LF	7	5.00E-04	( 78.5)	0.0	( 68.5)	1.00
RHRB018B-BOO-CC	4	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
C20G01P-PMS-CC	4	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
RHRB01AA-BOG-LF	10	5.00E-04	( 78.5)	0.0	( 68.5)	1.00
RHRC028A-P-NOUJM	5	3.00E-03	( 31.5)	0.0	( 68.5)	1.00
RHRB01AA-BOG-CC	5	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
LAK14BRC-ROO-LFO	10	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
LAK14ARC-ROO-LFO	13	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
C20G01P-P-UUM	4	3.00E-03	( 31.5)	0.0	( 68.5)	1.00
RA-8-27H	33	3.20E-03	( 27.0)	0.0	( 68.5)	1.00
LAK108CA-ROO-LFO	45	2.00E-02	( 18.0)	0.0	( 68.5)	1.00
NWY01CA-FMS-CC	5	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
RHRF48BB-V00-CC	4	2.50E-03	( 50.0)	0.0	( 68.5)	1.00
1E36YB-V-UUM	17	1.00E-04	( 84.5)	0.0	( 68.5)	1.00
NOFLOW-SPC-65X	10	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
NOFLOW-SPC-ASX	13	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
NOFLOW-RHR-A1	1	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
NOFLOW-RHR-A1	6	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
NOFLOW-CSS-B7A	10	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
NOFLOW-CSS-A7A	13	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
SCSF06BB-DENER	8	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
SCSF06AA-DENER	11	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
FLOW-RHR-B3	51	1.00E+00	( 5.5)	0.0	( 68.5)	1.00
FLOW-RHR-A3	61	1.00E+00	( 5.5)	0.0	( 68.5)	1.00

SEQUENCE 116

OUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT PDS-C-T-S-Q2C WITH TOP EVENT FREQUENCY 4.87E-07

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	4	6.50E-08	0.13506	1E-T9A	/OPFAIL-VENT-2H	RHR018X-HTX-LFB	SUR-005-V
3	2	4	6.50E-08	0.27011	1E-T9B	/OPFAIL-VENT-2H	RHR01AX-HTX-LFB	SUR-005-V
4	4	5	3.14E-08	0.33546	1E-T9B	/OPFAIL-VENT-2H	RHR02AA-P-UUM	SCSF06AA-DENER
5	5	5	3.14E-08	0.40082	SUR-005-V	/OPFAIL-VENT-2H	RHR02BB-P-UUM	SCSF06BB-DENER
6	5	5	3.14E-08	0.40082	1E-T9A	/OPFAIL-VENT-2H	RHR02BB-P-UUM	SCSF06BB-DENER
7	5	5	3.14E-08	0.40082	SUR-005-V	/OPFAIL-VENT-2H	RHR02BB-P-UUM	SCSF06BB-DENER
8	3	4	3.14E-08	0.66117	1E-T9B	LSC002A-P-UUM	/OPFAIL-VENT-2H	SUR-005-V
9	4	5	2.33E-08	0.5151	1E-T9B	1E-T5	/RA-5V-1-2H	RHR01AX-HTX
10	4	5	2.33E-08	0.5151	1E-T9B	1E-T5	/RA-5V-1-2H	RHR01AX-HTX
11	6	4	1.26E-08	0.54065	SUR-006-V	/OPFAIL-VENT-2H	/OPFAIL-VENT-2H	SUR-005-V
12	7	4	1.26E-08	0.56679	CSCD300B-PLG-LF	1E-T9A	/OPFAIL-VENT-2H	SUR-005-V
13	8	4	1.15E-08	0.59075	CSCD300A-PLG-LF	1E-T9B	/OPFAIL-VENT-2H	SUR-005-V
14	9	4	1.15E-08	0.61471	1E-T9A	/OPFAIL-VENT-2H	RHR02AA-PMS-LF	SUR-005-V
15	10	4	1.15E-08	0.63867	C2D01P-PMS-LF	1E-T9A	RHR02BB-PMS-LF	SUR-005-V
16	11	4	1.13E-08	0.66264	C0D01P-PMS-LF	1E-T9B	/OPFAIL-VENT-2H	SUR-005-V
17	6	5	1.13E-08	0.68603	1E-T9B	1E-T5	/OPFAIL-VENT-2H	SUR-005-V
18	6	5	1.13E-08	0.68603	1E-T9B	1E-T5	LSC002A-P-UUM	/RA-5V-1-2H
19	6	6	1.13E-08	0.70942	SUR-006-V	1E-T5	/RA-5V-1-2H	RHR02AA-P-UUM
20	6	6	1.13E-08	0.70942	1E-T9A	1E-T5	/RA-5V-1-2H	RHR02AA-P-UUM
21	13	4	7.54E-09	0.72510	SCSF06AA-DENER	SUR-006-V	/OPFAIL-VENT-2H	SUR-005-V
22	12	4	7.54E-09	0.74079	EE-CSCD300B-PLG	1E-T9A	/OPFAIL-VENT-2H	SUR-005-V
23	6	7	3.3E-09	0.75603	EE-C2D01F-PLG	1E-T9A	/OPFAIL-VENT-2H	SUR-005-V
24	6	7	3.3E-09	0.75603	1E-LOSP	LPGT-BETA	LPGT-PMS-CM	/OPFAIL-VENT-2H
25	14	4	6.08E-09	0.76867	RA-8-27H	SUR-006-V	/OPFAIL-VENT-2H	SUR-005-V
26	15	4	6.08E-09	0.78130	C0D01F-PLG-LF	1E-T9B	/OPFAIL-VENT-2H	SUR-005-V
27	17	4	5.24E-09	0.79220	C2D01F-PLG-LF	1E-T9A	/OPFAIL-VENT-2H	SUR-005-V
28	21	4	5.24E-09	0.80309	CSCF06BA-VCC-LF	1E-T9B	/OPFAIL-VENT-2H	SUR-005-V
29	20	5	5.24E-09	0.81398	CSCF06BB-VCC-LF	1E-T9A	/OPFAIL-VENT-2H	RHR048BB-V00-LF
30	19	4	5.24E-09	0.82487	FLOW-RHR-B3	1E-T9A	/OPFAIL-VENT-2H	RHR048BB-V00-LF
31	18	4	5.24E-09	0.83576	SUR-005-V	/OPFAIL-VENT-2H	RHR018B-800-LF	SUR-005-V
32	18	4	5.24E-09	0.83576	1E-T9A	1E-T9B	/OPFAIL-VENT-2H	RHR018B-800-LF
33	18	4	5.24E-09	0.83576	FLOW-RHR-A3	1E-T9B	/OPFAIL-VENT-2H	RHR018B-800-LF
34	16	4	5.24E-09	0.84665	SUR-005-V	/OPFAIL-VENT-2H	RHR01AX-800-LF	SUR-005-V
35	81	5	4.50E-09	0.85601	1E-T9B	/OPFAIL-VENT-2H	RHR01AX-800-LF	SUR-005-V
36	32	5	4.50E-09	0.86537	1E-T9B	CSCD300B-PLG-LF	1E-T5	/OPFAIL-VENT-2H
37	32	5	4.50E-09	0.86537	1E-T9B	CSCD300A-PLG-LF	1E-T5	/RA-5V-1-2H
38	32	5	4.50E-09	0.86537	1E-T9B	CSCD300A-PLG-LF	1E-T5	/RA-5V-1-2H
39	22	5	4.21E-09	0.87412	SUR-006-V	1E-T1	/RA-5V-1-2H	RHR01AX-HTX-LFB
40	86	5	4.13E-09	0.88270	1E-T9B	1E-T5	/RA-5V-1-2H	RHR02AA-PMS-LF
41	86	5	4.13E-09	0.88270	1E-T9B	1E-T5	/RA-5V-1-2H	RHR02AA-PMS-LF
42	85	5	4.13E-09	0.89127	1E-T9B	C0D01P-PMS-LF	1E-T5	/RA-5V-1-2H
43	85	5	4.13E-09	0.89127	1E-T9B	C0D01P-PMS-LF	1E-T5	/RA-5V-1-2H
44	85	5	4.13E-09	0.89127	1E-T9B	C0D01P-PMS-LF	1E-T5	/RA-5V-1-2H



45	102	5	2.18E-09	0.89580	1EB36YB-BCD-LF	* COB601F-PLG-LF	* IE-T5	* /RA-SV-1-2H	*
46					SUR-006-V	* IE-T1	* /RA-SV-1-2H	* RHR02AA-P-UUM	*
47	24	6	2.04E-09	0.90003	1EB36YB-BCD-LF	* SUR-005-V	* /RA-SV-1-2H	* RHR02AA-P-NDUUM	*
48					SCSF06AA-DENER	* IE-T1			*
49	23	5	2.04E-09	0.90426	1EB36YB-BCD-LF	* IE-T1			*
50					SUR-005-V				*
51	26	5	2.04E-09	0.90850	1EB36YB-BCD-LF	* IE-T1	* LCSC002A-P-UUM	* /RA-SV-1-2H	*
52					SUR-005-V				*
53	25	5	2.04E-09	0.91273	1EB36YB-JCO-LF	* COB601P-P-UUM	* IE-T1	* /RA-SV-1-2H	*
54					SUR-005-V				*
55	78	6	2.00E-09	0.91689	IE-LOSP	* LPCI-MOV-BETA	* LPCI-MOV-OM2	* /OPFAIL-VENT-2H	*
56					RA-8-27H	* SUR-006-V			*
57	77	6	2.00E-09	0.92105	IE-LOSP	* LPCI-MOV-BETA	* LPCI-MOV-GA1	* /OPFAIL-VENT-2H	*
58					RA-8-27H	* SUR-006-V			*
59	110	5	1.88E-09	0.92495	1EB36YB-BCD-LF	* CSCF068A-YCC-LF	* IE-T5	* /RA-SV-1-2H	*
60					SUR-006-V				*
61	111	5	1.88E-09	0.92885	1EB36YB-BCD-LF	* IE-T5	* /RA-SV-1-2H	* RHR01AA-800-LF	*
62					SUR-006-V				*
63	109	6	1.88E-09	0.93275	1EB36YB-BCD-LF	* FLOW-RHR-A3	* IE-T5	* /RA-SV-1-2H	*
64					RHRF48AA-V00-LF	* SUR-006-V			*
65	27	5	1.70E-09	0.93628	1EB36YB-BCD-LF	* IE-T1	* /RA-SV-1-2H	* RHR01AA-800-CC	*
66					SUR-005-V				*
67	28	5	1.70E-09	0.93980	1EB36YB-BCD-LF	* COB601P-PMS-CC	* IE-T1	* /RA-SV-1-2H	*
68					SUR-005-V				*
69	29	5	1.70E-09	0.94333	1EB36YB-BCD-LF	* IE-T1	* NMV01CA-PMS-CC	* /RA-SV-1-2H	*
70					SUR-005-V				*
71	30	5	1.15E-09	0.94573	IE-T9B	* NOFLOW-RHR-A1	* /OPFAIL-VENT-2H	* RHR01TAX-STR	*
72					SUR-005-V				*
73	31	5	1.15E-09	0.94813	IE-T9A	* NOFLOW-RHR-B1	* /OPFAIL-VENT-2H	* RHR01BAX-STR	*
74					SUR-005-V				*
75	33	5	1.13E-09	0.95048	1EB36YB-B-UUM	* CSCD300A-PLG-LF	* IE-T1	* /RA-SV-1-2H	*
76					SUR-005-V				*
77	32	5	1.13E-09	0.95283	1EB36YB-V-UUM	* CSCD300A-PLG-LF	* IE-T1	* /RA-SV-1-2H	*
78					SUR-005-V				*
79	34	6	9.14E-10	0.95473	IE-T3	* LPCI-BETA	* LPCI-PMS-OM	* /OPFAIL-VENT-2H	*
80					SUR-005-V	* TDRFP-T-DE-27H			*
81	35	5	8.15E-10	0.95643	1EB36YB-BCD-LF	* CSCD300A-PLG-LF	* IE-T1	* /RA-SV-1-2H	*
82					SUR-005-V				*
83	36	5	8.15E-10	0.95812	1EB235AA-BCD-LF	* CSCD300B-PLG-LF	* IE-T1	* /OPFAIL-VENT-2H	*
84					SUR-005-V				*
85	37	4	7.54E-10	0.95969	1EB36YB-BCD-LF	* IE-T9A	* /RA-SV-1-2H	* SUR-005-V	*
86	38	4	7.54E-10	0.96126	1EB235YA-BCD-LF	* IE-T9B	* /RA-SV-1-2H	* SUR-005-V	*
87	39	5	7.47E-10	0.96281	1EB36YB-BCD-LF	* IE-T1	* /RA-SV-1-2H	* RHR02AA-PMS-LF	*
88					SUR-005-V				*
89	40	5	7.47E-10	0.96436	1EB36YB-BCD-LF	* COB601P-PMS-LF	* IE-T1	* /RA-SV-1-2H	*
90					SUR-005-V				*
91	42	5	5.71E-10	0.96555	1EB36YB-BCD-LF	* IE-T3	* /RA-SV-1-2H	* RHR01TAX-HTX-LFB	*
92					SUR-005-V				*
93	41	5	5.70E-10	0.96673	1EB36YB-BCD-LF	* IE-T1	* NMV01TAX-ACK-LF1	* /RA-SV-1-2H	*
94					SUR-005-V				*
95	44	5	4.86E-10	0.96774	1EB36YB-BCD-LF	* I-1.2	* /RA-SV-1-2H	* RHR01TAX-HTX-LFB	*
96					SUR-005-V				*

97	50	5	4.40E-10	0.96066	1E-198	* LAK1BARA-R00-LFO	* /OPFAIL-VENT-2H	* RA-1-1-27H	*	
98	99	5	4.40E-10	0.96957	SUR-005-V	* LAK08RCS-R00-LFO	* /OPFAIL-VENT-2H	* RA-1-1-27H	*	
100	101	5	4.40E-10	0.97049	SUR-005-V	* LAK18BRB-R00-LFO	* /OPFAIL-VENT-2H	* RA-1-1-27H	*	
101	102	5	4.40E-10	0.97140	1E-19A	* LAK9ARCA-R00-LFO	* /OPFAIL-VENT-2H	* RA-1-1-27H	*	
102	103	5	4.40E-10	0.97140	1E-19B	* LAK109CA-R00-LFO	* /OPFAIL-VENT-2H	* RA-1-1-27H	*	
103	104	5	4.40E-10	0.97232	1E-19B	* 1E-15	* NOFL0M-RHR-A7	* /RA-SV-1-2H	*	
104	105	5	4.40E-10	0.97232	SUR-005-V	* SUR-003-V	* CODG01P-PLG-LF	* 1E-11	* /RA-SV-1-2H	*
105	106	6	4.13E-10	0.97318	1E-19B	* 1E-14	* /RA-SV-1-2H	* RHR01AA-R00-LF	*	
106	107	5	3.94E-10	0.97400	RHR01AA-S1R	* 1E-11	* /RA-SV-1-2H	* RHR01AA-R00-LF	*	
107	108	5	3.94E-10	0.97400	1E-19A	* CSDF060A-VCC-LF	* 1E-11	* /RA-SV-1-2H	*	
108	109	5	3.94E-10	0.97400	SUR-005-V	* FLOW-RHR-A3	* 1E-11	* /RA-SV-1-2H	*	
109	110	5	3.84E-10	0.97479	1E-19B	* SUR-005-V	* FLOW-RHR-A3	* /RA-SV-1-2H	*	
110	111	5	3.84E-10	0.97479	1E-19A	* RHR42AA-V00-LF	* NOFL0M-CSS-A7A	* NOFL0M-SPC-ASX	*	
111	112	5	3.35E-10	0.97550	1E-19B	* 1E-19B	* RA-2-11-27H	* SUR-005-V	*	
112	113	5	3.35E-10	0.97550	1E-19A	* LAK14ARC-R00-LFO	* NOFL0M-CSS-B7A	* NOFL0M-SPC-BSX	*	
113	114	5	3.35E-10	0.97620	1E-19B	* /OPFAIL-VENT-2H	* SUR-005-V	* LAK93ARC-R00-LFO	* /OPFAIL-VENT-2H	*
114	115	5	3.35E-10	0.97620	1E-19A	* /OPFAIL-VENT-2H	* SUR-005-V	* LAK93ARC-R00-LFO	* /OPFAIL-VENT-2H	*
115	116	5	3.35E-10	0.97691	1E-19B	* RA-2-11-27H	* SUR-005-V	* /RA-SV-1-2H	* RHR02AA-P-UUM	*
116	117	5	3.35E-10	0.97691	1E-19A	* FLOW-RHR-A3	* SUR-005-V	* /RA-SV-1-2H	* RHR02AA-P-UUM	*
117	118	6	2.76E-10	0.98027	1E-19B	* SUR-005-V	* 1E-13	* /RA-SV-1-2H	* RHR02AA-P-UUM	*
118	119	6	2.76E-10	0.98085	1E-19A	* SCDF06AA-DENER	* SUR-005-V	* /RA-SV-1-2H	* RHR02AA-P-UUM	*
119	120	5	2.76E-10	0.98142	1E-19B	* 1E-13	* CODG01P-P-UUM	* 1E-13	* /RA-SV-1-2H	*
120	121	5	2.76E-10	0.98200	1E-19A	* 1E-13	* LCSC002A-P-UUM	* /RA-SV-1-2H	* /RA-SV-1-2H	*
121	122	6	2.49E-10	0.98251	1E-13	* LPCI-MOV-BETA	* LPCI-MOV-CMT	* /OPFAIL-VENT-2H	* /OPFAIL-VENT-2H	*
122	123	6	2.49E-10	0.98303	1E-13	* TORFP-T-DE-27H	* LPCI-MOV-BETA	* LPCI-MOV-CM2	* /OPFAIL-VENT-2H	*
123	124	6	2.49E-10	0.98352	1E-13	* TORFP-T-DE-27H	* TORFP-T-DE-27H	* LCSC002A-P-UUM	* /RA-SV-1-2H	*
124	125	5	2.35E-10	0.98401	1E-19B	* SUR-005-V	* 1E-12	* /RA-SV-1-2H	* RHR02AA-P-UUM	*
125	126	5	2.35E-10	0.98401	1E-19A	* 1E-12	* SUR-005-V	* /RA-SV-1-2H	* RHR02AA-P-UUM	*
126	127	5	2.30E-10	0.98449	1E-19B	* SCDF06AA-DENER	* CODG01P-PMS-CC	* 1E-13	* /RA-SV-1-2H	*
127	128	5	2.30E-10	0.98497	1E-19A	* 1E-13	* 1E-13	* /RA-SV-1-2H	* RHR01AA-R00-CC	*
128	129	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
129	130	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
130	131	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
131	132	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
132	133	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
133	134	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
134	135	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
135	136	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
136	137	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
137	138	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
138	139	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
139	140	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
140	141	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
141	142	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
142	143	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
143	144	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
144	145	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
145	146	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
146	147	5	2.30E-10	0.98545	1E-19B	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*
147	148	5	2.30E-10	0.98545	1E-19A	* 1E-13	* /RA-SV-1-2H	* /RA-SV-1-2H	* /RA-SV-1-2H	*

149	157	6	2.19E-10	0.98590	1E36YB-V-UUM	* 1E-T5	* LAKT8ARA-R00-LFO	* RA-1-1-27H	*
150					/RA-5V-1-2H	* SUR-006-V			*
151	155	6	2.19E-10	0.98636	1E36YB-V-UUM	* 1E-T5	* LAKTORCA-R00-LFO	* RA-1-1-27H	*
152					/RA-5V-1-2H	* SUR-006-V			*
153	156	6	2.19E-10	0.98681	1E36YB-V-UUM	* 1E-T5	* LAKGARCA-R00-LFO	* RA-1-1-27H	*
154					/RA-5V-1-2H	* SUR-006-V			*
155	158	6	2.19E-10	0.98726	1E36YB-B-UUM	* 1E-T5	* LAKTORCA-R00-LFO	* RA-1-1-27H	*
156					/RA-5V-1-2H	* SUR-006-V			*
157	159	6	2.19E-10	0.98772	1E36YB-B-UUM	* 1E-T5	* LAKGARCA-R00-LFO	* RA-1-1-27H	*
158					/RA-5V-1-2H	* SUR-006-V			*
159	154	6	2.19E-10	0.98817	1E36YB-B-UUM	* 1E-T5	* LAKT8ARA-R00-LFO	* RA-1-1-27H	*
160					/RA-5V-1-2H	* SUR-006-V			*
161	73	6	1.86E-10	0.98856	1E36YB-BCO-LF	* 1E-T4	* /RA-5V-1-2H	* RHRCC2AA-P-UUM	*
162					SECF06AA-GENER	* SUR-005-V			*
163	74	5	1.86E-10	0.98895	1E36YB-BCO-LF	* 1E-T4	* CSC002A-P-UUM	* /RA-5V-1-2H	*
164					SUR-005-V				*
165	178	7	1.67E-10	0.98929	1E36YB-V-UUM	* FLOW-RHR-A3	* 1E-T5	* LAK93ARC-R00-LFO	*
166					RA-2-11-27H	* /RA-5V-1-2H	* SUR-006-V		*
167	177	7	1.67E-10	0.98964	1E36YB-B-UUM	* FLOW-RHR-A3	* 1E-T5	* LAK93ARC-R00-LFO	*
168					RA-2-11-27H	* /RA-5V-1-2H	* SUR-006-V		*
169	186	6	1.58E-10	0.98997	1E235XA-BCO-LF	* 1E-T5	* LAKT8ARB-R00-LFO	* /OPFAIL-VENT-2H	*
170					RA-1-1-27H	* SUR-006-V			*
171	187	6	1.58E-10	0.99029	1E36YB-BCO-LF	* 1E-T5	* LAKGARCA-R00-LFO	* RA-1-1-27H	*
172					/RA-5V-1-2H	* SUR-006-V			*
173	184	6	1.58E-10	0.99062	1E36YB-BCO-LF	* 1E-T5	* LAKTORCA-R00-LFO	* RA-1-1-27H	*
174					/RA-5V-1-2H	* SUR-006-V			*
175	185	6	1.58E-10	0.99095	1E235XA-BCO-LF	* 1E-T5	* LAK93CB-R00-LFO	* /OPFAIL-VENT-2H	*
176					RA-1-1-27H	* SUR-006-V			*
177	188	6	1.58E-10	0.99128	1E36YB-BCO-LF	* 1E-T5	* LAKT8ARA-R00-LFO	* RA-1-1-27H	*
178					/RA-5V-1-2H	* SUR-006-V			*
179	76	5	1.53E-10	0.99160	1E36YB-B-UUM	* CSC0300A-PLG-LF	* 1E-T3	* /RA-5V-1-2H	*
180					SUR-005-V				*
181	75	5	1.53E-10	0.99191	1E36YB-V-UUM	* CSC0300A-PLG-LF	* 1E-T3	* /RA-5V-1-2H	*
182					SUR-005-V				*
183	200	8	1.20E-10	0.99216	1E36YB-BCO-LF	* 1E-T5	* LAKT1ARC-R00-LFO	* NOFLOW-CSS-A7A	*
184					NOFLOW-SPC-A5X	* RA-2-11-27H	* /RA-5V-1-2H	* SUR-006-V	*
185	202	7	1.20E-10	0.99241	1E235XA-BCO-LF	* FLOW-RHR-B3	* 1E-T5	* LAK93ARC-R00-LFO	*
186					/OPFAIL-VENT-2H	* RA-2-11-27H	* SUR-006-V		*
187	201	7	1.20E-10	0.99266	1E36YB-BCO-LF	* FLOW-RHR-A3	* 1E-T5	* LAK93ARC-R00-LFO	*
188					RA-2-11-27H	* /RA-5V-1-2H	* SUR-006-V		*
189	79	5	1.10E-10	0.99289	1E36YB-BCO-LF	* CSC0300A-PLG-LF	* 1E-T3	* /RA-5V-1-2H	*
190					SUR-005-V				*
191	80	5	1.10E-10	0.99312	1E235XA-BCO-LF	* CSC0300B-PLG-LF	* 1E-T3	* /OPFAIL-VENT-2H	*
192					SUR-005-V				*
193	83	5	1.01E-10	0.99333	1E36YB-BCO-LF	* 1E-T3	* /RA-5V-1-2H	* RHRCC2AA-PMS-LF	*
194					SUR-005-V				*
195	84	5	1.01E-10	0.99354	1E36YB-BCO-LF	* C00G01P-PMS-LF	* 1E-T3	* /RA-5V-1-2H	*
196					SUR-005-V				*
197	87	5	9.42E-11	0.99374	1E36YB-BCO-LF	* CSC0300A-PLG-LF	* 1E-T2	* /RA-5V-1-2H	*
198					SUR-005-V				*

SEQUENCE 118

TOP EVENT CP05B2-1-SEQ2B CONTAINS 172 EVENTS IN 896 CUT SETS

THE FREQUENCY OF TOP EVENT CP05B2-1-SEQ2B IS 2.71E-06

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CP05B2-1-SEQ2B

N	300
MEAN	4.99E-06
STD DEV	3.33E-05
LOWER 5%	0.00E+00
LOWER 25%	9.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	2.09E-05

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE 118  
RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK			UPPER 5%
			REDUCTION (RANK)	LOWER 5%		
SUR-003-L	896	1.60E-01 ( 14.0)	2.71E-06 ( 1.5)	0.00E+00	2.09E-05	
CONT-LEAK	896	7.50E-01 ( 13.0)	2.71E-06 ( 1.5)	0.00E+00	2.09E-05	
RA-NONE	156	1.00E+00 ( 6.5)	2.20E-06 ( 3.0)			
TEB236B-BCO-LF	120	7.20E-05 (174.5)	1.77E-06 ( 4.0)	0.00E+00	1.27E-05	
RHR011A-RTX-LFB	17	6.20E-03 ( 34.5)	3.72E-07 ( 5.0)	0.00E+00	1.39E-06	
CSCD300A-PLG-LF	33	1.20E-03 ( 75.0)	2.19E-07 ( 6.0)	0.00E+00	9.93E-07	
RA-1-1-27N	334	2.10E-03 ( 70.0)	2.08E-07 ( 7.0)	0.00E+00	1.19E-06	
SCSF06AA-DENER	20	1.00E+00 ( 6.5)	1.81E-07 ( 8.0)			
LCSC002A-P-UUM	17	3.00E-03 ( 42.5)	1.30E-07 ( 9.5)	0.00E+00	4.36E-07	
RHR02AA-P-UUM	17	3.00E-03 ( 42.5)	1.80E-07 ( 9.5)	0.00E+00	4.36E-07	
RHR02AA-P-KOUJM	8	3.00E-03 ( 42.5)	1.37E-07 ( 11.5)	0.00E+00	6.01E-07	
COGG01P-P-UUM	8	3.00E-03 ( 42.5)	1.37E-07 ( 11.5)	0.00E+00	6.01E-07	
TE42YB-V-UUM	19	1.00E-04 (156.5)	1.24E-07 ( 13.0)	0.00E+00	7.37E-07	
NAVY01CA-FMS-CC	8	2.50E-03 ( 61.0)	1.14E-07 ( 15.0)	0.00E+00	3.69E-07	
COGG01P-PMS-CC	8	2.50E-03 ( 61.0)	1.14E-07 ( 15.0)	0.00E+00	3.69E-07	
RHR01AA-SOO-CC	8	2.50E-03 ( 61.0)	1.14E-07 ( 15.0)	0.00E+00	3.69E-07	
RA-2-11-27H	141	1.60E-03 ( 73.0)	1.11E-07 ( 17.0)	0.00E+00	4.53E-07	
RA-MSLDV-1-2H	169	2.10E-03 ( 70.0)	1.01E-07 ( 18.0)	0.00E+00	6.41E-07	
TEB236B-B-UUM	18	1.00E-04 (156.5)	8.54E-08 ( 19.0)	0.00E+00	4.24E-07	
TEB235A-BCO-LF	118	7.20E-05 (174.5)	7.10E-08 ( 20.0)	0.00E+00	5.86E-07	
RHR02AA-PMS-LF	17	1.10E-03 ( 78.5)	6.60E-08 ( 21.5)	0.00E+00	3.18E-07	
COGG01P-PMS-LF	17	1.10E-03 ( 78.5)	6.60E-08 ( 21.5)	0.00E+00	3.18E-07	
FLOW-RHR-A3	87	1.00E+00 ( 6.5)	6.19E-08 ( 23.0)			
TEB36YB-BCO-LF	120	7.20E-05 (174.5)	5.52E-08 ( 24.0)	0.00E+00	4.39E-07	
TEB16211-BCO	3	8.40E-05 (162.5)	5.04E-08 ( 25.0)	0.00E+00	3.67E-07	
TEB16212-BCO	2	8.40E-05 (162.5)	5.04E-08 ( 26.0)	0.00E+00	3.67E-07	
TEB36XB-BCO-LF	2	7.20E-05 (174.5)	4.60E-08 ( 27.5)	0.00E+00	3.58E-07	
TEB36Y1X-BCO-LF	2	7.20E-05 (174.5)	4.60E-08 ( 27.5)	0.00E+00	3.58E-07	
OPF41L-VENT-2H	260	2.10E-03 ( 70.0)	4.37E-08 ( 29.0)	0.00E+00	2.30E-07	
EE-CSCD300A-PLG	2	7.20E-04 ( 84.0)	3.98E-08 ( 30.0)	0.00E+00	2.57E-07	
LAK18ARA-ROO-LFO	58	2.00E-02 ( 25.0)	3.63E-08 ( 31.0)	0.00E+00	1.76E-07	
COGG01F-PLG-LF	23	5.80E-04 ( 92.5)	3.48E-08 ( 32.0)	0.00E+00	1.13E-07	
LAK10RCA-ROO-LFO	58	2.00E-02 ( 25.0)	3.40E-08 ( 33.5)	0.00E+00	1.69E-07	
LAK9ARCA-ROO-LFO	58	2.00E-02 ( 25.0)	3.40E-08 ( 33.5)	0.00E+00	1.69E-07	
LAK9ARCB-ROO-LFO	52	2.00E-02 ( 25.0)	3.40E-08 ( 35.5)	0.00E+00	1.69E-07	
LAK18BRB-ROO-LFO	52	2.00E-02 ( 25.0)	3.40E-08 ( 35.5)	0.00E+00	1.69E-07	
NAVY01AX-ACX-LFI	6	8.40E-04 ( 81.5)	3.38E-08 ( 37.0)	0.00E+00	8.02E-08	
LOW-RHR-83	76	1.00E+00 ( 6.5)	3.32E-08 ( 38.0)			
RHR01AA-800-LF	16	5.00E-04 (100.0)	3.00E-08 ( 40.0)	0.00E+00	9.21E-08	
RHR04BAA-V00-LF	16	5.00E-04 (100.0)	3.00E-08 ( 40.0)	0.00E+00	1.26E-07	
CSCF068A-VCC-LF	16	5.00E-04 (100.0)	3.00E-08 ( 40.0)	0.00E+00	1.24E-07	
LAK93ARC-ROO-LFO	54	2.00E-02 ( 25.0)	2.59E-08 ( 42.0)	0.00E+00	9.84E-08	
LAK93BRC-ROO-LFO	48	2.00E-02 ( 25.0)	2.59E-08 ( 43.0)	0.00E+00	9.84E-08	
LAK16ARC-RCO-LFO	16	2.00E-02 ( 25.0)	2.11E-08 ( 45.0)	0.00E+00	5.94E-08	
NOFLOW-SPC-ASX	16	1.00E+00 ( 6.5)	2.11E-08 ( 45.0)			

NOFLOW-CSS-A7A	16	1.00E+00 ( 6.5)	2.11E-08 ( 45.0)	0.00E+00	5.94E-08
LAK14BRC-RCO-LFO	12	2.00E-02 ( 25.0)	2.11E-08 ( 48.0)	0.00E+00	5.94E-08
NOFLOW-SPC-85X	12	1.00E+00 ( 6.5)	2.11E-08 ( 48.0)	0.00E+00	5.94E-08
NOFLOW-CSS-87A	12	1.00E+00 ( 6.5)	2.11E-08 ( 48.0)	0.00E+00	5.94E-08
RHR018X-RTX-LFB	14	6.20E-03 ( 34.5)	1.64E-08 ( 50.0)	0.00E+00	7.55E-08
SC5F06BB-DENER	17	1.00E+00 ( 6.5)	9.06E-09 ( 51.0)	0.00E+00	3.07E-08
1E8235A-B-UUM	14	1.00E-04 (156.5)	8.83E-09 ( 52.5)	0.00E+00	3.07E-08
1E41YA-V-UUM	14	1.00E-04 (156.5)	8.83E-09 ( 52.5)	0.00E+00	3.07E-08
RHR028B-P-UUM	14	3.00E-03 ( 42.5)	7.92E-09 ( 54.0)	0.00E+00	1.84E-08
NOFLOW-PHR-A1	13	1.00E+00 ( 6.5)	6.74E-09 ( 55.0)	0.00E+00	1.51E-08
RHR30TAX-STR	12	1.10E-04 (147.5)	6.60E-09 ( 56.0)	0.00E+00	3.43E-08
1E8235XA-BCO-LF	21	7.20E-05 (174.5)	5.83E-09 ( 57.0)	0.00E+00	3.44E-08
1E8235YA-BCO-LF	13	7.20E-05 (174.5)	5.78E-09 ( 58.0)	0.00E+00	3.42E-08
1E835Y2X-BCO-LF	3	7.20E-05 (174.5)	5.69E-09 ( 59.0)	0.00E+00	3.42E-08
LAK3ARCA-RCO-LFO	15	3.40E-03 ( 36.5)	4.70E-09 ( 60.0)	0.00E+00	1.91E-08
LAK3BRCB-RCO-LFO	11	3.40E-03 ( 36.5)	4.70E-09 ( 61.0)	0.00E+00	1.91E-08
RHR0038-P-UUM	11	3.00E-03 ( 42.5)	4.15E-09 ( 62.0)	0.00E+00	9.35E-09
FA-7-1-27H	7	2.10E-03 ( 70.0)	4.15E-09 ( 63.0)	0.00E+00	9.35E-09
RA-5V-1-2H	163	2.10E-03 ( 70.0)	4.07E-09 ( 64.0)	0.00E+00	1.80E-08
C2D601P-P-UUM	7	3.00E-03 ( 42.5)	4.06E-09 ( 65.5)	0.00E+00	7.62E-08
RHR028B-P-UUM	7	3.00E-03 ( 42.5)	4.06E-09 ( 65.5)	0.00E+00	1.62E-08
LAK9ACP3-LFOO	8	2.90E-03 ( 50.0)	3.92E-09 ( 68.0)	0.00E+00	1.08E-08
LAK18ACP1-LFOO	8	2.90E-03 ( 50.0)	3.92E-09 ( 68.0)	0.00E+00	1.08E-08
LAK10ACP9-LFOO	8	2.90E-03 ( 50.0)	3.92E-09 ( 68.0)	0.00E+00	1.08E-08
LAK96CP3-LFOO	7	2.90E-03 ( 50.0)	3.92E-09 ( 70.5)	0.00E+00	1.08E-08
LAK188CP1-LFOO	7	2.90E-03 ( 50.0)	3.92E-09 ( 70.5)	0.00E+00	1.08E-08
CSC03008-PLG-LF	30	1.20E-03 ( 75.0)	3.61E-09 ( 72.0)	0.00E+00	1.21E-08
RHR8018B-BOO-CC	7	2.50E-03 ( 61.0)	3.38E-09 ( 74.0)	0.00E+00	9.79E-09
SEVY03CB-FMS-CC	7	2.50E-03 ( 61.0)	3.38E-09 ( 74.0)	0.00E+00	9.79E-09
C2D601P-PMS-CC	7	2.50E-03 ( 61.0)	3.38E-09 ( 74.0)	0.00E+00	9.79E-09
CE8000TP-BCO-LF	3	8.40E-05 (162.5)	3.38E-09 ( 76.0)	0.00E+00	2.05E-08
LAK93ACP3-LFCC	8	2.90E-03 ( 50.0)	2.99E-09 ( 77.0)	0.00E+00	7.16E-09
LAK93BCP3-LFCC	7	2.90E-03 ( 50.0)	2.99E-09 ( 78.0)	0.00E+00	7.15E-09
C2D601P-PMS-LF	14	1.10E-03 ( 78.5)	2.91E-09 ( 79.5)	0.00E+00	1.56E-08
RHR028B-PMS-LF	14	1.10E-03 ( 78.5)	2.91E-09 ( 79.5)	0.00E+00	1.56E-08
1E81Y22X-BCO	2	7.20E-05 (174.5)	2.81E-09 ( 81.5)	0.00E+00	1.70E-08
1E821YX-BCO-LF	2	7.20E-05 (174.5)	2.81E-09 ( 81.5)	0.00E+00	1.70E-08
1E821YX-BCO-LF	1	7.20E-05 (174.5)	2.80E-09 ( 83.5)	0.00E+00	1.70E-08
1E82Y22X-BCO	1	7.20E-05 (174.5)	2.80E-09 ( 83.5)	0.00E+00	1.70E-08
CSCF068A-VCC-CC	8	2.50E-03 ( 61.0)	2.58E-09 ( 85.5)	0.00E+00	5.39E-09
RHR48AA-V00-CC	8	2.50E-03 ( 61.0)	2.58E-09 ( 85.5)	0.00E+00	5.39E-09
CSCF068B-VCC-CC	7	2.50E-03 ( 61.0)	2.58E-09 ( 87.5)	0.00E+00	5.39E-09
RHR488B-V00-CC	7	2.50E-03 ( 61.0)	2.58E-09 ( 87.5)	0.00E+00	5.39E-09
1E32Y8-V-UUM	18	1.00E-04 (156.5)	2.44E-09 ( 89.0)	0.00E+00	5.76E-09
C2D601F-PLG-LF	21	5.80E-04 ( 92.5)	1.54E-09 ( 90.0)	0.00E+00	4.88E-09
RHR8018B-BOO-LF	13	5.00E-04 (100.0)	1.32E-09 ( 92.0)	0.00E+00	3.49E-09
CSCF068B-VCC-LF	13	5.00E-04 (100.0)	1.32E-09 ( 92.0)	0.00E+00	4.49E-09
RHR488B-V00-LF	13	5.00E-04 (100.0)	1.32E-09 ( 92.0)	0.00E+00	4.49E-09
SEVY03AX-ACK-LF1	6	8.40E-04 ( 81.5)	1.13E-09 ( 94.0)	0.00E+00	2.47E-09
EE-CSC03008-PLG	5	7.20E-04 ( 84.0)	1.00E-09 ( 95.0)	0.00E+00	3.47E-09
EE-C2D601F-PLG	4	7.20E-04 ( 84.0)	1.00E-09 ( 96.0)	0.00E+00	3.47E-09
AP040K4CP1-LFCC	1	6.40E-04 ( 88.5)	8.32E-10 ( 99.5)	0.00E+00	4.33E-09

AP037X4CP1-LFCO	1	6.60E-04 ( 88.5)	8.32E-10 ( 99.5)	0.00E+00	4.33E-09
LAK3ARCXCP1-LFCO	1	6.60E-04 ( 88.5)	8.32E-10 ( 99.5)	0.00E+00	4.33E-09
LAK3BRXCPC1-LFCO	1	6.60E-04 ( 88.5)	8.32E-10 ( 99.5)	0.00E+00	4.33E-09
LAK288XCP4-LFCO	1	6.60E-04 ( 88.5)	8.32E-10 ( 99.5)	0.00E+00	4.33E-09
LAK28ACXCP4-LFCO	3	2.50E-03 ( 61.0)	8.03E-10 (103.5)	0.00E+00	1.79E-09
LPCI -PMS-CM	3	1.10E-01 ( 15.0)	8.03E-10 (103.5)	0.00E+00	1.79E-09
LPCI -BETA	1	5.40E-04 ( 94.5)	6.80E-10 (105.5)	0.00E+00	3.84E-09
NWVY01CA-FMS-LF	1	5.40E-04 ( 94.5)	6.80E-10 (105.5)	0.00E+00	3.84E-09
SEVY03CB-FMS-LF	1	5.00E-04 (100.0)	6.30E-10 (108.0)	0.00E+00	2.40E-09
2DG1PK18-ROO-LFO	1	5.00E-04 (100.0)	6.30E-10 (108.0)	0.00E+00	3.18E-09
NWVY01CA-F-UUM	1	5.00E-04 (100.0)	6.30E-10 (108.0)	0.00E+00	3.18E-09
SEVY03CB-F-UUM	1	5.00E-04 (100.0)	6.30E-10 (108.0)	0.00E+00	3.18E-09
HLOSP	28	1.00E+00 ( 6.5)	5.32E-10 (110.0)	0.00E+00	1.21E-09
LAK70ARA-ROO-LFO	1	2.00E-02 ( 25.0)	5.04E-10 (112.5)	0.00E+00	1.21E-09
LAK70BRB-ROO-LFO	1	2.00E-02 ( 25.0)	5.04E-10 (112.5)	0.00E+00	1.21E-09
LAK28RCB-RCO-LFO	1	2.00E-02 ( 25.0)	5.04E-10 (112.5)	0.00E+00	1.21E-09
LAK2ARCA-RCO-LFO	1	2.00E-02 ( 25.0)	5.04E-10 (112.5)	0.00E+00	1.21E-09
LPCI-MOV-BETA	6	3.00E-02 ( 16.0)	4.38E-10 (115.0)	0.00E+00	1.14E-09
NOFLOW-RHR-BT	8	1.00E+00 ( 6.5)	4.29E-10 (116.0)	0.00E+00	9.98E-10
PC02AAK-OO-LFO	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	2.77E-09
NWVY01AX-A-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
CSCF0688-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	9.98E-10
2DG01PSC-000-LFO	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	9.98E-10
2DG01PK18CA-LFCO	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
CSCF008A-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	2.77E-09
CSCD300B-S-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF658B-N-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF608B-S-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	2.77E-09
CSCD300A-S-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
SEVY03AX-A-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
SCSF068B-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
SCSF06AA-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	2.77E-09
RHRH01BX-H-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	2.77E-09
RHRH01AX-H-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF808X-R-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF88AX-R-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF878B-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF87AA-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF748B-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF74AA-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF65AA-N-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF648B-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF66AA-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF60AA-S-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF558X-R-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF55AX-R-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF51AA-N-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
CZJG01F-S-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	2.77E-09
RHRF488B-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF48AA-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF478B-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09
RHRF47AA-V-UUM	1	3.00E-04 (124.0)	3.78E-10 (134.0)	0.00E+00	1.33E-09

RHRF51BB-N-UUM	1	3.00E-04	(124.0)	3.78E-10	(134.0)	0.00E+00	1.33E-09
CDDG01F-S-UUM	1	3.00E-04	(124.0)	3.78E-10	(134.0)	0.00E+00	2.77E-09
LCSC002A-ZUM-1	1	3.30E-04	(105.5)	3.17E-10	(152.5)	0.00E+00	6.87E-11
RHRC003B-RUM-1	1	3.30E-04	(105.5)	3.17E-10	(152.5)	0.00E+00	6.87E-10
TEB422B-BCD-LF	16	7.20E-05	(174.5)	3.07E-10	(154.0)	0.00E+00	9.97E-10
RHR301B-X-STR	7	1.10E-04	(147.5)	2.90E-10	(155.0)	0.00E+00	1.33E-09
1EB412A-BCD-LF	12	7.20E-05	(174.5)	2.25E-10	(156.0)	0.00E+00	6.97E-10
LPCI-MOV-CM2	3	2.50E-03	( 61.0)	2.19E-10	(157.5)	0.00E+00	5.70E-10
LPCI-MOV-CM1	3	2.50E-03	( 61.0)	2.19E-10	(157.5)	0.00E+00	5.74E-10
TDRFP-1-OE-27H	216	2.60E-03	( 54.0)	2.04E-10	(159.0)	0.00E+00	2.27E-10
1EDC20EP-FRP-27H	6	3.20E-03	( 38.0)	1.85E-10	(160.0)	0.00E+00	3.71E-10
1EB30YB-B-UUM	18	1.00E-04	(156.5)	1.79E-10	(161.0)	0.00E+00	7.04E-10
DG2A-GEN-LF-FTS	8	2.50E-02	( 17.5)	1.74E-10	(162.0)	0.00E+00	4.33E-10
LAS448X-GCO-LFO	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	6.90E-10
LAS44AX-GCO-LFO	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	6.90E-10
RHcF98X-XOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
RHRF98X-XOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
RHRF78B-VOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
RHRF77AA-VOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
RHRF04BB-VOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
RHRF04AA-VOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
RHRF03BB-VOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
RHRF03AA-VOC-LF	1	1.10E-04	(147.5)	1.39E-10	(167.5)	0.00E+00	7.20E-10
DG2A-GEN-LF-FTR	8	1.90E-02	( 32.5)	1.33E-10	(173.0)	0.00E+00	1.51E-10
DG0-GEN-LF-FTS	6	2.50E-02	( 17.5)	1.28E-10	(174.0)	0.00E+00	3.15E-10
CCB20G1P-BCO-LF	2	8.40E-05	(162.5)	1.13E-10	(175.0)	0.00E+00	4.82E-10
DG0-GEN-LF-FTR	6	1.90E-02	( 32.5)	9.73E-11	(176.0)	0.00E+00	1.08E-10
SEV8001X-BCO-LF	2	7.20E-05	(174.5)	9.66E-11	(177.5)	0.00E+00	3.76E-10
1EB2Y4X-BCO	2	7.20E-05	(174.5)	9.66E-11	(177.5)	0.00E+00	3.76E-10
1EB1Y1X-BCO	3	7.20E-05	(174.5)	9.07E-11	(179.0)	0.00E+00	3.45E-10
HWB001X-BCO-LF	1	7.20E-05	(174.5)	9.07E-11	(180.0)	0.00E+00	3.45E-10
CCBF068A-BCO-LF	3	8.40E-05	(162.5)	8.59E-11	(181.0)	0.00E+00	2.61E-10
CSCR068X-BCO-LF	2	8.40E-05	(162.5)	8.59E-11	(182.0)	0.00E+00	2.61E-10
CSCD300B-BF-CC	1	1.20E-03	( 75.0)	1.09E-12	(183.0)	0.00E+00	2.74E-12



SEQUENCE T18  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		
				INCREASE	(RANK)	LOWER 5% UPPER 5%
1EB236B-BCO-LF	120	7.20E-05	(174.5)	2.46E-02	( 1.0)	0.00E+00 2.10E-01
1E42YB-V-UUM	19	1.00E-04	(156.5)	1.24E-03	( 2.0)	0.00E+00 8.67E-03
1EB235A-BCO-LF	118	7.20E-05	(174.5)	9.86E-04	( 3.0)	0.00E+00 7.75E-03
1EB236B-B-UUM	18	1.00E-04	(156.5)	8.54E-04	( 4.0)	0.00E+00 4.10E-03
1EB36YB-BCO-LF	120	7.20E-05	(174.5)	7.67E-04	( 5.0)	0.00E+00 6.50E-03
1EB36Y1X-BCO-LF	2	7.20E-05	(174.5)	6.39E-04	( 6.5)	0.00E+00 5.25E-03
1EB36XB-BCO-LF	2	7.20E-05	(174.5)	6.39E-04	( 6.5)	0.00E+00 5.25E-03
1EB16211-BCO	3	8.40E-05	(162.5)	6.00E-04	( 8.0)	0.00E+00 4.85E-03
1EB16212-BCO	2	8.40E-05	(162.5)	6.00E-04	( 9.0)	0.00E+00 4.85E-03
CSCD300A-PLG-LF	33	1.20E-03	( 75.0)	1.83E-04	(10.0)	0.00E+00 1.49E-03
RA-1-1-27H	334	2.10E-03	( 70.0)	9.88E-05	(11.0)	0.00E+00 6.60E-04
1E41YA-V-UUM	14	1.00E-04	(156.5)	8.83E-05	(12.5)	0.00E+00 5.50E-04
1EB215XA-B-UUM	14	1.00E-04	(156.5)	8.83E-05	(12.5)	0.00E+00 5.50E-04
1EB215XA-BCO-LF	21	7.20E-05	(174.5)	8.09E-05	(14.0)	0.00E+00 5.32E-04
1EB235YA-BCO-LF	13	7.20E-05	(174.5)	8.03E-05	(15.0)	0.00E+00 5.34E-04
1EB35Y2X-BCO-LF	3	7.20E-05	(174.5)	7.90E-05	(16.0)	0.00E+00 5.28E-04
RA-2-11-27H	141	1.60E-03	( 73.0)	6.93E-05	(17.0)	0.00E+00 4.89E-04
RHR301AX-STR	12	1.10E-04	(147.5)	6.00E-05	(18.0)	0.00E+00 4.13E-04
CODG01F-PLG-LF	23	5.80E-04	( 92.5)	6.00E-05	(20.5)	0.00E+00 4.13E-04
RHRB01AA-BOO-LF	16	5.00E-04	(100.0)	6.00E-05	(20.5)	0.00E+00 4.13E-04
RHRF48AA-VOO-LF	16	5.00E-04	(100.0)	6.00E-05	(20.5)	0.00E+00 4.13E-04
CSCF068A-VCC-LF	16	5.00E-04	(100.0)	6.00E-05	(20.5)	0.00E+00 4.13E-04
CODG01P-PMS-LF	17	1.10E-03	( 78.5)	5.99E-05	(23.5)	0.00E+00 4.13E-04
RHRC02AA-PMS-LF	17	1.10E-03	( 78.5)	5.99E-05	(23.5)	0.00E+00 4.13E-04
LCSC002A-P-UUM	17	3.00E-03	( 42.5)	5.98E-05	(25.5)	0.00E+00 4.12E-04
RHRC02AA-P-UUM	17	3.00E-03	( 42.5)	5.98E-05	(25.5)	0.00E+00 4.12E-04
RHRH01AX-HTX-LFB	17	6.20E-03	( 34.5)	5.96E-05	(27.0)	0.00E+00 3.69E-04
EE-CSCD300A-PLG	2	7.20E-04	( 84.0)	5.52E-05	(28.0)	0.00E+00 4.84E-04
RA-MSLDV-1-2H	169	2.10E-03	( 70.0)	4.80E-05	(29.0)	0.00E+00 3.85E-04
CODG01P-PMS-CC	8	2.50E-03	( 61.0)	4.54E-05	(31.0)	0.00E+00 2.91E-04
NWVY01CA-FMS-CC	8	2.50E-03	( 61.0)	4.54E-05	(31.0)	0.00E+00 2.91E-04
RHRB01AA-BOO-CC	8	2.50E-03	( 61.0)	4.54E-05	(31.0)	0.00E+00 2.91E-04
CODG01P-P-UUM	8	3.00E-03	( 42.5)	4.54E-05	(33.5)	0.00E+00 2.91E-04
RHRC02AA-P-NDUUM	8	3.00E-03	( 42.5)	4.54E-05	(33.5)	0.00E+00 2.91E-04
CCB0D61P-BCO-LF	3	8.40E-05	(162.5)	4.02E-05	(35.0)	0.00E+00 2.68E-04
NWVY01AX-ACX-LFI	6	8.40E-04	( 81.5)	4.02E-05	(36.0)	0.00E+00 2.68E-04
1EB1Y22X-BCO	2	7.20E-05	(174.5)	3.90E-05	(37.5)	0.00E+00 2.61E-04
1EB211YX-BCO-LF	2	7.20E-05	(174.5)	3.90E-05	(37.5)	0.00E+00 2.61E-04
1EB212YX-BCO-LF	1	7.20E-05	(174.5)	3.89E-05	(39.5)	0.00E+00 2.61E-04
1EB2Y22X-BCO	1	7.20E-05	(174.5)	3.89E-05	(39.5)	0.00E+00 2.61E-04
1E36YB-V-UUM	18	1.00E-04	(156.5)	2.44E-05	(41.0)	0.00E+00 1.07E-04
OPFA1L-VENT-2H	260	2.10E-03	( 70.0)	2.07E-05	(42.0)	0.00E+00 1.51E-04
SUR-003-L	896	1.60E-01	( 14.0)	1.42E-05	(43.0)	0.00E+00 4.67E-05
1EB422B-BCO-LF	16	7.20E-05	(174.5)	4.26E-06	(44.0)	0.00E+00 2.21E-05
1EB412A-BCO-LF	12	7.20E-05	(174.5)	3.13E-06	(45.0)	0.00E+00 1.48E-05

CSCD3008-PLG-LF	30	1.20E-03 ( 75.0)	3	01E-06 ( 46.0)	0.00E+00	1.87E-05
C2D001F-PLG-LF	21	5.80E-04 ( 92.5)	2	65E-06 ( 47.0)	0.00E+00	1.61E-05
RHR0018X-STR	7	1.10E-04 (147.5)	2	64E-06 ( 48.0)	0.00E+00	1.61E-05
RHR0188-R00-LF	13	5.00E-04 (100.0)	2	64E-06 ( 50.0)	0.00E+00	1.61E-05
CSC0608-VCC-LF	13	5.00E-04 (100.0)	2	64E-06 ( 50.0)	0.00E+00	1.61E-05
RHR4888-V00-LF	13	5.00E-04 (100.0)	2	64E-06 ( 50.0)	0.00E+00	1.61E-05
C2D001P-PMS-LF	14	1.10E-03 ( 78.5)	2	64E-06 ( 52.5)	0.00E+00	1.61E-05
RHR0288-P-UUM	14	1.10E-03 ( 78.5)	2	64E-06 ( 54.0)	0.00E+00	1.60E-05
RHR018X-HTX-LFB	14	3.00E-03 ( 42.5)	2	63E-06 ( 54.0)	0.00E+00	1.60E-05
RA-7-1-2TH	7	6.20E-03 ( 34.5)	2	62E-06 ( 55.0)	0.00E+00	1.60E-05
RA-5V-1-2H	163	2.10E-03 ( 70.0)	1	97E-06 ( 56.0)	0.00E+00	9.51E-06
TE8361B-B-UUM	18	1.00E-04 (56.5)	1	93E-06 ( 57.0)	0.00E+00	1.42E-05
LAK18AR-R00-LFO	58	2.00E-02 ( 25.0)	1	79E-06 ( 58.0)	0.00E+00	6.03E-06
LAK0ARCA-R00-LFO	58	2.00E-02 ( 25.0)	1	79E-06 ( 59.0)	0.00E+00	1.17E-05
LAK10RCA-R00-LFO	58	2.00E-02 ( 25.0)	1	67E-06 ( 60.5)	0.00E+00	1.09E-05
LAK188R-R00-LFO	52	2.00E-02 ( 25.0)	1	67E-06 ( 62.5)	0.00E+00	1.09E-05
LAK188R-R00-LFO	52	2.00E-02 ( 25.0)	1	67E-06 ( 62.5)	0.00E+00	1.09E-05
EE-CSCD3008-PLG	5	7.20E-04 ( 84.0)	1	39E-06 ( 64.0)	0.00E+00	8.17E-06
EE-C2D001F-PLG	4	7.20E-04 ( 84.0)	1	39E-06 ( 65.0)	0.00E+00	8.17E-06
RHR0038-P-UUM	11	3.00E-03 ( 42.5)	1	39E-06 ( 66.0)	0.00E+00	8.25E-06
LAK3ARCA-R00-LFO	11	3.40E-03 ( 36.5)	1	38E-06 ( 67.0)	0.00E+00	8.20E-06
LAK3BRCA-R00-LFO	11	3.40E-03 ( 36.5)	1	38E-06 ( 68.0)	0.00E+00	8.27E-06
*80188-R00-CC	7	2.50E-03 ( 61.0)	1	35E-06 ( 70.0)	0.00E+00	8.16E-06
C2D001P-PMS-CC	7	2.50E-03 ( 61.0)	1	35E-06 ( 70.0)	0.00E+00	8.16E-06
DEVVTCB-FMS-CC	8	2.90E-03 ( 50.0)	1	35E-06 ( 73.0)	0.00E+00	8.16E-06
LAK0-LFO	8	2.90E-03 ( 50.0)	1	35E-06 ( 73.0)	0.00E+00	8.16E-06
LA _P1-LFO	8	2.90E-03 ( 50.0)	1	35E-06 ( 75.0)	0.00E+00	8.16E-06
LAK JACP9-LFO	8	2.90E-03 ( 50.0)	1	35E-06 ( 75.0)	0.00E+00	8.16E-06
LAK188CP1-LFO	7	2.90E-03 ( 50.0)	1	35E-06 ( 75.5)	0.00E+00	8.16E-06
LAK98CP3-LFO	7	2.90E-03 ( 50.0)	1	35E-06 ( 75.5)	0.00E+00	8.16E-06
C2D001P-P-UUM	7	3.00E-03 ( 42.5)	1	35E-06 ( 77.5)	0.00E+00	8.16E-06
RHR0288-P-UUM	7	3.00E-03 ( 42.5)	1	35E-06 ( 77.5)	0.00E+00	8.16E-06
TE82V4X-BCD	2	7.20E-05 (174.5)	1	34E-06 ( 79.5)	0.00E+00	8.16E-06
SEVB001X-BCD-LF	2	7.20E-05 (174.5)	1	34E-06 ( 79.5)	0.00E+00	8.16E-06
CC82061P-BCD-LF	2	8.40E-05 (162.5)	1	34E-06 ( 81.0)	0.00E+00	8.16E-06
SEV003AK-ACK-LF1	6	8.40E-04 ( 81.5)	1	34E-06 ( 82.0)	0.00E+00	8.16E-06
LAK03AR-R00-LFO	54	2.00E-02 ( 25.0)	1	27E-06 ( 83.0)	0.00E+00	6.32E-06
LAK93ARC-R00-LFO	48	2.00E-02 ( 25.0)	1	27E-06 ( 84.0)	0.00E+00	6.31E-06
TE81Y1X-BCD	3	7.20E-05 (174.5)	1	26E-06 ( 85.0)	0.00E+00	7.58E-06
NM6001X-BCD-LF	1	7.20E-05 (174.5)	1	26E-06 ( 86.0)	0.00E+00	7.58E-06
RHR0488-VCC-LF	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
RHR988X-VCC-LF	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
LAS448X-CCD-LFO	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
LAS44AX-CCD-LFO	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
RHR982X-VCC-LF	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
RHR478B-VCC-LF	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
RHR47AA-VCC-LF	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
RHR03BB-VCC-LF	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
RHR03AA-VCC-LF	1	1.10E-04 (147.5)	1	26E-06 ( 91.5)	0.00E+00	7.57E-06
PC02AAK-A00-LFO	1	3.00E-04 (124.0)	1	26E-06 (114.0)	0.00E+00	7.57E-06

ZDGO1PSC-000-LFO	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
NWY01AX-A-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
CSCF068B-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
ZDGP* 118CA-LFOO	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
CSA 78* UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
CSC03C UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT658B-N-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
CSC0300A-S-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT878B-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
SEVY03AX-A-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT608B-S-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
SCSF068B-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
SCSF06AA-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHR4018X-H-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHR401AX-H-UUM*	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT888X-R-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT88AX-R-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT87AA-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT748B-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT74AA-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT518B-N-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT65AA-N-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT648B-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT64AA-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT60AA-S-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT558X-R-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT55AX-R-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT51AA-N-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
C2D001F-S-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT488B-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT48AA-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT478B-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
RHRT47AA-V-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
C00G01F-S-UUM	1	3.00E-04	(124.0)	1.26E-06	(114.0)	0.00E+00	7.57E-06
ZDG1PK18-R00-LFO	1	5.00E-04	(100.0)	1.26E-06	(133.0)	0.00E+00	7.57E-06
NWY01CA-F-UUM	1	5.00E-04	(100.0)	1.26E-06	(133.0)	0.00E+00	7.57E-06
SEVY03CB-F-UUM	1	5.00E-04	(100.0)	1.26E-06	(133.0)	0.00E+00	7.57E-06
NWY01CA-FMS-LF	1	5.40E-04	( 94.5)	1.26E-06	(135.5)	0.00E+00	7.57E-06
SEVY03CB-FMS-LF	1	5.40E-04	( 94.5)	1.26E-06	(135.5)	0.00E+00	7.57E-06
AP04DX4CP1-LFCC	1	6.60E-04	( 88.5)	1.26E-06	(139.5)	0.00E+00	7.57E-06
AP037X4CP1-LFCC	1	6.60E-04	( 88.5)	1.26E-06	(139.5)	0.00E+00	7.57E-06
LAK3BRCKCP1-LFCC	1	6.60E-04	( 88.5)	1.26E-06	(139.5)	0.00E+00	7.57E-06
LAK3ARCKCP1-LFCC	1	6.60E-04	( 88.5)	1.26E-06	(139.5)	0.00E+00	7.57E-06
LAK28BCKP4-LFCC	1	6.60E-04	( 88.5)	1.26E-06	(139.5)	0.00E+00	7.57E-06
LAK28ACKP4-LFCC	1	6.60E-04	( 88.5)	1.26E-06	(139.5)	0.00E+00	7.57E-06
LAK14ARC-R00-LFO	16	2.00E-02	( 25.0)	1.03E-06	(143.0)	0.00E+00	3.76E-06
LAK14BRC-R00-LFO	12	2.00E-02	( 25.0)	1.03E-06	(144.0)	0.00E+00	3.76E-06
CSCF068A-VCC-CC	8	2.50E-03	( 61.0)	1.03E-06	(145.5)	0.00E+00	3.64E-06
RHRT48AA-V00-CC	8	2.50E-03	( 61.0)	1.03E-06	(145.5)	0.00E+00	3.64E-06
CSCF068B-VCC-CC	7	2.50E-03	( 61.0)	1.03E-06	(147.5)	0.00E+00	3.63E-06
RHRT488B-V00-CC	7	2.50E-03	( 61.0)	1.03E-06	(147.5)	0.00E+00	3.63E-06
LAK23ACP3-LFCC	8	2.90E-03	( 50.0)	1.03E-06	(149.0)	0.00E+00	3.57E-06

LAK938CP3-LFCC	7	2.90E-03	( 50.0)	1.03E-06	(150.0)	0.00E+00	3.57E-06
CCBF06BA-BCO-LF	3	8.40E-05	(162.5)	1.02E-06	(151.0)	0.00E+00	3.58E-06
CCBF06BA-BCO-LF	2	8.40E-05	(162.5)	1.02E-06	(152.0)	0.00E+00	3.58E-06
LC50002A-RUM-1	1	3.30E-04	(105.5)	9.80E-07	(153.5)	0.00E+00	3.44E-06
RHR0003B-RUM-1	1	3.30E-04	(105.5)	9.80E-07	(153.5)	0.00E+00	3.44E-06
CONT-LEAK	896	7.50E-01	( 13.0)	9.02E-07	(155.0)	0.00E+00	0.00E+00
LPCI-PMS-CM	3	2.50E-03	( 61.0)	3.20E-07	(156.0)	0.00E+00	1.91E-06
LPCI-MOV-DW2	3	2.50E-03	( 61.0)	8.74E-08	(157.5)	0.00E+00	4.64E-07
LPCI-MOV-CM1	3	2.50E-03	( 61.0)	8.74E-08	(157.5)	0.00E+00	4.64E-07
TDRFF-1-GE-27H	216	2.60E-03	( 54.0)	7.82E-08	(159.0)	0.00E+00	2.52E-07
1EDC2DEP-FRP-27H	6	3.20E-03	( 38.0)	5.76E-08	(160.0)	0.00E+00	1.66E-07
LAK70B8B-R00-LFO	1	2.00E-02	( 25.0)	2.47E-08	(162.5)	0.00E+00	9.46E-08
LAK70B8A-R00-LFO	1	2.00E-02	( 25.0)	2.47E-08	(162.5)	0.00E+00	9.46E-08
LAK2BRCB-R00-LFO	1	2.00E-02	( 25.0)	2.47E-08	(162.5)	0.00E+00	9.46E-08
LAK2ARCA-R00-LFO	1	2.00E-02	( 25.0)	2.47E-08	(162.5)	0.00E+00	9.46E-08
LPCI-MOV-BETA	6	3.00E-02	( 16.0)	1.42E-08	(165.0)	0.00E+00	3.97E-08
DG2A-GEN-LF-FTR	6	1.90E-02	( 32.5)	6.84E-09	(166.0)	0.00E+00	2.62E-08
DG2A-GEN-LF-FTS	8	2.50E-02	( 17.5)	6.80E-09	(167.0)	0.00E+00	2.58E-08
LPCI-BETA	3	1.10E-01	( 15.0)	6.50E-09	(168.0)	0.00E+00	1.81E-08
DG0-GEN-LF-FTR	6	1.90E-02	( 32.5)	5.02E-09	(169.0)	0.00E+00	1.89E-08
DG0-GEN-LF-FTS	6	2.50E-02	( 17.5)	4.99E-09	(170.0)	0.00E+00	1.93E-08
CSC0309B-BF-CC	1	1.20E-03	( 75.0)	9.04E-10	(171.0)	0.00E+00	3.25E-09
RA-NONE	156	1.00E+00	( 6.5)	0.00E+00	(177.5)		
NOFLOW-SPC-B5X	12	1.00E+00	( 6.5)	0.20E+00	(177.5)		
NOFLOW-SPC-ASX	16	1.00E+00	( 6.5)	0.00E+00	(177.5)		
NOFLOW-RHR-B1	8	1.00E+00	( 6.5)	0.00E+00	(177.5)		
NOFLOW-RHR-A1	13	1.00E+00	( 6.5)	0.00E+00	(177.5)		
NOFLOW-CSS-B7A	12	1.00E+00	( 6.5)	0.00E+00	(177.5)		
NOFLOW-CSS-A7A	16	1.00E+00	( 6.5)	0.00E+00	(177.5)		
NLOSP	28	1.00E+00	( 6.5)	0.00E+00	(177.5)		
SC6F06BB-DENER	17	1.00E+00	( 6.5)	0.00E+00	(177.5)		
SC5F06AA-DENER	20	1.00E+00	( 6.5)	0.00E+00	(177.5)		
FLOW-RHR-B3	76	1.00E+00	( 6.5)	0.00E+00	(177.5)		
FLOW-RHR-A3	87	1.00E+00	( 6.5)	0.00E+00	(177.5)		

SEQUENCE T1B  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE E - NT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
SUR-003-L	896	1.60E-01 ( 14.0)	76.2	( 1.0)	NA	0.50
CONT-LEAK	896	7.50E-01 ( 13.0)	7.7	( 2.0)	NA	0.75
RHRH01BX-H-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
SEVY03AX-A-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
RHRH01AX-H-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
C2D0G01F-S-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
CSCD300A-S-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
NWVY01AX-A-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
CSCD300B-S-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
C0D0G01F-S-UUM	1	3.00E-04 (124.0)	5.5	( 6.5)	NA	1.00
RHRH01AX-HTX-LFB	17	6.20E-03 ( 34.5)	4.3	(11.5)	NA	0.90
RHRH01BX-HTX-LFB	14	6.20E-03 ( 34.5)	4.3	(11.5)	NA	0.90
1E41YA-V-UUM	14	1.00E-04 (156.5)	4.1	(15.5)	NA	1.03
1E8236B-B-UUM	18	1.00E-04 (156.5)	4.1	(15.5)	NA	1.03
1E8235A-B-UUM	14	1.00E-04 (156.5)	4.1	(15.5)	NA	1.03
1E836YB-B-UUM	18	1.00E-04 (156.5)	4.1	(15.5)	NA	1.03
1E36YB-V-UUM	18	1.00E-04 (156.5)	4.1	(15.5)	NA	1.03
1E42YB-V-UUM	19	1.00E-04 (156.5)	4.1	(15.5)	NA	1.03
CCBF068A-BCO-LF	3	8.40E-05 (162.5)	3.5	(21.5)	NA	1.02
1EB16211-BCD	3	8.40E-05 (162.5)	3.5	(21.5)	NA	1.02
CCB2D0G1P-BCO-LF	2	8.40E-05 (162.5)	3.5	(21.5)	NA	1.02
CCB0D0G1P-BCO-LF	3	8.40E-05 (162.5)	3.5	(21.5)	NA	1.02
CSCB068X-BCO-LF	2	8.40E-05 (162.5)	3.5	(21.5)	NA	1.02
1EB16212-BCO	2	8.40E-05 (162.5)	3.5	(21.5)	NA	1.02
1EB212YX-BCO-LF	1	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB36Y1X-BCO-LF	2	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB235XA-BCO-LF	21	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB1Y1X-BCO	3	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB36YB-BCO-LF	120	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB35Y2X-BCO-LF	3	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB412A-BCO-LF	12	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB235YA-BCO-LF	13	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB36XB-BCO-LF	2	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB236B-BCO-LF	120	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
SEVB001X-BCO-LF	2	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
NWVB001X-BCO-LF	1	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB2Y4X-BCO	2	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB235A-BCO-LF	118	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB422B-BCO-LF	16	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB1Y22X-BCO	2	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB2Y22X-BCO	1	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
1EB211YX-BCO-LF	2	7.20E-05 (174.5)	3.4	(33.5)	NA	1.12
EE-CSCD300A-PLG	2	7.20E-04 ( 84.0)	3.1	(44.0)	NA	1.01
EE-CSCD300B-PLG	5	7.20E-04 ( 84.0)	3.1	(44.0)	NA	1.01
EE-C2D0G01F-PLG	4	7.20E-04 ( 84.0)	3.1	(44.0)	NA	1.01

NWVY01AX-ACX-LFI	6	8.40E-04	( 81.5)	3.0	( 46.5)	NA	1.00
SEVY03AX-ACX-LFI	6	8.40E-04	( 81.5)	3.0	( 46.5)	NA	1.00
DGO-GEN-LF-FTS	6	2.50E-02	( 17.5)	2.1	( 48.5)	NA	1.00
DG2A-GEN-LF-FTS	8	2.50E-02	( 17.5)	2.1	( 46.5)	NA	1.00
RHRC02BB-PMS-LF	14	1.10E-03	( 78.5)	2.1	( 51.5)	NA	1.00
C0DG01P-PMS-LF	17	1.10E-03	( 78.5)	2.1	( 51.5)	NA	1.00
C2DG01P-PMS-LF	14	1.10E-03	( 78.5)	2.1	( 51.5)	NA	1.00
RHRC02AA-PMS-LF	17	1.10E-03	( 78.5)	2.1	( 51.5)	NA	1.00
LAK10RCA-ROO-LFO	58	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK18ARA-ROO-LFO	58	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK93BRC-ROO-LFO	48	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK9ARCA-ROO-LFO	58	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK70ARA-ROO-LFO	1	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK188RB-ROO-LFO	52	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK2BRCB-RCO-LFO	1	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK93ARC-ROO-LFO	54	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK7BRCB-RCO-LFO	52	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK2ARCA-RCO-LFO	1	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK70BRB-ROO-LFO	1	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK14BRC-RCO-LFO	12	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
LAK14ARC-RCO-LFO	16	2.00E-02	( 25.0)	2.0	( 60.0)	NA	1.04
NWVY01CA-F-UUM	1	5.00E-04	(100.0)	1.9	( 67.5)	NA	1.00
SEVY03CB-F-UUM	1	5.00E-04	(100.0)	1.9	( 67.5)	NA	1.00
LAS44BX-QCO-LFO	1	1.10E-04	(147.5)	1.9	( 69.5)	NA	1.00
LAS44AX-QCO-LFO	1	1.10E-04	(147.5)	1.9	( 69.5)	NA	1.00
C0DG01F-PLG-LF	23	5.80E-04	( 92.5)	1.9	( 71.5)	NA	0.98
C2DG01F-PLG-LF	21	5.80E-04	( 92.5)	1.9	( 71.5)	NA	0.98
CSCF06BB-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
CSCF00BA-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF51AA-N-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF51BB-N-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF60BB-S-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
SCSF06BB-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
SCSF06AA-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF88BX-R-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF88AX-R-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF87AA-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF74AA-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF64BB-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF74BB-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF64AA-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF60AA-S-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF55BX-R-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF55AX-R-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF65BB-N-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF87BB-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF48BB-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF48AA-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF47BB-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF47AA-V-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
RHRF65AA-N-UUM	1	3.00E-04	(124.0)	1.8	( 84.5)	NA	1.00
AP040X4CP1-LFCO	1	6.60E-04	( 88.5)	1.8	( 99.5)	NA	1.00

AP037X4CP1-LFCO	1	6.60E-04	( 88.5)	1.8	( 99.5)	NA	1.00
LAK3BRCKP1-LFCO	1	6.60E-04	( 88.5)	1.8	( 99.5)	NA	1.00
LAK3ARCXCP1-LFCO	1	6.60E-04	( 88.5)	1.8	( 99.5)	NA	1.00
LAK28BCKP4-LFCO	1	6.60E-04	( 88.5)	1.8	( 99.5)	NA	1.00
LAK28ACKP4-LFCO	1	6.60E-04	( 88.5)	1.8	( 99.5)	NA	1.00
1EDC2DEP-FRP-27H	6	3.20E-03	( 38.0)	1.5	(103.0)	NA	1.00
C2D001P-P-UUM	7	3.00E-03	( 42.5)	1.5	(105.5)	NA	0.83
C00G01P-P-UUM	8	3.00E-03	( 42.5)	1.5	(105.5)	NA	0.83
RHRC02BB-P-NDUUM	7	3.00E-03	( 42.5)	1.5	(105.5)	NA	0.83
RHRC02AA-P-NDUUM	8	3.00E-03	( 42.5)	1.5	(105.5)	NA	0.83
TORFP-1-DE-27H	216	2.7E-03	( 54.0)	1.5	(108.0)	NA	1.00
C5CD300B-PLG-LF	30	1.70E-03	( 75.0)	1.5	(110.0)	NA	0.96
C5CD300B-BF-CC	1	1.20E-03	( 75.0)	1.5	(110.0)	NA	0.96
C5CD300A-PLG-LF	33	1.20E-03	( 75.0)	1.5	(110.0)	NA	0.96
LCSC002A-RUM-1	1	3.30E-04	(105.5)	1.3	(112.5)	NA	1.00
RHRC003B-RUM-1	1	3.30E-04	(105.5)	1.3	(112.5)	NA	1.00
PC02AAAX-A00-LFO	1	3.00E-04	(124.0)	1.1	(115.0)	NA	1.00
ZD601PSC-000-LFO	1	3.00E-04	(124.0)	1.1	(115.0)	NA	1.00
ZD601PK18CA-LFOO	1	3.00E-04	(124.0)	1.1	(115.0)	NA	1.00
LAK9BCF3-LFOO	7	2.90E-03	( 50.0)	1.1	(120.0)	NA	1.01
LAK9ACP3-LFOO	8	2.90E-03	( 50.0)	1.1	(120.0)	NA	1.01
LAK93BCP3-LFCC	7	2.90E-03	( 50.0)	1.1	(120.0)	NA	1.01
LAK93ACP3-LFCC	8	2.90E-03	( 50.0)	1.1	(120.0)	NA	1.01
LAK18BCP1-LFOO	7	2.90E-03	( 50.0)	1.1	(120.0)	NA	1.01
LAK18ACP1-LFOO	8	2.90E-03	( 50.0)	1.1	(120.0)	NA	1.01
LAK10ACP9-LFOO	2	2.90E-03	( 50.0)	1.1	(120.0)	NA	1.01
NAVY01CA-FMS-LF	1	5.40E-04	( 94.5)	0.9	(124.5)	NA	1.00
SEVY03CB-FMS-LF	1	5.40E-04	( 94.5)	0.9	(124.5)	NA	1.00
RHR001BB-B00-LF	13	5.00E-04	(100.0)	0.0	(148.5)	NA	1.00
RHR015B-B00-CC	7	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
RHR01AA-B00-LF	16	5.00E-04	(100.0)	0.0	(148.5)	NA	1.00
RHR01AA-B00-CC	8	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
RHR301BX-STR	7	1.10E-04	(147.5)	0.0	(148.5)	NA	1.01
RHR301AX-STR	12	1.10E-04	(147.5)	0.0	(148.5)	NA	1.01
RA-MSLDV-1-2H	169	2.10E-03	( 70.0)	0.0	(148.5)	NA	1.00
RA-7-1-27H	7	2.10E-03	( 70.0)	0.0	(148.5)	NA	1.00
RA-5V-1-2H	163	2.10E-03	( 70.0)	0.0	(148.5)	NA	1.00
DG2A-GEN-LF-FTR	8	1.90E-02	( 32.5)	0.0	(148.5)	NA	1.00
RA-2-11-27H	141	1.60E-03	( 73.0)	0.0	(148.5)	NA	1.00
RA-1-1-27H	334	2.10E-03	( 70.0)	0.0	(148.5)	NA	1.00
OPFAIL-VENT-2H	260	2.10E-03	( 70.0)	0.0	(148.5)	NA	1.00
DG0-GEN-LF-FTR	6	1.90E-02	( 32.5)	0.0	(148.5)	NA	1.00
NAVY01CA-FMS-CC	8	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
CSCF068B-VCC-LF	13	5.00E-04	(100.0)	0.0	(148.5)	NA	1.00
ZD61PK18-R00-LFO	1	5.00E-04	(100.0)	0.0	(148.5)	NA	1.00
CSCF068B-VCC-CC	7	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
CSCF068A-VCC-LF	16	5.00E-04	(100.0)	0.0	(148.5)	NA	1.00
CSCF068A-VCC-CC	8	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
LPCI-FMS-CW	3	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
LPCI-MOV-CM2	3	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
LPCI-MOV-CM1	3	2.50E-03	( 61.0)	0.0	(148.5)	NA	1.00
LPCI-MOV-BETA	6	3.00E-02	( 16.0)	0.0	(148.5)	NA	1.00

LPIC1-BETA	3	1.10E-01	( 15.0)	0.0	(148.5)
LCSC002A-P-UJM	17	3.00E-03	( 42.5)	0.0	(148.5)
SEVY03CB-FMS-CC	7	2.50E-03	( 61.0)	0.0	(148.5)
RHF98BX-XOC-LF	1	1.10E-04	(147.5)	0.0	(148.5)
RHF98AX-XOC-LF	1	1.10E-04	(147.5)	0.0	(148.5)
LAK38RCB-RCO-LFO	11	3.40E-03	( 36.5)	0.0	(148.5)
LAK3ARCA-RCO-LFO	15	3.40E-03	( 36.5)	0.0	(148.5)
C20G01P-PMS-CC	7	2.50E-03	( 61.0)	0.0	(148.5)
RHF488B-VOC-LF	13	5.00E-04	(100.0)	0.0	(148.5)
RHF488B-VOC-CC	7	2.50E-03	( 61.0)	0.0	(148.5)
RHF48AA-VOC-LF	16	5.00E-04	(100.0)	0.0	(148.5)
RHF48AA-VOC-CC	8	2.50E-03	( 61.0)	0.0	(148.5)
RHF478B-VOC-LF	1	1.10E-04	(147.5)	0.0	(148.5)
RHF47AA-VOC-LF	1	1.10E-04	(147.5)	0.0	(148.5)
RHF048B-V3C-LF	1	1.10E-04	(147.5)	0.0	(148.5)
RHF04AA-VOC-LF	1	1.10E-04	(147.5)	0.0	(148.5)
RHF038B-VOC-LF	1	1.10E-04	(147.5)	0.0	(148.5)
RHF03AA-VOC-LF	1	1.10E-04	(147.5)	0.0	(148.5)
C00G01P-PMS-CC	8	2.50E-03	( 61.0)	0.0	(148.5)
RHRC028B-P-UJM	14	3.00E-03	( 42.5)	0.0	(148.5)
RHRC02AA-P-UJM	17	3.00E-03	( 42.5)	0.0	(148.5)
RHRC003B-P-UJM	11	3.00E-03	( 42.5)	0.0	(148.5)
RA-NONE	156	1.00E+00	( 6.5)	0.0	(148.5)
NOFLOW-SPC-B5K	12	1.00E+00	( 6.5)	0.0	(148.5)
NOFLOW-SPC-ASX	16	1.00E+00	( 6.5)	0.0	(148.5)
NOFLOW-RHR-BT	8	1.00E+00	( 6.5)	0.0	(148.5)
NOFLOW-RHR-A1	13	1.00E+00	( 6.5)	0.0	(148.5)
NOFLOW-CSS-B7A	12	1.00E+00	( 6.5)	0.0	(148.5)
NOFLOW-CSS-A7A	16	1.00E+00	( 6.5)	0.0	(148.5)
NLOSP	28	1.00E+00	( 6.5)	0.0	(148.5)
SCSF068B-DENER	17	1.00E+00	( 6.5)	0.0	(148.5)
SCSF06AA-DENER	20	1.00E+00	( 6.5)	0.0	(148.5)
FLOW-RHR-B3	76	1.00E+00	( 6.5)	0.0	(148.5)
FLOW-RHR-A3	87	1.00E+00	( 6.5)	0.0	(148.5)



SEQUENCE 118

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPO8B2-T-SE82B WITH TOP EVENT FREQUENCY 2.71E-06

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	6	2.41E-07	0.08907	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T1	* RA-NONE	*
3					RHP01AK-WTK-LFB	* SUR-003-L	*		*
4	4	6	1.17E-07	0.13216	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T1	* RA-NONE	*
5					RHRC02AA-P-WOLUM	* SUR-003-L	*		*
6	3	6	1.17E-07	0.17526	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T1	* LLSC002A-P-UUM	*
7					RA-NONE	* SUR-003-L	*		*
8	2	7	1.17E-07	0.21835	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T1	* RA-NONE	*
9					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-003-L	*	*
10	5	6	1.17E-07	0.26145	1EB2368-BCO-LF	* COG01P-P-UUM	* CONT-LEAK	* 1E-T1	*
11					RA-NONE	* SUR-003-L	*		*
12	8	6	9.72E-08	0.29736	1EB2368-BCO-LF	* COG01P-PMS-CC	* CONT-LEAK	* 1E-T1	*
13					RA-NONE	* SUR-003-L	*		*
14	7	6	9.72E-08	0.33328	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T1	* MMVY07CA-PMS-CC	*
15					RA-NONE	* SUR-003-L	*		*
16	6	6	9.72E-08	0.36919	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T1	* RA-NONE	*
17					RHRC01AA-B00-CC	* SUR-003-L	*		*
18	10	6	6.48E-08	0.39313	1E42YB-V-UUM	* CONT-LEAK	* CSD300A-PLG-LF	* 1E-T1	*
19					RA-NONE	* SUR-003-L	*		*
20	9	6	6.48E-08	0.41708	1EB2368-B-UUM	* CONT-LEAK	* CSD300A-PLG-LF	* 1E-T1	*
21					RA-NONE	* SUR-003-L	*		*
22	12	5	5.04E-08	0.43570	1EB16211-BCO	* CONT-LEAK	* 1E-T102	* RA-NONE	*
23					SUR-003-L	*	*		*
24	11	5	5.04E-08	0.45432	1EB16212-BCO	* CONT-LEAK	* 1E-T101	* RA-NONE	*
25					SUR-003-L	*	*		*
26	13	6	4.67E-08	0.47156	1EB2368-BCO-LF	* CONT-LEAK	* CSD300A-PLG-LF	* 1E-T1	*
27					RA-NONE	* SUR-003-L	*		*
28	16	5	4.32E-08	0.48752	1EB36Y1X-BCO-LF	* CONT-LEAK	* 1E-T101	* RA-NONE	*
29					SUR-003-L	*	*		*
30	17	5	4.32E-08	0.50348	1EB36XB-BCO-LF	* CONT-LEAK	* 1E-T101	* RA-NONE	*
31					SUR-003-L	*	*		*
32	14	5	4.32E-08	0.51944	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T101	* RA-NONE	*
33					SUR-003-L	*	*		*
34	19	5	4.32E-08	0.53540	1EB36YB-BCO-LF	* CONT-LEAK	* 1E-T101	* RA-NONE	*
35					SUR-003-L	*	*		*
36	15	5	4.32E-08	0.55137	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T9A	* RA-NONE	*
37					SUR-003-L	*	*		*
38	18	5	4.32E-08	0.56733	1EB235A-BCO-LF	* CONT-LEAK	* 1E-T9B	* RA-NONE	*
39					SUR-003-L	*	*		*
40	21	6	4.28E-08	0.58313	1EB2368-BCO-LF	* COG01P-PMS-LF	* CONT-LEAK	* 1E-T1	*
41					RA-NONE	* SUR-003-L	*		*
42	20	6	4.28E-08	0.59893	1EB2368-BCO-LF	* CONT-LEAK	* 1E-T1	* RA-NONE	*
43					RHRC02AA-PMS-LF	* SUR-003-L	*		*

44	22	6	3.14E-08	0.61330	1E4ZYB-V-UUM	CONT-LEAK	EE-CSC0300A-PLE	1E-TT	*
45					RA-NONE	SUR-003-L			*
46	24	6	3.27E-08	0.62537	1E82368-BCD-LF	CONT-LEAK	1E-T3	RA-NONE	*
47					RHR01AX-RTX-LFB	SUR-003-L			*
48	23	6	3.27E-08	0.63744	1E82368-BCD-LF	CONT-LEAK	1E-T1	NAWYO-AK-MCK-LF1	*
49					RA-NONE	SUR-003-L			*
50	25	6	3.21E-08	0.64931	1E82368-BCD-LF	CONT-LEAK	1E-T5	RA-NONE	*
51					RHR01AX-RTX-LFB	SUR-003-L			*
52	26	6	2.79E-08	0.65960	1E82368-BCD-LF	CONT-LEAK	1E-T2	RA-NONE	*
53					RHR01AX-RTX-LFB	SUR-003-L			*
54	27	5	2.52E-08	0.66892	CONT-LEAK	1E-T101	LAK9RCB-R00-LFO	RA-1-1-27H	*
55					SUR-003-L				*
56	30	5	2.52E-08	0.67823	CONT-LEAK	1E-T102	LAK10RCA-R00-LFO	RA-1-1-27H	*
57					SUR-003-L				*
58	28	5	2.52E-08	0.68754	CONT-LEAK	1E-T102	LAK9ARC-R00-LFO	RA-1-1-27H	*
59					SUR-003-L				*
60	31	5	2.52E-08	0.69685	CONT-LEAK	1E-T102	LAK1BARA-R00-LFO	RA-1-1-27H	*
61					SUR-003-L				*
62	29	5	2.52E-08	0.70616	CONT-LEAK	1E-T101	LAK18RB-R00-LFO	RA-1-1-27H	*
63					SUR-003-L				*
64	32	6	2.26E-08	0.71449	1E82368-BCD-LF	C00G01P-PLG-LF	CONT-LEAK	1E-T1	*
65					RA-NONE	SUR-003-L			*
66	33	6	2.20E-08	0.72261	1E82368-BCD-LF	CONT-LEAK	1E-T4	RA-NONE	*
67					RHR01AX-RTX-LFB	SUR-003-L			*
68	35	6	1.94E-08	0.72979	1E82368-BCD-LF	CONT-LEAK	CSCF068A-VCC-LF	1E-T1	*
69					RA-NONE	SUR-003-L			*
70	36	6	1.94E-08	0.73697	1E82368-BCD-LF	CONT-LEAK	1E-T1	RA-NONE	*
71					RHR01AX-R00-LF	SUR-003-L			*
72	34	7	1.94E-08	0.74417	1E82368-BCD-LF	CONT-LEAK	FLOM-RHR-A3	1E-T1	*
73					RA-NONE	RHR488A-V00-LF	SUR-003-L		*
74	40	6	1.92E-08	0.75125	CONT-LEAK	FLOM-RHR-B3	1E-T101	LAK93BRC-R00-LFO	*
75					RA-2-11-27H	SUR-003-L			*
76	39	7	1.92E-08	0.75834	CONT-LEAK	1E-T102	LAK14ARC-R00-LFO	NOFLOW-CSS-B7A	*
77					NOFLOW-SPC-A5X	RA-2-11-27H	SUR-003-L		*
78	37	7	1.92E-08	0.76544	CONT-LEAK	1E-T101	LAK14BRC-R00-LFO	NOFLOW-CSS-B7A	*
79					NOFLOW-SPC-B5X	RA-2-11-27H	SUR-003-L		*
80	38	6	1.92E-08	0.77253	CONT-LEAK	FLOM-RHR-A3	1E-T102	LAK93ARC-R00-LFO	*
81					RA-2-11-27H	SUR-003-L			*
82	42	6	1.58E-08	0.77837	1E82368-BCD-LF	CONT-LEAK	1E-T3	RA-NONE	*
83					RHR02AA-P-UUM	SUR-003-L			*
84	43	7	1.58E-08	0.78421	1E82368-BCD-LF	CONT-LEAK	1E-T3	RA-NONE	*
85					RHR02AA-P-UUM	SCSF06AA-DENER	SUR-003-L		*
86	41	6	1.58E-08	0.79056	1E82368-BCD-LF	CONT-LEAK	1E-T3	LCS002A-P-UUM	*
87					RA-NONE	SUR-003-L			*
88	44	6	1.58E-08	0.79590	1E82368-BCD-LF	C00G01P-P-UUM	CONT-LEAK	1E-T3	*
89					RA-NONE	SUR-003-L			*
90	45	7	1.56E-08	0.80164	1E82368-BCD-LF	CONT-LEAK	1E-T5	RA-NONE	*
91					RHR02AA-P-UUM	SCSF06AA-DENER	SUR-003-L		*
92	45	6	1.56E-08	0.80739	1E82368-BCD-LF	CONT-LEAK	1E-T5	LCS002A-P-UUM	*
93					RA-NONE	SUR-003-L			*
94	48	6	1.35E-08	0.81237	1E82368-BCD-LF	CONT-LEAK	1E-T2	LCS002A-P-UUM	*
95					RA-NONE	SUR-003-L			*

96	47	7	1.35E-08	0.81735	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T2	* RA-NONE	*
97					RHR02AA-P-UJM	* SCSF06AA-DENER	* SUR-003-L	* SUR-003-L	*	*
98	50	6	1.32E-08	0.82222	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T3	* NAVY01DA-PMS-CC	*
99					RA-NONE	* SUR-003-L	* SUR-003-L	* IE-T3	*	*
100	49	6	1.32E-08	0.82709	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T3	* RA-NONE	*
101					RHR01AA-B00-CC	* SUR-003-L	* SUR-003-L	* IE-T3	*	*
102	51	6	1.32E-08	0.83196	1EB2368-BCO-LF	* COG01P-PMS-CC	* COG01P-PMS-CC	* CONT-LEAK	* IE-T3	*
103					RA-NONE	* SUR-003-L	* SUR-003-L	* CONT-LEAK	*	*
104	52	6	1.06E-08	0.83588	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T4	* LCSC002A-P-UJM	*
105					RA-NONE	* SUR-003-L	* SUR-003-L	* IE-T4	* RA-NONE	*
106	53	7	1.06E-08	0.83981	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* SUR-003-L	* RA-NONE	*
107					RHR02AA-P-UJM	* SCSF06AA-DENER	* SCSF06AA-DENER	* CSCD300A-PLG-LF	* IE-T3	*
108	54	6	8.78E-09	0.84305	1E421B-V-UJM	* CONT-LEAK	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T3	*
109					RA-NONE	* SUR-003-L	* SUR-003-L	* CSCD300A-PLG-LF	* IE-T3	*
110	55	6	8.78E-09	0.84630	1EB2368-8-UJM	* CONT-LEAK	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T3	*
111					RA-NONE	* SUR-003-L	* SUR-003-L	* OFFAIL-VENT-2H	* RA-NONE	*
112	57	6	7.81E-09	0.84919	CONT-LEAK	* IE-198	* IE-198	* OFFAIL-VENT-2H	* RA-NONE	*
113					RHR01AX-HTX-LFB	* SUR-003-L	* SUR-003-L	* RA-MSL0V-1-2H	* RHR01AX-HTX-LFB	*
114	56	5	7.81E-09	0.85207	CONT-LEAK	* IE-T102	* IE-T102	* RA-MSL0V-1-2H	* RHR01AX-HTX-LFB	*
115					SUR-003-L	* SUR-003-L	* SUR-003-L	* OFFAIL-VENT-2H	* RA-NONE	*
116	59	6	7.81E-09	0.85496	CONT-LEAK	* IE-19A	* IE-19A	* OFFAIL-VENT-2H	* RA-NONE	*
117					RHR01BX-HTX-LFB	* SUR-003-L	* SUR-003-L	* OFFAIL-VENT-2H	* RA-NONE	*
118	58	5	7.81E-09	0.85785	CONT-LEAK	* IE-T101	* IE-T101	* RA-MSL0V-1-2H	* RHR01BX-HTX-LFB	*
119					SUR-003-L	* SUR-003-L	* SUR-003-L	* RA-MSL0V-1-2H	* RHR01BX-HTX-LFB	*
120	60	6	6.32E-09	0.86018	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T3	*
121					RA-NONE	* SUR-003-L	* SUR-003-L	* CSCD300A-PLG-LF	* IE-T3	*
122	61	6	6.22E-09	0.86248	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T5	*
123					RA-NONE	* SUR-003-L	* SUR-003-L	* CSCD300A-PLG-LF	* IE-T5	*
124	63	6	5.80E-09	0.86462	1EB2368-BCO-LF	* COG01P-PMS-LF	* COG01P-PMS-LF	* CONT-LEAK	* IE-T3	*
125					RA-NONE	* SUR-003-L	* SUR-003-L	* CONT-LEAK	* IE-T3	*
126	62	6	5.80E-09	0.86676	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T3	* RA-NONE	*
127					RHR02AA-PMS-LF	* SUR-003-L	* SUR-003-L	* IE-T3	* RA-NONE	*
128	64	6	5.70E-09	0.86887	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T5	* RA-NONE	*
129					RHR02AA-PMS-LF	* SUR-003-L	* SUR-003-L	* CONT-LEAK	* RA-NONE	*
130	65	6	5.70E-09	0.87098	1EB2368-BCO-LF	* COG01P-PMS-LF	* COG01P-PMS-LF	* CONT-LEAK	* IE-T5	*
131					RA-NONE	* SUR-003-L	* SUR-003-L	* CSCD300A-PLG-LF	* IE-T2	*
132	66	6	5.39E-09	0.87297	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T2	*
133					RA-NONE	* SUR-003-L	* SUR-003-L	* CONT-LEAK	* IE-T2	*
134	68	6	4.94E-09	0.87480	1EB2368-BCO-LF	* COG01P-PMS-LF	* COG01P-PMS-LF	* CONT-LEAK	* IE-T2	*
135					RA-NONE	* SUR-003-L	* SUR-003-L	* IE-T2	* RA-NONE	*
136	67	6	4.94E-09	0.87662	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T2	* RA-NONE	*
137					RHR02AA-PMS-LF	* SUR-003-L	* SUR-003-L	* IE-T2	* RA-NONE	*
138	71	5	4.28E-09	0.87821	CONT-LEAK	* IE-T101	* IE-T101	* LAK3R0CB-RCD-LFO	* RA-1-1-27H	*
139					SUR-003-L	* SUR-003-L	* SUR-003-L	* LAK3R0CB-RCD-LFO	* RA-1-1-27H	*
140	72	5	4.28E-09	0.87979	CONT-LEAK	* IE-T102	* IE-T102	* LAK3R0CB-RCD-LFO	* RA-1-1-27H	*
141					SUR-003-L	* SUR-003-L	* SUR-003-L	* LAK3R0CB-RCD-LFO	* RA-1-1-27H	*
142	69	7	4.28E-09	0.88137	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T1	* NOFLOW-RHR-AT	*
143					RA-NONE	* RHR01AX-STR	* RHR01AX-STR	* SUR-003-L	* NOFLOW-RHR-AT	*
144	70	6	4.25E-09	0.88294	1EB2368-BCO-LF	* CONT-LEAK	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T4	*
145					RA-NONE	* SUR-003-L	* SUR-003-L	* CSCD300A-PLG-LF	* IE-T4	*
146	74	6	3.90E-09	0.88438	1EB2368-BCO-LF	* COG01P-PMS-LF	* COG01P-PMS-LF	* CONT-LEAK	* IE-T4	*
147					RA-NONE	* SUR-003-L	* SUR-003-L	* CONT-LEAK	* IE-T4	*

148	73	6	3.90E-09	0.88582	1EB236B-BCO-LF	CONT-LEAK	CONT-LEAK	IE-T4	RA-NONE	*
149	90	6	3.78E-09	0.88722	RHRC02AA-PMS-LF	SUR-003-L	SUR-003-L	LCSC002A-P-UJM	OPFAIL-VENT-2H	*
150					CONT-LEAK	IE-19B	IE-19B			*
151					RA-NONE	SUR-003-L	SUR-003-L			*
152	88	7	3.78E-09	0.88861	CONT-LEAK	IE-19A	IE-19A	OPFAIL-VENT-2H	RA-NONE	*
153					RHRC02BB-P-UJM	SCSF06BB-DENER	SCSF06BB-DENER	SUR-003-L	RHRC02AA-P-UJM	*
154	86	6	3.78E-09	0.89001	CONT-LEAK	IE-T102	IE-T102	RA-MSLDV-1-2H		*
155					SCSF06AA-DENER	SUR-003-L	SUR-003-L	RA-MSLDV-1-2H	RHRC02AA-P-UJM	*
156	85	5	3.78E-09	0.89141	CONT-LEAK	IE-T102	IE-T102			*
157					SUR-003-L	IE-19B	IE-19B	OPFAIL-VENT-2H	RA-NONE	*
158	83	7	3.78E-09	0.89280	CONT-LEAK	SCSF06AA-DENER	SCSF06AA-DENER	SUR-003-L		*
159					RHRC02AA-P-UJM	IE-T101	IE-T101	RA-MSLDV-1-2H	RHRC02BB-P-UJM	*
160	80	6	3.78E-09	0.89420	CONT-LEAK	SUR-003-L	SUR-003-L	RA-MSLDV-1-2H		*
161					SCSF06BB-DENER	IE-T101	IE-T101	RA-MSLDV-1-2H	RHRC02BB-P-UJM	*
162	82	5	3.78E-09	0.89560	CONT-LEAK	CONT-LEAK	CONT-LEAK			*
163					SUR-003-L	IE-T101	IE-T101	RA-MSLDV-1-2H		*
164	76	5	3.78E-09	0.89699	C20G01P-P-UJM	CONT-LEAK	CONT-LEAK	IE-T101		*
165					SUR-003-L	IE-T101	IE-T101	RA-7-1-27H	RHRC003B-P-UJM	*
166	79	5	3.78E-09	0.89839	CONT-LEAK	IE-T102	IE-T102	LCSC002A-P-UJM	RA-MSLDV-1-2H	*
167					SUR-003-L	CONT-LEAK	CONT-LEAK			*
168	77	5	3.78E-09	0.89978	CONT-LEAK	CONT-LEAK	CONT-LEAK	IE-T102	RA-MSLDV-1-2H	*
169					SUR-003-L	IE-T101	IE-T101	LAK18B0P1-LFOO		*
170	75	5	3.78E-09	0.90118	C00G01P-P-UJM	CONT-LEAK	CONT-LEAK	LAK08CP3-LFOO		*
171					SUR-003-L	IE-T101	IE-T101	LAK10ACP9-LFOO		*
172	89	5	3.65E-09	0.90253	CONT-LEAK	IE-T101	IE-T101	LAK08CP3-LFOO	RA-1-1-27H	*
173					SUR-003-L	IE-T101	IE-T101	LAK10ACP9-LFOO		*
174	87	5	3.65E-09	0.90388	CONT-LEAK	IE-T102	IE-T102	LAK18ACP1-LFOO	RA-1-1-27H	*
175					SUR-003-L	CONT-LEAK	CONT-LEAK	LAK08CP3-LFOO		*
176	81	5	3.65E-09	0.90523	CONT-LEAK	IE-T102	IE-T102	LAK10ACP9-LFOO	RA-1-1-27H	*
177					SUR-003-L	CONT-LEAK	CONT-LEAK	LAK18ACP1-LFOO		*
178	84	5	3.65E-09	0.90658	CONT-LEAK	IE-T102	IE-T102	LAK08CP3-LFOO	RA-1-1-27H	*
179					SUR-003-L	CONT-LEAK	CONT-LEAK			*
180	78	5	3.65E-09	0.90793	CONT-LEAK	CCB00G1P-BCO-LF	CCB00G1P-BCO-LF	CONT-LEAK	IE-T1	*
181					SUR-003-L	SUR-003-L	SUR-003-L	RA-MSLDV-1-2H	SEVY03CB-FMS-CC	*
182	91	6	3.27E-09	0.90914	1FB236B-BCO-LF	IE-T101	IE-T101	RA-MSLDV-1-2H	RHRB01AA-800-CC	*
183					RA-NONE	IE-T101	IE-T101	RA-MSLDV-1-2H	RHRB01BB-800-CC	*
184	93	5	3.15E-09	0.91030	CONT-LEAK	IE-T102	IE-T102	RA-MSLDV-1-2H	RHRB01BB-800-CC	*
185					SUR-003-L	CONT-LEAK	CONT-LEAK	IE-T101		*
186	94	5	3.15E-09	0.91147	CONT-LEAK	IE-T101	IE-T101	IE-T101	RA-MSLDV-1-2H	*
187					SUR-003-L	CONT-LEAK	CONT-LEAK	IE-T102		*
188	92	5	3.15E-09	0.91263	CONT-LEAK	SUR-003-L	SUR-003-L	CONT-LEAK	RA-MSLDV-1-2H	*
189					SUR-003-L	C20G01P-PMS-CC	C20G01P-PMS-CC	CONT-LEAK		*
190	95	5	3.15E-09	0.91379	CONT-LEAK	SUR-003-L	SUR-003-L	CONT-LEAK	RA-MSLDV-1-2H	*
191					SUR-003-L	CONT-LEAK	CONT-LEAK	IE-T102		*
92	96	5	3.15E-09	0.91496	CONT-LEAK	IE-T102	IE-T102	NAVY01CA-FMS-CC	RA-MSLDV-1-2H	*
93					SUR-003-L	CONT-LEAK	CONT-LEAK	CONT-LEAK		*
94	97	5	3.15E-09	0.91612	CONT-LEAK	IE-T102	IE-T102	CONT-LEAK	IE-T3	*
195					SUR-003-L	C00G01F-PLG-LF	C00G01F-PLG-LF	CONT-LEAK		*
196	98	6	3.06E-09	0.91725	1EB236B-BCO-LF	SUR-003-L	SUR-003-L	CONT-LEAK	IE-T5	*
197					RA-NONE	C00G01F-PLG-LF	C00G01F-PLG-LF	CONT-LEAK		*
198	99	6	3.01E-09	0.91836	1EB236B-BCO-LF	SUR-003-L	SUR-003-L			*
199					RA-NONE					*

200	105	6	2.80E-09	0.91	9	1EB212YX-BCO-LF	1EB235A-BCO-LF	CONT-LEAK	1E-T1	*
201						RA-NONE	SUR-003-L			*
202	111	6	2.80E-09	0.92743		1EB235A-BCO-LF	1EB236H-BCO-LF	CONT-LEAK	1E-T1	*
203						RA-NONE	SUR-003-L			*
204	114	6	2.80E-09	0.92147		1EB235XA-BCO-LF	1EB36YB-BCO-LF	CONT-LEAK	1E-T1	*
205						RA-NONE	SUR-003-L			*
206	113	6	2.80E-09	0.92250		1EB235A-BCO-LF	1EB36K6-BCO-LF	CONT-LEAK	1E-T1	*
207						RA-NONE	SUR-003-L			*
208	109	6	2.80E-09	0.92353		1EB235A-BCO-LF	1EB2Y22X-BCO	CONT-LEAK	1E-T1	*
209						RA-NONE	SUR-003-L			*
210	107	6	2.80E-09	0.92457		1EB235YA-BCO-LF	1EB236B-BCO-LF	CONT-LEAK	1E-T1	*
211						RA-NONE	SUR-003-L			*
212	110	6	2.80E-09	0.92560		1EB236B-BCO-LF	1EB35Y2X-BCO-LF	CONT-LEAK	1E-T1	*
213						RA-NONE	SUR-003-L			*
214	106	6	2.80E-09	0.92664		1EB235A-BCO-LF	1EB36Y1X-BCO-LF	CONT-LEAK	1E-T1	*
215						RA-NONE	SUR-003-L			*
216	103	6	2.80E-09	0.92767		1EB211YX-BCO-LF	1EB236B-BCO-LF	CONT-LEAK	1E-T1	*
217						RA-NONE	SUR-003-L			*
218	108	6	2.80E-09	0.92871		1EB1Y22X-BCO	1EB236B-BCO-LF	CONT-LEAK	1E-T1	*
219						RA-NONE	SUR-003-L			*
220	112	6	2.80E-09	0.92974		1EB35Y2X-BCO-LF	1EB36YB-BCO-LF	CONT-LEAK	1E-T1	*
221						RA-NONE	SUR-003-L			*
222	104	6	2.80E-09	0.93077		1EB235XA-BCO-LF	1EB236B-BCO-LF	CONT-LEAK	1E-T1	*
223						RA-NONE	SUR-003-L			*
224	102	6	2.80E-09	0.93181		1EB235YA-BCO-LF	1EB36YB-BCO-LF	CONT-LEAK	1E-T1	*
225						RA-NONE	SUR-003-L			*
226	101	6	2.78E-09	0.93284		CONT-LEAK	FLCW-RHR-63	1E-T101	LAK93BOP3-LFCC	*
227						RA-NONE	SUR-003-L			*
228	100	6	2.78E-09	0.93387		CONT-LEAK	FLOW-RHR-A3	1E-T102	LAK93ACP3-LFCC	*
229						RA-2-11-27H	SUR-003-L			*
230	116	6	2.64E-09	0.93484		1EB236B-BCO-LF	CONT-LEAK	1E-T3	RA-NONE	*
231						RHR01AA-BOO-LF	SUR-003-L			*
232	115	7	2.64E-09	0.93581		1EB236B-BCO-LF	CONT-LEAK	FLOW-RHR-A3	1E-T3	*
233						RA-NONE	RHRF68AA-V00-LF	SUR-003-L		*
234	117	6	2.64E-09	0.93679		1EB236B-BCO-LF	CONT-LEAK	CSCF668A-VCC-LF	1E-T3	*
235						RA-NONE	SUR-003-L			*
236	118	6	2.61E-09	0.93775		1EB236B-BCO-LF	C00G01F-PLG-LF	CONT-LEAK	1E-T2	*
237						RA-NONE	SUR-003-L			*
238	120	7	2.59E-09	0.93871		1EB236B-BCO-LF	CONT-LEAK	FLOW-RHR-A3	1E-T5	*
239						RA-NONE	RHRF68AA-V00-LF	SUR-003-L		*
240	119	6	2.59E-09	0.93966		1EB236B-BCO-LF	CONT-LEAK	CSCF668A-VCC-LF	1E-T5	*
241						RA-NONE	SUR-003-L			*
242	121	6	2.59E-09	0.94062		1EB236B-BCO-LF	CONT-LEAK	1E-T5	RA-NONE	*
243						RHR01AA-BOO-LF	SUR-003-L			*
244	124	6	2.40E-09	0.94151		CONT-LEAK	FLOW-RHR-B3	1E-T101	RA-2-11-27H	*
245						RHRF488B-V00-CC	SUR-003-L			*
246	123	5	2.40E-09	0.94240		CONT-LEAK	CSCF668A-VCC-CC	1E-T102	RA-2-11-27H	*
247						SUR-003-L				*
248	122	6	2.40E-09	0.94328		CONT-LEAK	FLOW-RHR-A3	1E-T102	RA-2-11-27H	*
249						RHRF48AA-V00-CC	SUR-003-L			*
250	125	5	2.40E-09	0.94417		CONT-LEAK	CSCF668B-VCC-CC	1E-T101	RA-2-11-27H	*
251						SUR-003-L				*

252	126	6	2.27E-09	0.94501	1E82368-B-UUM	* CONT-LEAK	* IE-T1	* LAK18ARA-ROO-LFO
253					RA-1-1-27H	* SUR-003-L		
254	127	6	2.27E-09	0.94585	1E42Y8-V-UUM	* CONT-LEAK	* IE-T1	* LAK18ARA-ROO-LFO
255					RA-1-1-27H	* SUR-003-L		
256	135	6	2.27E-09	0.94668	1E82368-B-UUM	* CONT-LEAK	* IE-T1	* LAK10RCA-ROO-LFO
257					RA-1-1-27H	* SUR-003-L		
258	133	6	2.27E-09	0.94752	1E8235A-B-UUM	* CONT-LEAK	* IE-T1	* LAK98RCB-ROO-LFO
259					RA-1-1-27H	* SUR-003-L		
260	132	6	2.27E-09	0.94836	1E41YA-V-UUM	* CONT-LEAK	* IE-T1	* LAK188RB-ROO-LFO
261					RA-1-1-27H	* SUR-003-L		
262	136	6	2.27E-09	0.94920	1E82368-B-UUM	* CONT-LEAK	* IE-T1	* LAK98CA-ROO-LFO
263					RA-1-1-27H	* SUR-003-L		
264	131	6	2.27E-09	0.95004	1E8235A-B-UUM	* CONT-LEAK	* IE-T1	* LAK188RB-ROO-LFO
265					RA-1-1-27H	* SUR-003-L		
266	130	6	2.27E-09	0.95087	1E36Y8-V-UUM	* CONT-LEAK	* IE-T1	* LAK18ARA-ROO-LFO
267					RA-1-1-27H	* SUR-003-L		
268	134	6	2.27E-09	0.95171	1E41YA-V-UUM	* CONT-LEAK	* IE-T1	* LAK98RCB-ROO-LFO
269					RA-1-1-27H	* SUR-003-L		
270	129	6	2.27E-09	0.95255	1E42Y8-V-UUM	* CONT-LEAK	* IE-T1	* LAK10RCA-ROO-LFO
271					RA-1-1-27H	* SUR-003-L		
272	128	6	2.27E-09	0.95339	1E42Y8-V-UUM	* CONT-LEAK	* IE-T1	* LAK98CA-ROO-LFO
273					RA-1-1-27H	* SUR-003-L		
274	139	6	2.25E-09	0.95422	1E82368-BCO-LF	* CONT-LEAK	* ESCF068A-VCC-LF	* IE-T2
275					RA-NONE	* SUR-003-L		
276	137	7	2.25E-09	0.95505	1E82368-BCO-LF	* CONT-LEAK	* FLOW-RHR-A3	* IE-T2
277					RA-NONE	* RHR48AA-V00-LF	* SUR-003-L	
278	138	6	2.25E-09	0.95588	1E82368-BCO-LF	* CONT-LEAK	* IE-T2	* RA-NONE
279					RHR01AA-800-LF	* SUR-003-L		
280	140	6	2.05E-09	0.95634	1E82368-BCO-LF	* C00G01F-PLG-LF	* CONT-LEAK	* IE-T4
281					RA-NONE	* SUR-003-L		
282	141	6	1.77E-09	0.95729	1E82368-BCO-LF	* CONT-LEAK	* CSCF068A-VCC-LF	* IE-T4
283					RA-NONE	* SUR-003-L		
284	143	7	1.77E-09	0.95795	1E82368-BCO-LF	* CONT-LEAK	* FLOW-RHR-A3	* IE-T4
285					RA-NONE	* RHR48AA-V00-LF	* SUR-003-L	
286	142	6	1.77E-09	0.95860	1E82368-BCO-LF	* CONT-LEAK	* IE-T4	* RA-NONE
287					RHR01AA-800-LF	* SUR-003-L		
288	147	7	1.73E-09	0.95924	1E41YA-V-UUM	* CONT-LEAK	* FLOW-RHR-B3	* IE-T1
289					LAK98RC-ROO-LFO	* RA-2-11-27H	* SUR-003-L	
290	145	7	1.73E-09	0.95988	1E42Y8-V-UUM	* CONT-LEAK	* FLOW-RHR-A3	* IE-T1
291					LAK93ARC-ROO-LFO	* RA-2-11-27H	* SUR-003-L	
292	146	7	1.73E-09	0.96051	1E82368-B-UUM	* CONT-LEAK	* FLOW-RHR-A3	* IE-T1
293					LAK93ARC-ROO-LFO	* RA-2-11-27H	* SUR-003-L	
294	144	7	1.73E-09	0.96115	1E8235A-B-UUM	* CONT-LEAK	* FLOW-RHR-B3	* IE-T1
295					LAK98RC-ROO-LFO	* RA-2-11-27H	* SUR-003-L	
296	148	6	1.63E-09	0.96176	1E8235A-BCO-LF	* CONT-LEAK	* IE-T1	* LAK98RCB-ROO-LFO
297					RA-1-1-27H	* SUR-003-L		
298	152	6	1.63E-09	0.96236	1E82368-BCO-LF	* CONT-LEAK	* IE-T1	* LAK10RCA-ROO-LFO
299					RA-1-1-27H	* SUR-003-L		
300	151	6	1.63E-09	0.96296	1E8235A-BCO-LF	* CONT-LEAK	* IE-T1	* LAK188RB-ROO-LFO
301					RA-1-1-27H	* SUR-003-L		
302	150	6	1.63E-09	0.96357	1E82368-BCO-LF	* CONT-LEAK	* IE-T1	* LAK18ARA-ROO-LFO
303					RA-1-1-27H	* SUR-003-L		

304	149	6	1.63E-09	0.96417	1EB236B-BCD-LF	* CONT-LEAK	* 1E-T1	* LAK9ARCA-ROO-LFO *
305					RA-1-1-27H	* SUR-003-L	+	
306	156	6	1.51E-09	0.96473	CONT-LEAK	* CSCD300A-PLG-LF	* 1E-T9B	* OPFAIL-VENT-2H *
307					RA-NONE	* SUR-003-L	+	
308	155	5	1.51E-09	0.96529	CONT-LEAK	* CSCD300B-PLG-LF	* 1E-T101	* RA-MSLDV-1-2H *
309					SUR-003-L	+		
310	154	5	1.51E-09	0.96585	CONT-LEAK	* CSCD300A-PLG-LF	* 1E-T102	* RA-MSLDV-1-2H *
311					SUR-003-L	+		
312	153	6	1.51E-09	0.96640	CONT-LEAK	* CSCD300B-PLG-LF	* 1E-T9A	* OPFAIL-VENT-2H *
313					RA-NONE	* SUR-003-L	+	
314	159	6	1.39E-09	0.96692	CONT-LEAK	* 1E-T9A	* OPFAIL-VENT-2H	* RA-NONE *
315					RHRC02BB-PMS-LF	* SUR-003-L	+	
316	163	6	1.39E-09	0.96743	C2DG01P-PMS-LF	* CONT-LEAK	* 1E-T9A	* OPFAIL-VENT-2H *
317					RA-NONE	* SUR-003-L	+	
318	161	6	1.39E-09	0.96794	CDDG01P-PMS-LF	* CONT-LEAK	* 1E-T9B	* OPFAIL-VENT-2H *
319					RA-NONE	* SUR-003-L	+	
320	160	5	1.39E-09	0.96845	CONT-LEAK	* 1E-T101	* RA-MSLDV-1-2H	* RHRC02BB-PMS-LF *
321					SUR-003-L	+		
322	164	5	1.39E-09	0.96897	C2DG01P-PMS-LF	* CONT-LEAK	* 1E-T101	* RA-MSLDV-1-2H *
323					SUR-003-L	+		
324	158	5	1.39E-09	0.96948	CONT-LEAK	* 1E-T102	* RA-MSLDV-1-2H	* RHRC02AA-PMS-LF *
325					SUR-003-L	+		
326	162	5	1.39E-09	0.96999	CDDG01P-PMS-LF	* CONT-LEAK	* 1E-T102	* RA-MSLDV-1-2H *
327					SUR-003-L	+		
328	157	6	1.39E-09	0.97050	CONT-LEAK	* 1E-T9B	* OPFAIL-VENT-2H	* RA-NONE *
329					RHRC02AA-PMS-LF	* SUR-003-L	+	
330	167	8	1.24E-09	0.97096	1EB236B-BCD-LF	* CONT-LEAK	* 1E-T1	* LAK14ARC-ROO-LFO *
331					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-2-11-27H	* SUR-003-L *
332	166	7	1.24E-09	0.97142	1EB235A-BCD-LF	* CONT-LEAK	* FLOW-RHR-B3	* 1E-T1 *
333					LAK93BRC-ROO-LFO	* RA-2-11-27H	* SUR-003-L	+
334	168	7	1.24E-09	0.97188	1EB236B-BCD-LF	* CONT-LEAK	* FLOW-RHR-A3	* 1E-T1 *
335					LAK93ARC-ROO-LFO	* RA-2-11-27H	* SUR-003-L	+
336	165	8	1.24E-09	0.97234	1EB235A-BCD-LF	* CONT-LEAK	* 1E-T1	* LAK14BRC-ROO-LFO *
337					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-2-11-27H	* SUR-003-L *
338	170	5	1.06E-09	0.97273	CONT-LEAK	* 1E-T101	* RA-MSLDV-1-2H	* SEVY03AK-ACX-LFI *
339					SUR-003-L	+		
340	169	5	1.06E-09	0.97312	CONT-LEAK	* 1E-T102	* NWY01AX-ACX-LFI	* RA-MSLDV-1-2H *
341					SUR-003-L	+		
342	171	6	9.07E-10	0.97346	CONT-LEAK	* EE-C2DG01F-PLG	* 1E-T9A	* OPFAIL-VENT-2H *
343					RA-NONE	* SUR-003-L	+	
344	172	6	9.07E-10	0.97379	CONT-LEAK	* EE-CSCD300B-PLG	* 1E-T9A	* OPFAIL-VENT-2H *
345					RA-NONE	* SUR-003-L	+	
346	173	5	9.07E-10	0.97413	CONT-LEAK	* EE-CSCD300A-PLG	* 1E-T102	* RA-MSLDV-1-2H *
347					SUR-003-L	+		
348	176	5	8.32E-10	0.97444	AP040X4CP1-LFCD	* CONT-LEAK	* 1E-T101	* RA-1-1-27H *
349					SUR-003-L	+		
350	179	5	8.32E-10	0.97474	AP037X4CP1-LFCD	* CONT-LEAK	* 1E-T102	* RA-1-1-27H *
351					SUR-003-L	+		
352	178	5	8.32E-10	0.97505	CONT-LEAK	* 1E-T102	* LAK28ACXCP4-LFCD	* RA-1-1-27H *
353					SUR-003-L	+		
354	177	5	8.32E-10	0.97536	CONT-LEAK	* 1E-T102	* LAK3ARCXCP1-LFCD	* RA-1-1-27H *
355					SUR-003-L	+		

356	175	5	8.32E-10	0.97566	CONT-LEAK	* 1E-1101	* LAK2BKCP4-LFCD	* RA-1-1-27H	*
357	176	5	8.32E-10	0.97597	SUR-003-L	*	* LAK3BRCKCP1-LFCD	* RA-1-1-27H	*
358	180	6	7.31E-10	0.97624	CONT-LEAK	* 1E-1101	*	*	*
359	181	6	7.31E-10	0.97651	SUR-003-L	* CONT-LEAK	* 1E-198	* OPFAIL-VENT-2H	*
360	182	5	7.31E-10	0.97678	RA-NONE	* SUR-003-L	* 1E-19A	* OPFAIL-VENT-2H	*
361	183	5	7.31E-10	0.97705	CZDGG01F-PLG-LF	* CONT-LEAK	* 1E-1101	* RA-MSLDV-1-2H	*
362	184	5	7.31E-10	0.97730	RA-NONE	* CONT-LEAK	* 1E-1102	* RA-MSLDV-1-2H	*
363	185	5	6.80E-10	0.97755	CZDGG01F-PLG-LF	* SUR-003-L	* RA-MSLDV-1-2H	* SEVY03LB-FMS-LF	*
364	186	6	6.30E-10	0.97779	SUR-003-L	* 1E-1101	* NAVY01CA-FMS-LF	* RA-MSLDV-1-2H	*
365	187	6	6.30E-10	0.97799	CONT-LEAK	* 1E-1102	* NAVY01CA-FMS-LF	* RA-MSLDV-1-2H	*
366	188	5	6.30E-10	0.97825	CONT-LEAK	* 1E-198	* OPFAIL-VENT-2H	* RA-NONE	*
367	189	6	6.30E-10	0.97849	SUR-003-L	* SUR-003-L	* OPFAIL-VENT-2H	* RA-NONE	*
368	190	6	6.30E-10	0.97872	RHRB01AA-800-LF	* 1E-19A	* OPFAIL-VENT-2H	* RA-NONE	*
369	191	5	6.30E-10	0.97895	CONT-LEAK	* SUR-003-L	* 1E-1101	* RA-MSLDV-1-2H	*
370	192	5	6.30E-10	0.97918	RHRB01BB-800-LF	* CSCF068B-VCC-LF	* 1E-1101	* RA-MSLDV-1-2H	*
371	193	6	6.30E-10	0.97942	CONT-LEAK	* SUR-003-L	* 1E-1102	* RHRB01AA-800-LF	*
372	194	7	6.30E-10	0.97965	CONT-LEAK	* FLOW-RHR-A3	* RA-MSLDV-1-2H	* SEVY03CB-F-UM	*
373	195	6	6.30E-10	0.97988	RHRFADAA-V00-LF	* SUR-003-L	* RA-MSLDV-1-2H	* RA-MSLDV-1-2H	*
374	196	5	6.30E-10	0.97998	CONT-LEAK	* FLOW-RHR-A3	* 1E-198	* OPFAIL-VENT-2H	*
375	197	5	6.30E-10	0.97998	RA-NONE	* RHRF45AA-V00-LF	* SUR-003-L	* RA-MSLDV-1-2H	*
376	198	5	6.30E-10	0.97998	CONT-LEAK	* CSCF068A-VCC-LF	* 1E-1102	* RA-MSLDV-1-2H	*
377	199	5	6.30E-10	0.98011	SUR-003-L	* 1E-1101	* RA-MSLDV-1-2H	* RHRB01BB-800-LF	*
378	199	6	6.30E-10	0.98035	CONT-LEAK	* 1E-1101	* RA-MSLDV-1-2H	* RA-MSLDV-1-2H	*
379	200	6	6.30E-10	0.98058	SUR-003-L	* FLOW-RHR-B3	* 1E-1101	* RA-MSLDV-1-2H	*
380	201	7	6.30E-10	0.98081	CONT-LEAK	* SUR-003-L	* 1E-198	* OPFAIL-VENT-2H	*
381	202	7	6.30E-10	0.98115	RHRF488B-V00-LF	* SUR-003-L	* 1E-19A	* OPFAIL-VENT-2H	*
382	203	5	6.30E-10	0.98126	CONT-LEAK	* CSCF068A-VCC-LF	* NAVY01CA-F-UM	* RA-MSLDV-1-2H	*
383	204	7	6.30E-10	0.98147	CONT-LEAK	* SUR-003-L	* 1E-1102	* RA-MSLDV-1-2H	*
384	205	6	6.30E-10	0.98166	RA-NONE	* 1E-1101	* RA-MSLDV-1-2H	* RHRB01BB-800-LF	*
385	206	6	5.06E-10	0.98166	CONT-LEAK	* 1E-1101	* RA-MSLDV-1-2H	* RA-MSLDV-1-2H	*
386	207	6	5.06E-10	0.98166	CONT-LEAK	* CSCF068B-VCC-LF	* 1E-19A	* OPFAIL-VENT-2H	*
387	208	5	6.30E-10	0.98081	RA-NONE	* SUR-003-L	* 1E-19A	* OPFAIL-VENT-2H	*
388	209	7	6.30E-10	0.98115	CONT-LEAK	* 1E-1102	* NAVY01CA-F-UM	* RA-MSLDV-1-2H	*
389	210	7	6.30E-10	0.98126	CONT-LEAK	* FLOW-RHR-B3	* 1E-19A	* OPFAIL-VENT-2H	*
390	211	7	6.30E-10	0.98126	RA-NONE	* RHRF488B-V00-LF	* SUR-003-L	* OPFAIL-VENT-2H	*
391	212	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-13	* WOFLOW-RHR-A1	*
392	213	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* WOFLOW-RHR-A1	*
393	214	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-15	* WOFLOW-RHR-A1	*
394	215	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* WOFLOW-RHR-A1	*
395	216	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-11	* RA-5V-1-2H	*
396	217	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* RA-5V-1-2H	*
397	218	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-11	* RA-5V-1-2H	*
398	219	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* RA-5V-1-2H	*
399	220	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-11	* RA-5V-1-2H	*
400	221	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* RA-5V-1-2H	*
401	222	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-11	* RA-5V-1-2H	*
402	223	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* RA-5V-1-2H	*
403	224	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-11	* RA-5V-1-2H	*
404	225	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* RA-5V-1-2H	*
405	226	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-11	* RA-5V-1-2H	*
406	227	7	6.30E-10	0.98126	RA-NONE	* RHR301AX-STR	* SUR-003-L	* RA-5V-1-2H	*
407	228	7	6.30E-10	0.98126	1EB2368-BCO-LF	* CONT-LEAK	* 1E-11	* RA-5V-1-2H	*



408	205	6	5.04E-10	0.98184	1E235A-BCD-LF	CONT-LEAK	* IE-T1	* RA-MSLDV-1-2H
409					RHR01PX-HTX-LFB	SUR-003-L	*	
410	206	6	5.04E-10	0.98203	CONT-LEAK	IE-T101	*	LAK2BRCB-BCD-LFO
411					RA-1-1-27H	SUR-003-L	*	LAK2ARCA-BCD-LFO
412	207	6	5.04E-10	0.98222	CONT-LEAK	IE-T102	*	IE-T2
413					RA-1-1-27H	SUR-003-L	*	NOFLOW-RHR-A1
414	209	7	4.94E-10	0.98240	1E235B-BCD-LF	CONT-LEAK	*	SUR-003-L
415					RA-NONE	RHR301AX-STR	*	NOFLOW-RHR-A1
416	210	7	3.90E-10	0.98254	1E235B-BCD-LF	CONT-LEAK	*	SUR-003-L
417					RA-NONE	RHR301AX-STR	*	RA-MSLDV-1-2H
418	245	5	3.78E-10	0.98268	CONT-LEAK	IE-T102	*	RHRF65AA-N-UUM
419					SUR-003-L	IE-T102	*	RA-MSLDV-1-2H
420	244	5	3.78E-10	0.98282	CONT-LEAK	IE-T102	*	RHRF60AA-S-UUM
421					SUR-003-L	IE-T102	*	RHRF51AA-N-UUM
422	243	5	3.78E-10	0.98296	CONT-LEAK	IE-T102	*	RHRF74AA-V-UUM
423					SUR-003-L	IE-T102	*	RHR01RX-N-UUM
424	242	5	3.78E-10	0.98310	CONT-LEAK	IE-T102	*	RA-MSLDV-1-2H
425					SUR-003-L	IE-T102	*	RA-MSLDV-1-2H
426	241	5	3.78E-10	0.98324	CONT-LEAK	IE-T101	*	SCSF06AA-V-UUM
427					SUR-003-L	IE-T101	*	RA-MSLDV-1-2H
428	240	5	3.78E-10	0.98338	CONT-LEAK	IE-T101	*	RA-MSLDV-1-2H
429					SUR-003-L	IE-T101	*	RA-MSLDV-1-2H
430	236	5	3.78E-10	0.98352	CONT-LEAK	IE-T101	*	RA-MSLDV-1-2H
431					SUR-003-L	IE-T101	*	RA-MSLDV-1-2H
432	236	5	3.78E-10	0.98366	CONT-LEAK	IE-T101	*	RA-MSLDV-1-2H
433					SUR-003-L	IE-T101	*	RA-MSLDV-1-2H
434	234	6	3.78E-10	0.98380	CONT-LEAK	FLOW-RHR-A3	*	RA-MSLDV-1-2H
435					RHRF48AA-V-UUM	SUR-003-L	*	RHRF64AA-V-UUM
436	233	6	3.78E-10	0.98394	CONT-LEAK	IE-T102	*	RHRF47AA-V-UUM
437					SCSF06AA-DENER	SUR-003-L	*	RHRF47BB-V-UUM
438	232	6	3.78E-10	0.98408	CONT-LEAK	IE-T101	*	SCSF06AA-V-UUM
439					SCSF06BB-DENER	SUR-003-L	*	SCSF06AA-V-UUM
440	230	5	3.78E-10	0.98422	CONT-LEAK	IE-T102	*	RHRF58BX-R-UUM
441					SUR-003-L	IE-T101	*	RHRF58BX-R-UUM
442	229	6	3.78E-10	0.98436	CONT-LEAK	SUR-003-L	*	RHRF64BB-V-UUM
443					SCSF06BB-DENER	IE-T101	*	RHRF47AA-V-UUM
444	226	6	3.78E-10	0.98450	CONT-LEAK	SUR-003-L	*	RHRF47AA-V-UUM
445					SCSF06BB-DENER	IE-T102	*	SE-Y03AX-A-UUM
446	224	6	3.78E-10	0.98464	CONT-LEAK	SUR-003-L	*	RHRF51BB-N-UUM
447					SCSF06AA-DENER	IE-T101	*	RHRF87BB-V-UUM
448	239	5	3.78E-10	0.98478	CONT-LEAK	IE-T101	*	RHRF65BB-N-UUM
449					SUR-003-L	IE-T101	*	RHRF65BB-N-UUM
450	222	5	3.78E-10	0.98492	CONT-LEAK	IE-T101	*	RHRF80AX-R-UUM
451					SUR-003-L	IE-T101	*	RHRF80AX-R-UUM
452	216	5	3.78E-10	0.98506	CONT-LEAK	IE-T101	*	RA-MSLDV-1-2H
453					SUR-003-L	IE-T101	*	RA-MSLDV-1-2H
454	214	5	3.78E-10	0.98520	CONT-LEAK	IE-T101	*	RA-MSLDV-1-2H
455					SUR-003-L	IE-T102	*	RA-MSLDV-1-2H
456	213	6	3.78E-10	0.98534	CONT-LEAK	SUR-003-L	*	RA-MSLDV-1-2H
457					SCSF06AA-DENER	IE-T102	*	RHRF55AX-R-UUM
458	212	5	3.78E-10	0.98548	CONT-LEAK	IE-T102	*	
459					SUR-003-L		*	

460	231	6	3.78E-10	0.98562	CONT-LEAK	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H
461	211	5	3.78E-10	0.98576	RHRF088-V-UUM	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H
462	217	5	3.78E-10	0.98590	CONT-LEAK	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H
463	235	5	3.78E-10	0.98604	SUR-003-L	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H
464	237	5	3.78E-10	0.98617	CONT-LEAK	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H
465	228	5	3.78E-10	0.98631	SUR-003-L	PC02AAAX-ROO-LFO	RA-MSLDV-1-2H	RA-MSLDV-1-2H	RA-MSLDV-1-2H
466	227	5	3.78E-10	0.98645	CONT-LEAK	IE-T102	IE-T102	IE-T102	IE-T102
467	225	5	3.70E-10	0.98659	SUR-003-L	CSCF008A-V-UUM	IE-T101	IE-T101	IE-T101
468	223	5	3.78E-10	0.98673	CONT-LEAK	CSCD300B-S-UUM	IE-T102	IE-T102	IE-T102
469	220	5	3.78E-10	0.98687	SUR-003-L	CONT-LEAK	NAVY01AK-A-UUM	RA-MSLDV-1-2H	RA-MSLDV-1-2H
470	219	5	3.78E-10	0.98701	CONT-LEAK	CONT-LEAK	IE-T101	IE-T101	IE-T101
471	218	5	3.78E-10	0.98715	SUR-003-L	CSCD300A-S-UUM	IE-T102	IE-T102	IE-T102
472	221	5	3.78E-10	0.98729	CONT-LEAK	CSCF068B-V-UUM	IE-T101	IE-T101	IE-T101
473	215	5	3.78E-10	0.98743	SUR-003-L	CONT-LEAK	IE-T101	IE-T101	IE-T101
474	247	6	3.46E-10	0.98756	CONT-LEAK	IE-T101	LPCI-BETA	LPCI-PMS-CM	LPCI-PMS-CM
475	246	6	3.46E-10	0.98769	RA-MSLDV-1-2H	SUR-003-L	LPCI-BETA	LPCI-PMS-CM	LPCI-PMS-CM
476	249	5	3.17E-10	0.98780	RA-MSLDV-1-2H	IE-T102	LCSC002A-RUM-1	RA-2-11-27H	RA-2-11-27H
477	248	5	3.17E-10	0.98792	CONT-LEAK	IE-T101	RA-2-11-27H	RHRC003B-RUM-1	RHRC003B-RUM-1
478	255	6	3.07E-10	0.98804	SUR-003-L	CONT-LEAK	IE-T3	LAK18ARA-ROO-LFO	LAK18ARA-ROO-LFO
479	254	6	3.07E-10	0.98815	RA-1-1-27H	SUR-003-L	IE-T3	LAK9ARCA-ROO-LFO	LAK9ARCA-ROO-LFO
480	253	6	3.07E-10	0.98826	1E236B-B-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
481	252	6	3.07E-10	0.98838	RA-1-1-27H	SUR-003-L	IE-T3	LAK18ARA-ROO-LFO	LAK18ARA-ROO-LFO
482	251	6	3.07E-10	0.98849	1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK9ARCA-ROO-LFO	LAK9ARCA-ROO-LFO
483	250	6	3.07E-10	0.98860	RA-1-1-27H	SUR-003-L	IE-T3	LAK9BRCB-ROO-LFO	LAK9BRCB-ROO-LFO
484	259	6	3.07E-10	0.98872	1E41YA-V-UUM	CONT-LEAK	IE-T3	LAK18B8B-ROO-LFO	LAK18B8B-ROO-LFO
485	258	6	3.07E-10	0.98883	RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
486	511				1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
487					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
488					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
489					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
490					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
491					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
492					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
493					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
494					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
495					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
496					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
497					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
498					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
499					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
500					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
501					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
502					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
503					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
504					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
505					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
506					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
507					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
508					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
509					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
510					1E42YB-V-UUM	CONT-LEAK	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO
511					RA-1-1-27H	SUR-003-L	IE-T3	LAK10RCA-ROO-LFO	LAK10RCA-ROO-LFO

512	257	6	3.07E-10	0.98894	1E8235A-B-UJM	* CONT-LEAK	* IE-T3	* LAK9BRCB-ROO-LFO *
513					RA-1-1-27H	* SUR-003-L	+	
514	256	6	3.07E-10	0.98906	1E8235A-B-UJM	* CONT-LEAK	* IE-T3	* LAK188RB-AJO-LFO *
515					RA-1-1-27H	* SUR-003-L	+	
516	269	6	3.02E-10	0.98917	1E8235A-B-UJM	* CONT-LEAK		* LAK9BRCB-ROO-LFO *
517					RA-1-1-27H	* SUR-003-L		
518	268	6	3.02E-10	0.98928	1E8236B-B-UJM	* CONT-LEAK		LAK18ARA-ROO-LFO *
519					RA-1-1-27H	* SUR-003-L		
520	267	6	3.02E-10	0.98939	1E41YA-V-UJM	* CONT-LEAK		LAK9BRCB-ROO-LFO *
521					RA-1-1-27H	* SUR-003-L		
522	266	6	3.02E-10	0.98951	1E8235A-B-UJM	* CONT-LEAK		LAK188RB-ROO-LFO *
523					RA-1-1-27H	* SUR-003-L		
524	265	6	3.02E-10	0.98962	1E8236B-B-UJM	* CONT-LEAK		LAK10RCA-ROO-LFO *
525					RA-1-1-27H	* SUR-003-L		
526	264	6	3.02E-10	0.98973	1E42YB-V-UJM	* CONT-LEAK	* IE-T5	* LAK18ARA-ROO-LFO *
527					RA-1-1-27H	* SUR-003-L		
528	263	6	3.02E-10	0.98984	1E42YB-V-UJM	* CONT-LEAK	* IE-T5	* LAK10RCA-ROO-LFO *
529					RA-1-1-27H	* SUR-003-L		
530	262	6	3.02E-10	0.98995	1E41YA-V-UJM	* CONT-LEAK	* IE-T5	* LAK188RB-ROO-LFO *
531					RA-1-1-27H	* SUR-003-L		
532	261	6	3.02E-10	0.99006	1E8236B-B-UJM	* CONT-LEAK	* IE-T5	* LAK9ARCA-ROO-LFO *
533					RA-1-1-27H	* SUR-003-L		
534	260	6	3.02E-10	0.99018	1E42YB-V-UJM	* CONT-LEAK	* IE-T5	* LAK9ARCP-ROO-LFO *
535					RA-1-1-27H	* SUR-003-L		
536	271	6	2.78E-10	0.99028	1E8236B-BCO-LF	* CONT-LEAK	* IE-T1	* LAK3ARCA-RCD-LFO *
537					RA-1-1-27H	* SUR-003-L		
538	270	6	2.78E-10	0.99038	1E8235A-BCO-LF	* CONT-LEAK	* IE-T1	* LAK3BRCB-RCD-LFO *
539					RA-1-1-27H	* SUR-003-L		
540	281	6	2.62E-10	0.99048	1E41YA-V-UJM	* CONT-LEAK	* IE-T2	* LAK9BRCB-ROO-LFO *
541					RA-1-1-27H	* SUR-003-L		
542	280	6	2.62E-10	0.99057	1E8235A-B-UJM	* CONT-LEAK	* IE-T2	* LAK188RB-ROO-LFO *
543					RA-1-1-27H	* SUR-003-L		
544	279	6	2.62E-10	0.99067	1E41YA-V-UJM	* CONT-LEAK	* IE-T2	* LAK188RB-ROO-LFO *
545					RA-1-1-27H	* SUR-003-L		
546	278	6	2.62E-10	0.99077	1E8236B-B-UJM	* CONT-LEAK	* IE-T2	* LAK18ARA-ROO-LFO *
547					RA-1-1-27H	* SUR-003-L		
548	277	6	2.62E-10	0.99087	1E8236B-B-UJM	* CONT-LEAK	* IE-T2	* LAK10RCA-ROO-LFO *
549					RA-1-1-27H	* SUR-003-L		
550	276	6	2.62E-10	0.99096	1E42YB-V-UJM	* CONT-LEAK	* IE-T2	* LAK9ARCA-ROO-LFO *
551					RA-1-1-27H	* SUR-003-L		
552	275	6	2.62E-10	0.99106	1E42YB-V-UJM	* CONT-LEAK	* IE-T2	* LAK10RCA-ROO-LFO *
553					RA-1-1-27H	* SUR-003-L		
554	274	6	2.62E-10	0.99116	1E42YB-V-UJM	* CONT-LEAK	* IE-T2	* LAK18ARA-ROO-LFO *
555					RA-1-1-27H	* SUR-003-L		
556	273	6	2.62E-10	0.99125	1E8236B-B-UJM	* CONT-LEAK	* IE-T2	* LAK9ARCA-ROO-LFO *
557					RA-1-1-27H	* SUR-003-L		
558	272	6	2.62E-10	0.99135	1E8235A-B-UJM	* CONT-LEAK	* IE-T2	* LAK9BRCB-ROO-LFO *
559					RA-1-1-27H	* SUR-003-L		
560	294	7	2.45E-10	0.99144	1E826YB-BCO-LF	* CONT-LEAK	* IE-T1	* RA-5V-1-2H *
561					RRC02AA-P-UJM	* SCSP06AA-DENER	* SUR-003-L	+

SEQUENCE T20

TOP EVENT CPDSB2-T-SEQ2B CONTAINS 193 EVENTS IN 896 CUT SETS

THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ2B IS 4.81E-07

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ2B

N	300
MEAN	1.28E-06
STD DEV	6.08E-06
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	8.03E-06

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE T20  
RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-021-R	820	8.50E-02 ( 16.0)	4.62E-07 ( 1.0)	0.00E+00	7.96E-06
RA-NONE	156	1.00E+00 ( 6.5)	4.05E-07 ( 2.0)	0.00E+00	1.92E-06
1EB236B-BCO-LF	120	7.20E-05 (175.5)	3.15E-07 ( 3.0)	0.00E+00	3.36E-07
RHR01AX-HTX-LFB	17	6.20E-03 ( 35.5)	6.64E-08 ( 4.0)	0.00E+00	3.67E-07
CSC0300A-PLG-LF	33	1.20E-03 ( 76.0)	3.90E-08 ( 5.0)	0.00E+00	2.15E-07
RA-1-1-27H	334	2.10E-03 ( 71.0)	3.69E-08 ( 6.0)	0.00E+00	1.84E-07
SCSF66AA-DENER	20	1.00E+00 ( 6.5)	3.23E-08 ( 7.0)	0.00E+00	1.84E-07
LCSC002A-P-UJM	17	3.00E-03 ( 43.5)	3.21E-08 ( 8.5)	0.00E+00	1.07E-07
RHRC02AA-P-UJM	17	3.00E-03 ( 43.5)	2.42E-08 ( 10.5)	0.00E+00	1.07E-07
RHRC02AA-P-NDUJH	8	3.00E-03 ( 43.5)	2.42E-08 ( 10.5)	0.00E+00	2.52E-07
CODG01P-P-UJM	8	3.00E-03 ( 43.5)	2.20E-08 ( 12.0)	0.00E+00	1.13E-07
1E42Y8-V-UJM	19	1.00E-04 (157.5)	2.01E-08 ( 14.0)	0.00E+00	1.13E-07
NWVY01CA-FMS-CC	8	2.50E-03 ( 62.0)	2.01E-08 ( 14.0)	0.00E+00	1.13E-07
CODG01P-PMS-CC	8	2.50E-03 ( 62.0)	2.01E-08 ( 14.0)	0.00E+00	1.29E-07
RHR01AA-B00-CC	8	2.50E-03 ( 62.0)	1.97E-08 ( 16.0)	0.00E+00	2.04E-07
RA-2-11-27H	141	1.60E-03 ( 74.0)	1.91E-08 ( 17.0)	0.00E+00	1.88E-07
SUR-022-R	76	9.30E-02 ( 15.0)	1.79E-08 ( 18.0)	0.00E+00	1.45E-07
RA-MSDV-1-2H	169	2.10E-03 ( 71.0)	1.51E-08 ( 19.0)	0.00E+00	1.45E-07
1EB236B-B-UJM	18	1.00E-04 (157.5)	1.26E-08 ( 20.0)	0.00E+00	1.32E-07
1EB235A-BCO-LF	118	7.20E-05 (175.5)	1.18E-08 ( 21.5)	0.00E+00	9.47E-08
CODG01P-PMS-LF	17	1.10E-03 ( 79.5)	1.18E-08 ( 21.5)	0.00E+00	9.47E-08
RHRC02AA-PMS-LF	17	1.10E-03 ( 79.5)	1.10E-08 ( 23.0)	0.00E+00	1.18E-07
FLOW-RHR-A3	87	1.00E+00 ( 6.5)	9.78E-09 ( 24.0)	0.00E+00	1.66E-07
1EB36YB-BCO-LF	120	7.20E-05 (175.5)	8.93E-09 ( 25.0)	0.00E+00	1.16E-07
1EB16211-BCO	3	8.40E-05 (163.5)	8.93E-09 ( 26.0)	0.00E+00	1.07E-07
1EB16212-BCO	2	8.40E-05 (163.5)	8.15E-09 ( 27.5)	0.00E+00	1.07E-07
1EB36Y1X-BCO-LF	2	7.20E-05 (175.5)	8.15E-09 ( 27.5)	0.00E+00	6.21E-08
1EB30X6-BCO-LF	2	7.20E-05 (175.5)	7.73E-09 ( 29.0)	0.00E+00	9.73E-08
OPFAIL-VENT-2H	260	2.10E-03 ( 71.0)	7.05E-09 ( 30.0)	0.00E+00	2.10E-08
EE-CSCD300A-PLG	2	7.20E-04 ( 85.0)	6.44E-09 ( 31.0)	0.00E+00	3.42E-08
LAK18ARA-R00-LFO	58	2.00E-02 ( 26.0)	6.21E-09 ( 32.0)	0.00E+00	1.98E-08
CODG01F-PLG-LF	23	5.80E-04 ( 93.5)	6.04E-09 ( 33.5)	0.00E+00	1.98E-08
LAK9ARCA-R00-LFO	58	2.00E-02 ( 26.0)	6.04E-09 ( 33.5)	0.00E+00	1.98E-08
LAK10RCA-R00-LFO	58	2.00E-02 ( 26.0)	6.04E-09 ( 35.5)	0.00E+00	1.98E-08
LAK9RRCB-R00-LFO	52	2.00E-02 ( 26.0)	6.04E-09 ( 35.5)	0.00E+00	1.98E-08
LAK18R8B-R00-LFO	52	2.00E-02 ( 26.0)	5.98E-09 ( 37.0)	0.00E+00	4.23E-08
NWVY01AX-ACX-LF1	6	8.40E-04 ( 82.5)	5.89E-09 ( 38.0)	0.00E+00	2.52E-08
FLOW-RHR-B3	76	1.00E+00 ( 6.5)	5.36E-09 ( 40.0)	0.00E+00	2.41E-08
RHR01AA-B00-LF	16	5.00E-04 (101.0)	5.36E-09 ( 40.0)	0.00E+00	2.41E-08
RHRF4BA-V00-LF	16	5.00E-04 (101.0)	5.36E-09 ( 40.0)	0.00E+00	1.55E-08
CSCF068A-VCC-LF	16	5.00E-04 (101.0)	4.60E-09 ( 42.0)	0.00E+00	1.55E-08
LAK93ARC-R00-LFO	54	2.00E-02 ( 26.0)	4.60E-09 ( 43.0)	0.00E+00	1.55E-08
LAK93BRC-R00-LFO	48	2.00E-02 ( 26.0)	3.74E-09 ( 45.0)	0.00E+00	1.36E-08
LAK14ARC-R00-LFO	16	2.00E-02 ( 26.0)	3.74E-09 ( 45.0)	0.00E+00	1.36E-08
NOFLOW-SPC-ASX	16	1.00E+00 ( 6.5)	3.74E-09 ( 45.0)	0.00E+00	1.36E-08

NOFLOW-CSS-A7A	16	1.00E+00	( 6.5)	3.74E-09	( 45.0)	0.00E+00	1.36E-08
NOFLOW-SPC-B5X	12	1.00E+00	( 6.5)	3.74E-09	( 48.0)	0.00E+00	1.97E-08
NOFLOW-CSS-B7A	12	1.00E+00	( 6.5)	3.74E-09	( 48.0)	0.00E+00	1.36E-08
LAK14BRC-RCO-LFO	12	2.00E-02	( 26.0)	3.74E-09	( 48.0)	0.00E+00	1.36E-08
RHRH01BX-HTX-LFB	14	6.20E-03	( 35.5)	2.90E-09	( 50.0)	0.00E+00	1.97E-08
SCSF06BB-DENER	17	1.00E+00	( 6.5)	1.60E-09	( 51.0)	0.00E+00	9.19E-09
1E41YA-V-UJM	14	1.00E-04	( 157.5)	1.58E-09	( 52.5)	0.00E+00	9.19E-09
1EB235A-B-UJM	14	1.00E-04	( 157.5)	1.58E-09	( 52.5)	0.00E+00	9.19E-09
RHRC02BB-P-UJM	14	3.00E-03	( 43.5)	1.40E-09	( 54.0)	0.00E+00	1.03E-08
NOFLOW-RHR-A1	13	1.00E+00	( 6.5)	1.20E-09	( 55.0)	0.00E+00	4.42E-09
RHR301AX-STR	12	1.10E-04	( 148.5)	1.18E-09	( 56.0)	0.00E+00	5.37E-09
1EB235XA-BCC-LF	21	7.20E-05	( 175.5)	1.03E-09	( 57.0)	0.00E+00	5.35E-09
1EB235YA-BCC-LF	13	7.20E-05	( 175.5)	1.02E-09	( 58.0)	0.00E+00	5.35E-09
1EB35Y2X-BCC-LF	3	7.20E-05	( 175.5)	1.01E-09	( 59.0)	0.00E+00	5.31E-09
LAK3ARCA-RCC-LFO	15	3.40E-03	( 37.5)	8.34E-10	( 61.0)	0.00E+00	2.54E-09
LAK3BRCB-RCC-LFO	11	3.40E-03	( 37.5)	8.33E-10	( 61.0)	0.00E+00	2.54E-09
RHRC003B-P-UJM	11	3.00E-03	( 43.5)	7.35E-10	( 62.0)	0.00E+00	5.30E-09
RA-7-1-27H	7	2.10E-03	( 71.0)	7.23E-10	( 64.0)	0.00E+00	5.30E-09
RA-5V-1-ZH	163	2.10E-03	( 71.0)	7.23E-10	( 64.0)	0.00E+00	5.30E-09
C2DG01P-P-UJM	7	3.00E-03	( 43.5)	7.19E-10	( 65.5)	0.00E+00	3.36E-09
RHRC02BB-P-UJM	7	3.00E-03	( 43.5)	7.19E-10	( 65.5)	0.00E+00	4.11E-09
LAK9ACP3-LF00	8	2.90E-03	( 51.0)	6.95E-10	( 68.0)	0.00E+00	2.52E-09
LAK18ACP1-LF00	8	2.90E-03	( 51.0)	6.95E-10	( 68.0)	0.00E+00	2.52E-09
LAK10ACP9-LF00	8	2.90E-03	( 51.0)	6.95E-10	( 68.0)	0.00E+00	2.52E-09
LAK98CP3-LF00	7	2.90E-03	( 51.0)	6.95E-10	( 70.5)	0.00E+00	2.52E-09
LAK188CP1-LF00	7	2.90E-03	( 51.0)	6.95E-10	( 70.5)	0.00E+00	2.52E-09
CSCD300B-PLG-LF	30	1.20E-03	( 76.0)	6.40E-10	( 72.0)	0.00E+00	2.71E-09
RHRB018B-BCC-CC	7	2.50E-03	( 62.0)	5.99E-10	( 74.0)	0.00E+00	3.33E-09
SEVY03CB-FMS-CC	7	2.50E-03	( 62.0)	5.99E-10	( 74.0)	0.00E+00	3.33E-09
C2DG01P-PMS-CC	7	2.50E-03	( 62.0)	5.99E-10	( 74.0)	0.00E+00	3.33E-09
CCB0001P-BCC-LF	3	8.40E-05	( 163.5)	5.98E-10	( 76.0)	0.00E+00	3.15E-09
LAK93ACP3-LFCC	8	2.90E-03	( 51.0)	5.29E-10	( 77.0)	0.00E+00	2.63E-09
LAK93BCP3-LFCC	7	2.90E-03	( 51.0)	5.29E-10	( 78.0)	0.00E+00	2.63E-09
C2DG01P-PMS-LF	14	1.10E-03	( 79.5)	5.15E-10	( 79.5)	0.00E+00	3.96E-09
RHRC02BB-PMS-LF	14	1.10E-03	( 79.5)	5.15E-10	( 79.5)	0.00E+00	3.96E-09
1EB1Y2X-BCC	2	7.20E-05	( 175.5)	4.97E-10	( 81.5)	0.00E+00	1.98E-09
1EB211YX-BLO-LF	2	7.20E-05	( 175.5)	4.97E-10	( 81.5)	0.00E+00	1.98E-09
1EB212YX-BCC-LF	1	7.20E-05	( 175.5)	4.96E-10	( 83.5)	0.00E+00	1.98E-09
1EB2Y2X-BCC	1	7.20E-05	( 175.5)	4.96E-10	( 83.5)	0.00E+00	1.98E-09
CSCF068A-VCC-CC	8	2.50E-03	( 62.0)	4.56E-10	( 85.5)	0.00E+00	3.62E-09
RHRF4BAA-VCC-CC	8	2.50E-03	( 62.0)	4.56E-10	( 85.5)	0.00E+00	3.62E-09
CSCF068B-VCC-CC	7	2.50E-03	( 62.0)	4.56E-10	( 87.5)	0.00E+00	3.62E-09
RHRF4BBB-VCC-CC	7	2.50E-03	( 62.0)	4.56E-10	( 87.5)	0.00E+00	3.62E-09
1E36YB-V-UJM	18	1.00E-04	( 157.5)	4.33E-10	( 89.0)	0.00E+00	1.74E-09
C2DG01F-PLG-LF	21	5.80E-04	( 93.5)	2.72E-10	( 90.0)	0.00E+00	9.67E-10
RHRB018B-BCC-LF	13	5.00E-04	( 101.0)	2.34E-10	( 92.0)	0.00E+00	1.01E-09
CSCF068B-VCC-LF	13	5.00E-04	( 101.0)	2.34E-10	( 92.0)	0.00E+00	9.17E-10
RHRF488B-VCC-LF	13	5.00E-04	( 101.0)	2.34E-10	( 92.0)	0.00E+00	9.17E-10
SEVY03AX-ACC-LF1	6	7.40E-04	( 82.5)	2.00E-10	( 94.0)	0.00E+00	1.31E-09
EE-CSCD300B-PLG	5	7.20E-04	( 85.0)	1.77E-10	( 95.0)	0.00E+00	1.52E-09
EE-C2DG01F-PLG	4	7.20E-04	( 85.0)	1.77E-10	( 96.0)	0.00E+00	1.52E-09
AP040X4CP1-LFCC	1	6.60E-04	( 89.5)	1.47E-10	( 99.5)	0.00E+00	1.28E-09

APO37X4CP1-LFCO	1	6.60E-04 ( 89.5)	1.47E-10 ( 99.5)	0.00E+00	1.28E-09
LAK3ARCCKP1-LFCO	1	6.60E-04 ( 89.5)	1.47E-10 ( 99.5)	0.00E+00	1.28E-09
LAK3BRCKCP1-LFCO	1	6.60E-04 ( 89.5)	1.47E-10 ( 99.5)	0.00E+00	1.28E-09
LAK2BXXCP4-LFCO	1	6.60E-04 ( 89.5)	1.47E-10 ( 99.5)	0.00E+00	1.28E-09
LAK2BACKCPA-LFCO	1	6.60E-04 ( 89.5)	1.47E-10 ( 99.5)	0.00E+00	1.28E-09
LPCI-PMS-CH	3	2.50E-03 ( 62.0)	1.42E-10 (103.5)	0.00E+00	7.50E-10
LPCI-BETA	3	1.10E-01 ( 14.0)	1.42E-10 (103.5)	0.00E+00	7.50E-10
NWY01CA-PMS-LF	1	5.40E-04 ( 95.5)	1.20E-10 (105.5)	0.00E+00	1.05E-09
SEVY03CB-PMS-LF	1	5.40E-04 ( 95.5)	1.20E-10 (105.5)	0.00E+00	1.05E-09
2DG1PK18-ROO-LFO	1	5.00E-04 (101.0)	1.12E-10 (108.0)	0.00E+00	3.90E-10
NWY01CA-F-UJM	1	5.00E-04 (101.0)	1.12E-10 (108.0)	0.00E+00	9.87E-10
SEVY03CB-F-UJM	1	5.00E-04 (101.0)	1.12E-10 (108.0)	0.00E+00	9.87E-10
NLOSP	28	1.00E+00 ( 6.5)	9.43E-11 (110.0)		
LAK7DARA-ROO-LFO	1	2.00E-02 ( 26.0)	8.92E-11 (112.5)	0.00E+00	1.31E-10
LAK706RB-ROO-LFO	1	2.00E-02 ( 26.0)	8.92E-11 (112.5)	0.00E+00	1.31E-10
LAK28RCB-RCO-LFO	1	2.00E-02 ( 26.0)	8.92E-11 (112.5)	0.00E+00	1.31E-10
LAK2ARCA-RCO-LFO	1	2.00E-02 ( 26.0)	8.92E-11 (112.5)	0.00E+00	1.31E-10
LPCI-MOV-BETA	6	3.00E-02 ( 17.0)	7.76E-11 (115.0)	0.00E+00	3.49E-10
MOFLOW-RHR-B1	8	1.00E+00 ( 6.5)	7.60E-11 (116.0)		
PC02AAX-AOO-LFO	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
NWY01AX-A-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.43E-10
CSCF065B-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
2DG01PSC-000-LFO	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
2DG01PK18CA-LFCO	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
CSCF008A-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
CSCD309B-S-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.43E-10
RHRF656B-N-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF608B-S-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
CSCD300A-S-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.43E-10
SEVY03AX-A-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.43E-10
SCSF065B-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
SCSF06AA-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHR018X-H-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.43E-10
RHR01AX-H-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.43E-10
RHRF888X-R-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF88AX-R-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF875B-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF87AA-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF745B-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF74AA-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF65AA-N-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF646B-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF64AA-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF60AA-S-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF558X-R-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF55AX-R-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF51AA-N-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
C2DG01F-S-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.43E-10
RHRF486B-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF48AA-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF476B-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10
RHRF47AA-V-UJM	1	3.00E-04 (125.0)	6.69E-11 (134.0)	0.00E+00	2.73E-10

RHRF518B-N-UJM	1	3.00E-04	(125.0)	6.69E-11	(134.0)	0.00E+00	2.73E-10
COO001F-S-UJM	1	3.00E-04	(125.0)	6.69E-11	(134.0)	0.00E+00	2.43E-10
LCSC002A-RUM-1	1	3.30E-04	(106.5)	5.61E-11	(152.5)	0.00E+00	1.81E-10
RHR0003B-RUP-1	1	3.30E-04	(106.5)	5.61E-11	(152.5)	0.00E+00	1.81E-10
1E8422B-BCO-LF	16	7.20E-05	(175.5)	5.44E-11	(154.0)	0.00E+00	9.72E-11
RHR3018X-STR	7	1.10E-04	(148.5)	5.15E-11	(155.0)	0.00E+00	3.57E-10
1E8412A-BCO-LF	12	7.20E-05	(175.5)	3.99E-11	(156.0)	0.00E+00	7.21E-11
LPCI-MOV-CM2	3	2.50E-03	(62.0)	3.88E-11	(157.5)	0.00E+00	1.74E-10
LPCI-MOV-CM1	3	2.50E-03	(62.0)	3.88E-11	(157.5)	0.00E+00	1.74E-10
TDRFP-T-OE-27H	276	2.60E-03	(55.0)	3.61E-11	(159.0)	0.00E+00	7.47E-11
1EDC2DEP-FRP-27H	6	3.20E-03	(39.0)	3.28E-11	(160.0)	0.00E+00	4.08E-11
1EB36YB-B-UJM	18	1.00E-04	(157.5)	3.18E-11	(161.0)	0.00E+00	1.46E-10
DG2A-GEN-LF-FTS	8	2.50E-02	(18.5)	3.09E-11	(162.0)	0.00E+00	5.35E-11
LAS448X-QCO-LFO	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	1.87E-10
LAS44AX-QCO-LFO	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	1.87E-10
RHRF98BX-XOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
RHRF98AX-XOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
RHRF478B-VOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
RHRF47AA-VOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
RHRF048B-VOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
RHRF04AA-VOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
RHRF038B-VOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
RHRF03AA-VOC-LF	1	1.10E-04	(148.5)	2.45E-11	(167.5)	0.00E+00	2.77E-10
DG2A-GEN-LF-FTR	8	1.90E-02	(33.5)	2.35E-11	(173.0)	0.00E+00	1.69E-11
DG0-GEN-LF-FTS	6	2.50E-02	(18.5)	2.27E-11	(174.0)	0.00E+00	4.51E-11
CCB2DG1P-BCO-LF	2	8.40E-05	(163.5)	2.00E-11	(175.0)	0.00E+00	8.64E-11
DG0-GEN-LF-FTR	6	1.90E-02	(33.5)	1.72E-11	(176.0)	0.00E+00	1.15E-11
SEVB001X-BCO-LF	2	7.20E-05	(175.5)	1.71E-11	(177.5)	0.00E+00	7.49E-11
1EB2Y4X-BCO	2	7.20E-05	(175.5)	1.71E-11	(177.5)	0.00E+00	7.49E-11
1EB1Y1X-BCO	3	7.20E-05	(175.5)	1.61E-11	(179.0)	0.00E+00	7.33E-11
NWB001X-BCO-LF	1	7.20E-05	(175.5)	1.61E-11	(180.0)	0.00E+00	7.32E-11
CCB068A-BCO-LF	3	8.40E-05	(163.5)	1.52E-11	(181.0)	0.00E+00	5.15E-11
CSCB068X-BCO-LF	2	8.40E-05	(163.5)	1.52E-11	(182.0)	0.00E+00	5.15E-11
CSCD300B-8F-CC	1	1.20E-03	(76.0)	1.93E-13	(183.0)	0.00E+00	4.98E-13
CONT-LEAK	896	7.50E-01	(13.0)	-1.44E-06	(184.0)	0.00E+00	0.00E+00



SEQUENCE T20  
RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%
1EB236B-BCO-LF	120	7.20E-05 (175.5)	4.37E-03 ( 1.0)	0.00E+00	1.28E-01
1E42YB-V-UUM	19	1.00E-04 (157.5)	2.20E-04 ( 2.0)	0.00E+00	4.12E-03
1EB235A-BCO-LF	118	7.20E-05 (175.5)	1.75E-04 ( 3.0)	0.00E+00	4.94E-03
1EB236B-8-UUM	18	1.00E-04 (157.5)	1.51E-04 ( 4.0)	0.00E+00	2.88E-03
1EB36YB-BCO-LF	120	7.20E-05 (175.5)	1.36E-04 ( 5.0)	0.00E+00	3.58E-03
1EB36XB-BCO-LF	2	7.20E-05 (175.5)	1.13E-04 ( 6.5)	0.00E+00	3.15E-03
1EB36YX-BCO-LF	2	7.20E-05 (175.5)	1.13E-04 ( 6.5)	0.00E+00	3.15E-03
1EB16211-BCO	3	8.40E-05 (163.5)	1.06E-04 ( 8.0)	0.00E+00	3.06E-03
1EB16212-BCO	2	8.40E-05 (163.5)	1.06E-04 ( 8.0)	0.00E+00	3.06E-03
CSCD300A-PLG-LF	33	1.20E-03 ( 76.0)	3.24E-05 ( 10.0)	0.00E+00	7.98E-04
RA-1-1-27H	334	2.10E-03 ( 71.0)	1.75E-05 ( 11.0)	0.00E+00	2.67E-04
1EB235A-B-UUM	14	1.00E-04 (157.5)	1.58E-05 ( 12.5)	0.00E+00	1.25E-04
1E41YA-V-UUM	14	1.00E-04 (157.5)	1.58E-05 ( 12.5)	0.00E+00	1.25E-04
1EB235XA-BCO-LF	21	7.20E-05 (175.5)	1.43E-05 ( 14.0)	0.00E+00	1.63E-04
1EB235YA-BCO-LF	13	7.20E-05 (175.5)	1.42E-05 ( 15.0)	0.00E+00	1.46E-04
1EB35Y2X-BCO-LF	3	7.20E-05 (175.5)	1.40E-05 ( 16.0)	0.00E+00	1.41E-04
RA-2-11-27H	141	1.60E-03 ( 74.0)	1.23E-05 ( 17.0)	0.00E+00	1.66E-04
RHR301AX-STR	12	1.10E-04 (148.5)	1.07E-05 ( 18.0)	0.00E+00	1.14E-04
CODG01P-PLG-LF	23	5.80E-04 ( 93.5)	1.07E-05 ( 20.5)	0.00E+00	1.14E-04
CSCF048A-VCC-LF	16	5.00E-04 (101.0)	1.07E-05 ( 20.5)	0.00E+00	1.14E-04
RHRF40AA-V00-LF	16	5.00E-04 (101.0)	1.07E-05 ( 20.5)	0.00E+00	1.14E-04
RHRB01AA-B00-LF	16	5.00E-04 (101.0)	1.07E-05 ( 20.5)	0.00E+00	1.14E-04
CODG01P-PMS-LF	17	1.10E-03 ( 79.5)	1.07E-05 ( 23.5)	0.00E+00	1.13E-04
RHR02AA-PMS-LF	17	1.10E-03 ( 79.5)	1.07E-05 ( 23.5)	0.00E+00	1.14E-04
RHR02AA-P-UUM	17	3.00E-03 ( 43.5)	1.07E-05 ( 25.5)	0.00E+00	1.13E-04
LCSC002A-P-UUM	17	3.00E-03 ( 43.5)	1.07E-05 ( 25.5)	0.00E+00	1.13E-04
RHR01AX-HTX-LFB	+7	6.20E-03 ( 35.5)	1.06E-05 ( 27.0)	0.00E+00	1.13E-04
EE-CSCD300A-PLG	2	7.20E-04 ( 85.0)	9.78E-06 ( 28.0)	0.00E+00	2.18E-04
RA-MSLDV-1-2H	169	2.10E-03 ( 71.0)	8.50E-06 ( 29.0)	0.00E+00	2.02E-04
CODG01P-PMS-CC	8	2.50E-03 ( 62.0)	8.04E-06 ( 31.0)	0.00E+00	7.80E-05
NHVV01CA-FMS-CC	8	2.50E-03 ( 62.0)	8.04E-06 ( 31.0)	0.00E+00	7.80E-05
RHRB01AA-B00-CC	8	2.50E-03 ( 62.0)	8.04E-06 ( 31.0)	0.00E+00	7.80E-05
RHR02AA-P-UUM	8	3.00E-03 ( 43.5)	8.03E-06 ( 33.5)	0.00E+00	7.81E-05
CODG01P-P-UUM	8	3.00E-03 ( 43.5)	8.03E-06 ( 33.5)	0.00E+00	7.81E-05
CCB00061P-BCO-LF	3	8.40E-05 (163.5)	7.12E-06 ( 35.0)	0.00E+00	7.30E-05
NHVV01AX-ACX-LF1	6	8.40E-05 (163.5)	7.12E-06 ( 36.0)	0.00E+00	7.28E-05
1EB1Y22X-BCO	2	7.20E-05 (175.5)	6.90E-06 ( 37.5)	0.00E+00	6.19E-05
1EB211YX-BCO-LF	2	7.20E-05 (175.5)	6.90E-06 ( 37.5)	0.00E+00	6.19E-05
1EB212YX-BCO-LF	1	7.20E-05 (175.5)	6.88E-06 ( 39.5)	0.00E+00	6.14E-05
1EB2Y22X-BCO	1	7.20E-05 (175.5)	6.88E-06 ( 39.5)	0.00E+00	6.14E-05
SUR-021-R	820	8.50E-02 ( 16.0)	4.97E-06 ( 41.0)	0.00E+00	1.21E-05
1E36YB-V-UUM	18	1.00E-04 (157.5)	4.33E-06 ( 42.0)	0.00E+00	2.95E-05
OP FAIL-VENT-2H	260	2.10E-03 ( 71.0)	3.67E-06 ( 43.0)	0.00E+00	8.98E-05
1EB422B-BCO-LF	16	7.20E-05 (175.5)	7.55E-07 ( 44.0)	0.00E+00	4.30E-06
1EB412A-BCO-LF	12	7.20E-05 (175.5)	5.54E-07 ( 45.0)	0.00E+00	3.38E-06

CSD03008-PLG-LF	30	1.20E-03 ( 76.0)	5.35E-07 ( 46.0)	0.00E+00	5.72E-06
CZ0G01F-PLG-LF	21	5.80E-04 ( 93.5)	4.69E-07 ( 47.0)	0.00E+00	4.90E-06
RHR3018X-STR	7	1.10E-04 (148.5)	4.68E-07 ( 48.0)	0.00E+00	4.90E-06
CSCF0488-VCC-LF	13	5.00E-04 (101.0)	4.68E-07 ( 50.0)	0.00E+00	4.90E-06
RHR8018B-BOG-LF	13	5.00E-04 (101.0)	4.68E-07 ( 50.0)	0.00E+00	4.90E-06
RHRF488B-VOC-LF	13	5.00E-04 (101.0)	4.68E-07 ( 50.0)	0.00E+00	4.90E-06
CZ0G01P-PMS-LF	14	1.10E-03 ( 79.5)	4.67E-07 ( 52.5)	0.00E+00	4.90E-06
RHR028B-PMS-LF	14	1.10E-03 ( 79.5)	4.67E-07 ( 52.5)	0.00E+00	4.90E-06
RHR028B-P-UUM	14	3.00E-03 ( 43.5)	4.67E-07 ( 54.0)	0.00E+00	4.90E-06
RHR018X-HTX-LFB	14	6.20E-03 ( 35.5)	4.65E-07 ( 53.0)	0.00E+00	4.90E-06
RA-7-1-27H	7	2.10E-03 ( 71.0)	3.49E-07 ( 56.0)	0.00E+00	4.15E-06
RA-5V-1-2H	163	2.10E-03 ( 71.0)	3.44E-07 ( 57.0)	0.00E+00	3.56E-06
TEB36YB-B-UUM	18	1.00E-04 (157.5)	3.18E-07 ( 58.0)	0.00E+00	1.70E-06
LAK18ARA-ROO-LFO	58	2.00E-02 ( 26.0)	3.16E-07 ( 59.0)	0.00E+00	3.80E-06
LAK9ARCA-ROO-LFO	58	2.00E-02 ( 26.0)	2.96E-07 ( 60.5)	0.00E+00	3.42E-06
LAK108CA-ROO-LFO	58	2.00E-02 ( 26.0)	2.96E-07 ( 60.5)	0.00E+00	3.42E-06
LAK168RB-ROO-LFO	52	2.00E-02 ( 26.0)	2.96E-07 ( 61.5)	0.00E+00	3.42E-06
LAK98FCB-ROO-LFO	52	2.00E-02 ( 26.0)	2.96E-07 ( 62.5)	0.00E+00	3.42E-06
EE-CSD3008-PLG	5	7.20E-04 ( 85.0)	2.46E-07 ( 64.0)	0.00E+00	2.85E-06
EE-CZ0G01F-PLG	4	7.20E-04 ( 85.0)	2.46E-07 ( 65.0)	0.00E+00	2.85E-06
RHR003B-P-UUM	11	3.00E-03 ( 43.5)	2.44E-07 ( 66.0)	0.00E+00	2.62E-06
LAK3ARCA-ROO-LFO	15	3.40E-03 ( 37.5)	2.44E-07 ( 67.0)	0.00E+00	2.62E-06
LAK38RCB-ROO-LFO	11	3.40E-03 ( 37.5)	2.44E-07 ( 68.0)	0.00E+00	2.62E-06
RHR8018B-BOG-CC	7	2.50E-03 ( 62.0)	2.39E-07 ( 70.0)	0.00E+00	2.57E-06
CZ0G01P-PMS-CC	7	2.50E-03 ( 62.0)	2.39E-07 ( 70.0)	0.00E+00	2.57E-06
SEVY03CB-FMS-CC	7	2.50E-03 ( 62.0)	2.39E-07 ( 70.0)	0.00E+00	2.57E-06
LAK9ACP3-LFOO	8	2.90E-03 ( 51.0)	2.39E-07 ( 73.0)	0.00E+00	2.56E-06
LAK18ACP1-LFOO	8	2.90E-03 ( 51.0)	2.39E-07 ( 73.0)	0.00E+00	2.56E-06
LAK10ACP9-LFOO	8	2.90E-03 ( 51.0)	2.39E-07 ( 73.0)	0.00E+00	2.56E-06
LAK12BCP1-LFOO	7	2.90E-03 ( 51.0)	2.39E-07 ( 75.5)	0.00E+00	2.56E-06
LAK98CP3-LFOO	7	2.90E-03 ( 51.0)	2.39E-07 ( 75.5)	0.00E+00	2.56E-06
CZ0G01P-P-UUM	7	3.00E-03 ( 43.5)	2.39E-07 ( 77.5)	0.00E+00	2.56E-06
RHR028B-P-UUM	7	3.00E-03 ( 43.5)	2.39E-07 ( 77.5)	0.00E+00	2.56E-06
TEB2Y4X-BCO	2	7.20E-05 (175.5)	2.38E-07 ( 79.5)	0.00E+00	2.49E-06
SEV8001X-BCO-LF	2	7.20E-05 (175.5)	2.38E-07 ( 79.5)	0.00E+00	2.49E-06
CS820G1P-BCO-LF	2	8.40E-05 (163.5)	2.38E-07 ( 81.0)	0.00E+00	2.49E-06
SEVY03AX-ACX-LF1	6	8.40E-04 ( 82.5)	2.37E-07 ( 82.0)	0.00E+00	2.49E-06
LAK93ARC-ROO-LFO	54	2.00E-02 ( 26.0)	2.26E-07 ( 83.0)	0.00E+00	2.61E-06
LAK938RC-ROO-LFO	48	2.00E-02 ( 26.0)	2.26E-07 ( 84.0)	0.00E+00	2.61E-06
TEB1Y1X-BCO	3	7.20E-05 (175.5)	2.23E-07 ( 85.0)	0.00E+00	2.33E-06
NWV8001X-BCO-LF	1	7.20E-05 (175.5)	2.23E-07 ( 86.0)	0.00E+00	2.33E-06
RHRF048B-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
RHRF988X-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
LAS448X-BCO-LFO	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
LAS44AX-BCO-LFO	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
RHRF98AX-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
RHRF478B-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
RHRF47AA-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
RHRFD4AA-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
RHRF038B-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
RHRF03AA-VOC-LF	1	1.10E-04 (148.5)	2.23E-07 ( 91.5)	0.00E+00	2.33E-06
PC028AAX-BOG-LFO	1	3.00E-04 (125.0)	2.23E-07 (114.0)	0.00E+00	2.33E-06

2D601PSC-000-LFO	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
NWY01AX-A-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
CSCF068B-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
2D601PK18CA-LFO	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
CSCF008A-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
CSCD300B-S-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF58B-N-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
CSCD300A-S-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF87B-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
SEVY03AX-A-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
SCSF068B-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
SCSF068A-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRH018X-N-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRH01AX-N-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF608B-S-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF88B-R-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF88AX-R-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF87AA-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF74BB-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF74AA-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF65AA-N-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF64BB-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF64AA-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF60AA-S-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF55AX-R-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF55AX-R-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF51AA-N-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
L2D601F-S-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF51BB-N-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF488B-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF48AA-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF478B-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
RHRF47AA-V-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
CODG01F-S-UUM	1	3.00E-04	(125.0)	2.23E-07	(114.0)	0.00E+00	2.33E-06
2D61PK18-ROO-LFO	1	5.00E-04	(101.0)	2.23E-07	(133.0)	0.00E+00	2.33E-06
NWY01CA-F-UUM	1	5.00E-04	(101.0)	2.23E-07	(133.0)	0.00E+00	2.33E-06
SEVY03CB-F-UUM	1	5.00E-04	(101.0)	2.23E-07	(133.0)	0.00E+00	2.33E-06
NWY01CA-FMS-LF	1	5.40E-04	(95.5)	2.23E-07	(135.5)	0.00E+00	2.33E-06
SEVY03CB-FMS-LF	1	5.40E-04	(95.5)	2.23E-07	(135.5)	0.00E+00	2.33E-06
AP04DX4CP1-LFCO	1	6.60E-04	(89.5)	2.23E-07	(139.5)	0.00E+00	2.33E-06
AP037X4CP1-LFCO	1	6.60E-04	(89.5)	2.23E-07	(139.5)	0.00E+00	2.33E-06
LAK3BRCXCP1-LFCO	1	6.60E-04	(89.5)	2.23E-07	(139.5)	0.00E+00	2.33E-06
LAK3ARCXCP1-LFCO	1	6.60E-04	(89.5)	2.23E-07	(139.5)	0.00E+00	2.33E-06
LAK2BXCPC4-LFCO	1	6.60E-04	(89.5)	2.23E-07	(139.5)	0.00E+00	2.33E-06
LAK2BACXCP4-LFCO	1	6.60E-04	(89.5)	2.23E-07	(139.5)	0.00E+00	2.33E-06
SUR-022-R	76	9.30E-02	(15.0)	1.86E-07	(143.0)	0.00E+00	4.36E-07
LAK14ARC-RCO-LFO	12	2.00E-02	(26.0)	1.83E-07	(144.0)	0.00E+00	1.75E-06
LAK14BRC-RCO-LFO	16	2.00E-02	(26.0)	1.83E-07	(145.0)	0.00E+00	1.75E-06
CSCF068A-VCC-CC	8	2.50E-03	(62.0)	1.82E-07	(146.5)	0.00E+00	1.69E-06
RHRF48AA-V00-CC	8	2.50E-03	(62.0)	1.82E-07	(146.5)	0.00E+00	1.69E-06
CSCF068B-VCC-CC	7	2.50E-03	(62.0)	1.82E-07	(148.5)	0.00E+00	1.69E-06
RHRF488B-V00-CC	7	2.50E-03	(62.0)	1.82E-07	(148.5)	0.00E+00	1.69E-06

LAK93ACP3-LFCC	8	2.90E-03 ( 51.0)	1.82E-07 (150.0)	0.00E+00	1.68E-06
LAK93BCP3-LFCC	7	2.90E-03 ( 51.0)	1.62E-07 (151.0)	0.00E+00	1.60E-06
CSBF068A-BCO-LF	3	8.40E-05 (163.5)	1.81E-07 (152.0)	0.00E+00	1.51E-06
CSBF068X-BCO-LF	2	8.40E-05 (163.5)	1.81E-07 (153.0)	0.00E+00	1.61E-06
LCS0002A-RUM-1	1	3.30E-04 (106.5)	1.70E-07 (154.5)	0.00E+00	1.35E-06
RHF0003B-RUM-1	1	3.30E-04 (106.5)	1.70E-07 (154.5)	0.00E+00	1.35E-06
LPCI-PMS-CM	3	2.50E-03 ( 62.0)	5.67E-08 (156.0)	0.00E+00	7.30E-07
LPCI-MOV-CM2	3	2.50E-03 ( 62.0)	1.55E-08 (157.5)	0.00E+00	1.02E-07
LPCI-MOV-CM1	3	2.50E-03 ( 62.0)	1.55E-08 (157.5)	0.00E+00	1.02E-07
TDRFF-T-DE-27H	216	2.60E-03 ( 55.0)	1.58E-08 (159.0)	0.00E+00	1.13E-07
TEC2DEP-FRP-27R	6	3.20E-03 ( 39.0)	1.02E-08 (160.0)	0.00E+00	3.58E-08
LAK7088A-ROO-LFO	1	2.00E-02 ( 26.0)	4.37E-09 (162.5)	0.00E+00	1.70E-08
LAK7088B-ROO-LFO	1	2.00E-02 ( 26.0)	4.37E-09 (162.5)	0.00E+00	1.70E-08
LAK28RCB-RCO-LFO	1	2.00E-02 ( 26.0)	4.37E-09 (162.5)	0.00E+00	1.70E-08
LAK28RCA-RCO-LFO	1	2.00E-02 ( 26.0)	4.37E-09 (162.5)	0.00E+00	1.70E-08
LPCI-MOV-BETA	6	3.00E-02 ( 17.0)	2.51E-09 (165.0)	0.00E+00	1.51E-08
DG2A-GEN-LF-FTR	8	1.90E-02 ( 33.5)	1.21E-09 (166.0)	0.00E+00	2.66E-09
DG2A-GEN-LF-FTS	8	2.50E-02 ( 18.5)	1.20E-09 (167.0)	0.00E+00	2.62E-09
LPCI-BETA	3	1.10E-01 ( 14.0)	1.15E-09 (168.0)	0.00E+00	6.84E-09
DG0-GEN-LF-FTR	6	1.90E-02 ( 33.5)	8.90E-10 (169.0)	0.00E+00	1.94E-09
DG0-GEN-LF-FTS	6	2.50E-02 ( 18.5)	8.84E-10 (170.0)	0.00E+00	1.94E-09
CSCD300B-BF-CC	1	1.20E-03 ( 76.0)	1.60E-10 (171.0)	0.00E+00	1.00E-09
RA-NONE	156	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
NOFLOW-SPC-65X	12	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
NOFLOW-SPC-65X	16	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
NOFLOW-RHR-B1	8	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
NOFLOW-RHR-A1	13	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
NOFLOW-CSS-B7A	12	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
NOFLOW-CSS-A7A	16	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
NLDSP	28	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
SCSF0688-DEMER	17	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
SCSF068A-DEMER	20	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
FLOW-RHR-B3	76	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
FLOW-RHR-A3	87	1.00E+00 ( 6.5)	0.00E+00 (177.5)	0.00E+00	1.00E-09
CONT-LEAK	896	7.50E-01 ( 13.0)	-4.81E-07 (184.0)	-8.03E-06	0.00E+00

SEQUENCE 120  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
CONT-LEAK	896	7.50E-01 ( 13.0)	68.1	( 1.0)	NA	0.25
SUR-022-R	76	9.30E-02 ( 15.0)	65.3	( 2.0)	NA	0.99
SUR-021-R	820	8.50E-02 ( 16.0)	64.7	( 3.0)	NA	0.32
RHR301BX-STR	7	1.10E-04 (148.5)	4.9	( 4.5)	NA	1.00
RHR301AX-STR	12	1.10E-04 (148.5)	4.9	( 4.5)	NA	1.00
C0D001F-PLG-LF	23	5.80E-04 ( 93.5)	4.2	( 6.5)	NA	1.00
C2D001F-PLG-LF	21	5.80E-04 ( 93.5)	4.2	( 6.5)	NA	1.00
RHR003B-RUM-1	1	3.30E-04 (106.5)	4.1	( 8.5)	NA	1.00
LCSC002A-RUM-1	1	3.30E-04 (106.5)	4.1	( 8.5)	NA	1.00
2D01PK1B-R00-LFO	1	5.00E-04 (101.0)	4.0	( 10.0)	NA	1.00
RHRF03BB-VOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
RHRF04BB-VOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
RHRF47AA-VOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
RHRF04AA-VOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
RHRF98AX-XOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
RHRF98BX-XOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
RHRF03AA-VOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
RHRF47BB-VOC-LF	1	1.10E-04 (148.5)	3.8	( 14.5)	NA	1.00
CSCD300B-PLG-LF	30	1.20E-03 ( 76.0)	3.3	( 20.0)	NA	0.72
CSCD300A-PLG-LF	33	1.20E-03 ( 76.0)	3.3	( 20.0)	NA	0.72
CSCD300B-BF-CC	1	1.20E-03 ( 76.0)	3.3	( 20.0)	NA	0.72
LAK3BRCB-R00-LFO	11	3.40E-03 ( 37.5)	3.3	( 22.5)	NA	1.00
LAK3ARCA-R00-LFO	15	3.40E-03 ( 37.5)	3.3	( 22.5)	NA	1.00
CSCD300A-S-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
SEVY03AX-A-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
RHRH01AX-H-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
C0D001F-S-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
C2D001F-S-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
RHRH01BX-H-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
CSCD? J0B-S-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
NWVY01AX-A-UUM	1	3.00E-04 (125.0)	3.2	( 27.5)	NA	1.00
TDRFP-T-0E-27H	216	2.60E-03 ( 55.0)	2.7	( 32.0)	NA	1.00
LAS44BX-QCO-LFO	1	1.10E-04 (148.5)	2.5	( 33.5)	NA	1.00
LAS44AX-QCO-LFO	1	1.10E-04 (148.5)	2.5	( 33.5)	NA	1.00
1E36YB-B-UUM	18	1.00E-04 (157.5)	2.2	( 37.5)	NA	1.12
1E236B-B-UUM	18	1.00E-04 (157.5)	2.2	( 37.5)	NA	1.12
1E42YB-V-UUM	19	1.00E-04 (157.5)	2.2	( 37.5)	NA	1.12
1E36YB-V-UUM	18	1.00E-04 (157.5)	2.2	( 37.5)	NA	1.12
1E41YA-V-UUM	14	1.00E-04 (157.5)	2.2	( 37.5)	NA	1.12
1E235A-G-UUM	14	1.00E-04 (157.5)	2.2	( 37.5)	NA	1.12
NWVY01AX-ACX-LFI	6	8.40E-04 ( 82.5)	2.2	( 41.5)	NA	1.01
SEVY03AX-ACX-LFI	6	8.40E-04 ( 82.5)	2.2	( 41.5)	NA	1.01
AP040X4CP1-LFCO	1	6.60E-04 ( 89.5)	2.1	( 45.5)	NA	1.00
AP037X4CP1-LFCO	1	6.60E-04 ( 89.5)	2.1	( 45.5)	NA	1.00
LAK28BXCP4-LFCO	1	6.60E-04 ( 89.5)	2.1	( 45.5)	NA	1.00

LAK3BRXXCP1-LFCO	1	6.50E-04	( 89.5)	2.1	( 45.5)	NA	1.00
LAK28ACXCP4-LFCO	1	6.60E-04	( 89.5)	2.1	( 45.5)	NA	1.00
LAK5ARXCP1-LFCO	1	6.60E-04	( 89.5)	2.1	( 45.5)	NA	1.00
2DG01PSC-OOO-LFO	1	3.00E-04	(125.0)	2.0	( 50.0)	NA	1.00
2CG2AAAX-AOO-LFO	1	3.00E-04	(125.0)	2.0	( 50.0)	NA	1.00
2DG01PK18CA-LFOO	1	3.00E-04	(125.0)	2.0	( 50.0)	NA	1.00
CSCB068X-BCO-LF	2	8.40E-05	(163.5)	2.0	( 54.5)	NA	1.05
1EB16212-BCO	2	8.40E-05	(163.5)	2.0	( 54.5)	NA	1.05
CCB0DG1P-BCO-LF	3	8.40E-05	(163.5)	2.0	( 54.5)	NA	1.05
CCB2DG1P-BCO-LF	2	8.40E-05	(163.5)	2.0	( 54.5)	NA	1.05
CCBF068A-BCO-LF	3	8.40E-05	(163.5)	2.0	( 54.5)	NA	1.05
1EB16211-BCO	3	8.40E-05	(163.5)	2.0	( 54.5)	NA	1.05
RA-2-11-27H	141	1.60E-03	( 74.0)	1.9	( 58.0)	NA	0.86
LPCI-MOV-BETA	6	3.00E-02	( 17.0)	1.9	( 59.0)	NA	1.00
1EB1Y22X-BCO	2	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB236B-BCO-LF	120	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
NWV8001X-BCO-LF	1	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB235YA-BCO-LF	13	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB1Y1X-BCO	3	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB422B-BCO-LF	16	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB412A-BCO-LF	12	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB235A-BCO-LF	118	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
SEV801X-BCO-LF	2	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB361X-BCO-LF	2	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB36XB-BCO-LF	2	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB212YX-BCO-LF	1	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB35Y2X-BCO-LF	3	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB2Y4X-BCO	2	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB36YB-BCO-LF	120	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB235XA-BCO-LF	21	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB2Y22X-BCO	1	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
1EB211YX-BCO-LF	2	7.20E-05	(175.5)	1.7	( 68.5)	NA	1.87
NWVY01CA-FMS-CC	8	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
CSCF068B-VCC-CC	7	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
RHR801BB-BOO-CC	7	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
SEVY03CB-FMS-CC	7	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
CSCF068A-VCC-CC	8	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
RHR801AA-BOO-CC	8	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
LPCI-PMS-CM	3	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
LPCI-MOV-CM2	3	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
LPCI-MOV-CM1	3	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
RHRF488B-VOO-CC	7	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
C2DG01P-PMS-CC	7	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
RHRF48AA-VOO-CC	8	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
C0DG01P-PMS-CC	8	2.50E-03	( 62.0)	1.6	( 84.0)	NA	1.11
RHR801AA-BOO-LF	16	5.00E-04	(101.0)	1.2	( 91.5)	NA	1.02
RHR901BB-BOO-LF	13	5.00E-04	(101.0)	1.2	( 91.5)	NA	1.02
LAK93BRC-ROO-LFO	48	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK9BRCB-ROO-LFO	52	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK9ARCA-ROO-LFO	58	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK70BRB-ROO-LFO	1	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK2BRCB-RCO-LFO	1	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03

LAK2ARCA-RDU-LFO	1	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK18RB-R00-LFO	52	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK18ARA-R00-LFO	58	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK14ARC-R00-LFO	12	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK14ARC-R00-LFO	16	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK10ARA-R00-LFO	1	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK93ARC-R00-LFO	54	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
LAK10RCA-R00-LFO	58	2.00E-02	( 26.0)	1.1	( 99.0)	NA	1.03
DG2A-GEN-LF-FTR	8	1.90E-02	( 33.5)	1.0	(106.5)	NA	1.00
DG0-GEN-LF-FTR	6	1.90E-02	( 33.5)	1.0	(106.5)	NA	1.00
NWVY01CA-FMS-LF	1	5.40E-04	( 95.5)	0.9	(108.5)	NA	1.00
SEVY03CB-FMS-LF	1	5.40E-04	( 95.5)	0.9	(108.5)	NA	1.00
EE-CSC0300B-PLG	5	7.20E-04	( 95.0)	0.0	(141.0)	NA	1.03
EE-CSC0300A-PLG	2	7.20E-04	( 85.0)	0.0	(141.0)	NA	1.03
EE-CZDG01F-PLG	4	7.20E-04	( 85.0)	0.0	(141.0)	NA	1.03
DG2A-GEN-LF-FTS	8	2.50E-02	( 18.5)	0.0	(141.0)	NA	1.03
RA-MSLDV-1-2H	169	2.10E-03	( 71.0)	0.0	(141.0)	NA	1.00
RA-7-1-27H	7	2.10E-03	( 71.0)	0.0	(141.0)	NA	1.00
RA-5V-1-2H	163	2.10E-03	( 71.0)	0.0	(141.0)	NA	1.00
RA-1-1-27H	334	2.10E-03	( 71.0)	0.0	(141.0)	NA	1.00
DG0-GEN-LF-FTS	6	2.50E-02	( 19.5)	0.0	(141.0)	NA	1.00
OPFAIL-VENT-2H	260	2.10E-03	( 71.0)	0.0	(141.0)	NA	1.00
CSCFD68B-VCC-LF	13	5.00E-04	(101.0)	0.0	(141.0)	NA	1.00
NWVY01CA-F-UUM	1	5.00E-04	(101.0)	0.0	(141.0)	NA	1.00
CSCFD683-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
CSCFC68A-VCC-LF	16	5.00E-04	(101.0)	0.0	(141.0)	NA	1.00
CSCFD08A-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
1EDC2DEP-FRP-27H	6	3.20E-03	( 39.0)	0.0	(141.0)	NA	1.00
LPCI-BETA	3	1.10E-01	( 14.0)	0.0	(141.0)	NA	1.00
LCSC002A-P-UUM	17	3.00E-03	( 43.5)	0.0	(141.0)	NA	1.00
LAK9BCP3-LFOO	7	2.90E-03	( 51.0)	0.0	(141.0)	NA	1.00
SEVY03CB-F-UUM	1	5.00E-04	(101.0)	0.0	(141.0)	NA	1.00
LAK9ACP3-LFOO	8	2.90E-03	( 51.0)	0.0	(141.0)	NA	1.00
SCSF068B-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
SCSF06AA-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
LAK93GCP3-LFCC	7	2.90E-03	( 51.0)	0.0	(141.0)	NA	1.00
RHRH01BX-HTX-LFB	14	6.20E-03	( 35.5)	0.0	(141.0)	NA	1.00
RHRH01AX-FTX-LFB	17	6.20E-03	( 35.5)	0.0	(141.0)	NA	1.00
LAK93ACP3-LFCC	8	2.90E-03	( 51.0)	0.0	(141.0)	NA	1.00
RHRFB88X-R-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRFB8AX-R-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRFB78B-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRFB7AA-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRF74BB-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRF74AA-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
CZDG01P-PMS-LF	14	1.10E-03	( 79.5)	0.0	(141.0)	NA	1.00
RHRF65AA-W-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRF64BB-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRF64AA-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRF60AA-S-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRF55BX-R-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00
RHRF55AX-R-UUM	1	3.00E-04	(125.0)	0.0	(141.0)	NA	1.00

C2D001P-P-UUM	7	3.00E-03	( 43.5)	0.0	(141.0)
RHRF518B-N-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
RHRF518A-N-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
RHRF488B-V00-LF	13	3.00E-04	(101.0)	0.0	(141.0)
RHRF608B-S-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
RHRF488B-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
RHRF42AA-V00-LF	16	3.00E-04	(101.0)	0.0	(141.0)
RHRF42AA-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
RHRF658B-N-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
LAK18ACP1-LFOO	7	2.90E-03	( 51.0)	0.0	(141.0)
RHRF478B-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
RHRF47AA-V-UUM	1	3.00E-04	(125.0)	0.0	(141.0)
LAK18ACP1-LFOO	8	2.90E-03	( 51.0)	0.0	(141.0)
CDD001P-PMS-LF	17	1.10E-03	( 79.5)	0.0	(141.0)
RHR0028B-PMS-LF	14	1.10E-03	( 79.5)	0.0	(141.0)
RHR0028B-P-UUM	14	3.00E-03	( 43.5)	0.0	(141.0)
RHR0028B-P-NDUUM	7	3.00E-03	( 43.5)	0.0	(141.0)
LAK18ACP1-LFOO	17	1.10E-03	( 79.5)	0.0	(141.0)
LAK18ACP1-LFOO	8	2.90E-03	( 51.0)	0.0	(141.0)
CDD001P-P-UUM	8	3.00E-03	( 43.5)	0.0	(141.0)
RHR002AA-P-UUM	17	3.00E-03	( 43.5)	0.0	(141.0)
RHR002AA-P-NDUUM	8	3.00E-03	( 43.5)	0.0	(141.0)
RHR0003B-P-UUM	11	3.00E-03	( 43.5)	0.0	(141.0)
RA-NONE	156	1.00E+00	( 6.5)	0.0	(141.0)
NOFLOW-SPC-b5X	12	1.00E+00	( 6.5)	0.0	(141.0)
NOFLOW-SPC-A5X	16	1.00E+00	( 6.5)	0.0	(141.0)
NOFLOW-RRR-B1	8	1.00E+00	( 6.5)	0.0	(141.0)
NOFLOW-PHR-A1	13	1.00E+00	( 6.5)	0.0	(141.0)
NOFLOW-CSS-B7A	12	1.00E+00	( 6.5)	0.0	(141.0)
NOFLOW-CSS-A7A	16	1.00E+00	( 6.5)	0.0	(141.0)
NLOSP	28	1.00E+00	( 6.5)	0.0	(141.0)
SCSF068B-DENER	17	1.00E+00	( 6.5)	0.0	(141.0)
SCSF06AA-DENER	20	1.00E+00	( 6.5)	0.0	(141.0)
FLOW-RHR-B3	76	1.00E+00	( 6.5)	0.0	(141.0)
FLOW-RHR-A3	87	1.00E+00	( 6.5)	0.0	(141.0)



SEQUENCE T20

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-T-SEQ2B WITH TOP EVENT FREQUENCY 4.81E-07

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	6	4.27E-08	0.08876	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* RA-NONE	*
3					RHRD1AX-HTX-LFB	* SUR-021-R	+		
4	5	6	2.07E-08	0.13171	1EB236B-BCO-LF	* CDDG01P-P-UUM	* /CONT-LEAK	* IE-T1	*
5					RA-NONE	* SUR-021-R	+		
6	3	6	2.07E-08	0.17466	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* LCSC002A-P-UUM	*
7					RA-NONE	* SUR-021-R	+		
8	2	7	2.07E-08	0.21761	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* RA-NONE	*
9					RHRC02AA-P-UUM	* SCF06AA-DENER	* SUR-021-R	+	
10	4	6	2.07E-08	0.26056	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* RA-NONE	*
11					RHRC02AA-P-NDUUM	* SUR-021-R	+		
12	6	6	1.72E-08	0.29635	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* NWVY01CA-FMS-CC	*
13					RA-NONE	* SUR-021-R	+		
14	7	6	1.72E-08	0.33214	1EB236B-BCO-LF	* CDDG01P-PMS-CC	* /CONT-LEAK	* IE-T1	*
15					RA-NONE	* SUR-021-R	+		
16	8	6	1.72E-08	0.36793	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* RA-NONE	*
17					RHRB01AA-BOO-CC	* SUR-021-R	+		
18	9	6	1.15E-08	0.39179	1EB236B-B-UUM	* /CONT-LEAK	* CSCD300A-PLG-LF	* IE-T1	*
19					RA-NONE	* SUR-021-R	+		
20	10	6	1.15E-08	0.41565	1E42YB-V-UUM	* /CONT-LEAK	* CSCD300A-PLG-LF	* IE-T1	*
21					RA-NONE	* SUR-021-R	+		
22	11	5	8.93E-09	0.43421	1EB16211-BCO	* /CONT-LEAK	* IE-T102	* RA-NONE	*
23					SUR-021-R	+			
24	12	5	8.93E-09	0.45277	1EB16212-BCO	* /CONT-LEAK	* IE-T101	* RA-NONE	*
25					SUR-021-R	+			
26	13	6	8.26E-09	0.46995	1EB236B-BCO-LF	* /CONT-LEAK	* CSCD300A-PLG-LF	* IE-T1	*
27					RA-NONE	* SUR-021-R	+		
28	15	5	7.65E-09	0.48586	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T9A	* RA-NONE	*
29					SUR-021-R	+			
30	17	5	7.65E-09	0.50176	1EB36Y1X-BCO-LF	* /CONT-LEAK	* IE-T101	* RA-NONE	*
31					SUR-021-R	+			
32	16	5	7.65E-09	0.51767	1EB36XB-BCO-LF	* /CONT-LEAK	* IE-T101	* RA-NONE	*
33					SUR-021-R	+			
34	19	5	7.65E-09	0.53358	1EB36YB-BCO-LF	* /CONT-LEAK	* IE-T101	* RA-NONE	*
35					SUR-021-R	+			
36	14	5	7.65E-09	0.54949	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T101	* RA-NONE	*
37					SUR-021-R	+			
38	18	5	7.65E-09	0.56539	1EB235A-BCO-LF	* /CONT-LEAK	* IE-T9B	* RA-NONE	*
39					SUR-021-R	+			
40	20	6	7.57E-09	0.58114	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T1	* RA-NONE	*
41					RHRC02AA-PMS-LF	* SUR-021-R	+		
42	21	6	7.57E-09	0.59689	1EB236B-BCO-LF	* CDDG01P-PMS-LF	* /CONT-LEAK	* IE-T1	*
43					RA-NONE	* SUR-021-R	+		
44	22	6	6.88E-09	0.61121	1E42YB-V-UUM	* /CONT-LEAK	* EE-CSCD300A-PLG	* IE-T1	*
45					RA-NONE	* SUR-021-R	+		

46	25	6	6.23E-09	0.62415	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-15	* RA-NONE	*
47					RHR01A-HTX-LFB	SUR-022-R	* SUR-022-R	*	*	*
48	24	6	5.79E-09	0.63619	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-13	* RA-NONE	*
49					RHR01A-HTX-LFB	SUR-021-R	* SUR-021-R	*	*	*
50	23	6	5.78E-09	0.64821	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-11	* NAVY01AX-ADA-LF1	*
51					RA-NONE	SUR-021-R	* SUR-021-R	*	*	*
52	26	6	4.93E-09	0.65847	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-12	* RA-NONE	*
53					RHR01A-HTX-LFB	SUR-021-R	* SUR-021-R	*	*	*
54	30	5	4.46E-09	0.66775	/CONT-LEAK	1E-T102	* 1E-T102	* LAK18ARA-ROO-LFO	* RA-1-1-27H	*
55					SUR-021-R		* SUR-021-R	*	*	*
56	28	5	4.46E-09	0.67703	/CONT-LEAK	1E-T102	* 1E-T102	* LAK9ARCA-ROO-LFO	* RA-1-1-27H	*
57					SUR-021-R		* SUR-021-R	*	*	*
58	29	5	4.46E-09	0.68631	/CONT-LEAK	1E-T102	* 1E-T102	* LAK10RCA-ROO-LFO	* RA-1-1-27H	*
59					SUR-021-R		* SUR-021-R	*	*	*
60	27	5	4.46E-09	0.69559	/CONT-LEAK	1E-T101	* 1E-T101	* LAK168RB-ROO-LFO	* RA-1-1-27H	*
61					SUR-021-R		* SUR-021-R	*	*	*
62	31	5	4.45E-09	0.70487	/CONT-LEAK	1E-T101	* 1E-T101	* LAK96RCB-ROO-LFO	* RA-1-1-27H	*
63					SUR-021-R		* SUR-021-R	* /CONT-LEAK	* 1E-T1	*
64	32	6	3.99E-09	0.71317	1E2368-BCO-LF	C00G01F-PLG-LF	* C00G01F-PLG-LF	*	*	*
65					RA-NONE	SUR-021-R	* SUR-021-R	* 1E-14	* RA-NONE	*
66	33	6	3.89E-09	0.72126	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-14	* RA-NONE	*
67					RHR01A-HTX-LFB	SUR-021-R	* SUR-021-R	* CSCF068A-VCC-LF	* 1E-T1	*
68	36	6	3.44E-09	0.72841	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* CSCF068A-VCC-LF	* 1E-T1	*
69					RA-NONE	SUR-021-R	* SUR-021-R	* FLOW-RHR-A3	* 1E-T1	*
70	35	7	3.44E-09	0.73557	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* FLOW-RHR-A3	* 1E-T1	*
71					RA-NONE	RHR48AA-V00-LF	* RHR48AA-V00-LF	* SUR-021-R	* RA-NONE	*
72	34	6	3.44E-09	0.74275	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-T1	* RA-NONE	*
73					RHR01AA-B00-LF	SUR-021-R	* SUR-021-R	* 1E-T1	* RA-NONE	*
74	38	7	3.40E-09	0.74980	/CONT-LEAK	1E-T102	* 1E-T102	* LAK14ARC-k	* NOFLOW-CSS-A7A	*
75					NOFLOW-SPC-A5X	RA-2-11-27H	* RA-2-11-27H	* SUR-021-R	* NOFLOW-CSS-A7A	*
76	39	7	3.40E-09	0.75687	/CONT-LEAK	1E-T101	* 1E-T101	* LAK14BRC-BCO-LFO	* NOFLOW-CSS-B7A	*
77					NOFLOW-SPC-B5X	RA-2-11-27H	* RA-2-11-27H	* SUR-021-R	* NOFLOW-CSS-B7A	*
78	37	6	3.40E-09	0.76394	/CONT-LEAK	FLOW-RHR-B3	* FLOW-RHR-B3	* 1E-T101	* LAK95BRC-ROO-LFO	*
79					RA-2-11-27H	SUR-021-R	* SUR-021-R	* 1E-T102	* LAK95BRC-ROO-LFO	*
80	40	6	3.40E-09	0.77101	/CONT-LEAK	FLOW-RHR-A3	* FLOW-RHR-A3	* 1E-T102	* LAK95BRC-ROO-LFO	*
81					RA-2-11-27H	SUR-021-R	* SUR-021-R	* 1E-15	* LCSC002A-P-UUM	*
82	46	6	3.01E-09	0.77728	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-15	* LCSC002A-P-UUM	*
83					RA-NONE	SUR-022-R	* SUR-022-R	* 1E-15	* RA-NONE	*
84	45	7	3.01E-09	0.78354	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-15	* RA-NONE	*
85					RHR02AA-P-UUM	SCSF06AA-DENER	* SCSF06AA-DENER	* SUR-022-R	* RA-NONE	*
86	44	6	2.80E-09	0.78936	1E2368-BCO-LF	C00G01P-P-UUM	* C00G01P-P-UUM	* /CONT-LEAK	* 1E-13	*
87					RA-NONE	SUR-021-R	* SUR-021-R	* /CONT-LEAK	* RA-NONE	*
88	43	6	2.80E-09	0.79519	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-13	* RA-NONE	*
89					RHR02AA-P-UUM	SUR-021-R	* SUR-021-R	* 1E-13	* LCSC002A-P-UUM	*
90	41	6	2.80E-09	0.80101	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-13	* LCSC002A-P-UUM	*
91					RA-NONE	SUR-021-R	* SUR-021-R	* 1E-13	* RA-NONE	*
92	42	7	2.80E-09	0.80683	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-13	* RA-NONE	*
93					RHR02AA-P-UUM	SCSF06AA-DENER	* SCSF06AA-DENER	* SUR-021-R	* RA-NONE	*
94	47	6	2.39E-09	0.81179	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-12	* LCSC002A-P-UUM	*
95					RA-NONE	SUR-021-R	* SUR-021-R	* 1E-12	* RA-NONE	*
96	48	7	2.39E-09	0.81676	1E2368-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-12	* RA-NONE	*
97					RHR02AA-P-UUM	SCSF06AA-DENER	* SCSF06AA-DENER	* SUR-021-R	* RA-NONE	*

98	51	6	2.33E-09	0.82161	1EB2368-BCO-LF	/CONT-LEAK	* IE-T3	* RA-NONE	*	
99	50	6	2.33E-09	0.82646	RHR01AA-B00-CC	SUR-021-R	+			
100	49	6	2.33E-09	0.83131	1EB2368-BCO-LF	/CONT-LEAK	* IE-T3	* NWV01CA-FMS-CC	*	
101	53	6	1.8E-09	0.83522	RA-NONE	SUR-021-R	+			
102	52	7	1.88E-09	0.83914	1EB2368-BCO-LF	COG01P-PMS-CC	/CONT-LEAK	* IE-T3	*	
103	54	6	1.56E-09	0.84237	RA-NONE	SUR-021-R	+			
104	56	5	1.38E-09	0.84848	1EB2368-BCO-LF	/CONT-LEAK	* IE-T4	* LCSC002A-P-UUM	*	
105	59	6	1.38E-09	0.85136	RA-NONE	SUR-021-R	+			
106	57	5	1.38E-09	0.85424	1EB2368-BCO-LF	/CONT-LEAK	* IE-T4	* RA-NONE	*	
107	58	6	1.38E-09	0.85711	RHR02AA-P-UUM	SCSF06VA-DENER	SUR-021-R	+		
108	61	6	1.21E-09	0.85962	1E427B-V-UUM	/CONT-LEAK	* CSCD300A-PLG-LF	* IE-T3	*	
109	60	6	1.12E-09	0.86195	RA-NONE	SUR-021-R	+			
110	65	6	1.10E-09	0.86424	1EB2368-BCO-LF	/CONT-LEAK	* CSCD300A-PLG-LF	* IE-T3	*	
111	64	6	1.10E-09	0.86654	RA-NONE	SUR-021-R	+			
112	63	6	1.03E-09	0.86868	1EB2368-BCO-LF	/CONT-LEAK	* IE-T9A	* RA-NONE	*	
113	62	6	1.03E-09	0.87081	RHR013X-HTX-LFB	SUR-021-R	+			
114	66	6	9.55E-10	0.87280	/CONT-LEAK	IE-T102	* RA-MSLDV-1-2H	* RHR018X-HTX-LFB	*	
115	67	6	8.75E-10	0.87462	SUR-021-R	+				
116	68	6	8.75E-10	0.87644	1EB2368-BCO-LF	/CONT-LEAK	* OPFAIL-VENT-2H	* RA-NONE	*	
117	72	5	7.50E-10	0.87801	RA-NONE	SUR-021-R	+			
118	71	5	7.59E-10	0.87959	1EB2368-BCO-LF	/CONT-LEAK	* RA-MSLDV-1-2H	* RHR018X-HTX-LFB	*	
119	69	7	7.57E-10	0.88117	RA-NONE	SUR-021-R	+			
120	70	6	7.53E-10	0.88273	1EB2368-BCO-LF	/CONT-LEAK	* CSCD300A-PLG-LF	* IE-T5	*	
121	73	6	6.90E-10	0.88417	RA-NONE	SUR-021-R	+			
122	74	6	6.90E-10	0.88560	1EB2368-BCO-LF	/CONT-LEAK	* CSCD300A-PLG-LF	* IE-T3	*	
123					RPRC02AA-PMS-LF	SUR-021-R	+			
124					1EB2368-BCO-LF	COG01P-PMS-LF	/CONT-LEAK	* IE-T3	*	
125					RA-NONE	SUR-021-R	+			
126					1EB2368-BCO-LF	/CONT-LEAK	* LAK3ARCA-RCO-LFO	* RA-1-1-27H	*	
127					RHR02AA-PMS-LF	SUR-021-R	+			
128					1EB2368-BCO-LF	/CONT-LEAK	* LAK3BRCB-RCO-LFO	* RA-1-1-27H	*	
129					RHR02AA-PMS-LF	SUR-021-R	+			
130					1EB2368-BCO-LF	/CONT-LEAK	* IE-T1	* NOFLOW-RHR-A1	*	
131					RA-NONE	SUR-021-R	+			
132					1EB2368-BCO-LF	/CONT-LEAK	* SUR-021-R	* CSCD300A-PLG-LF	* IE-T4	*
133					RA-NONE	SUR-021-R	+			
134					1EB2368-BCO-LF	/CONT-LEAK	* IE-T4	* RA-NONE	*	*
135					RHR02AA-PMS-LF	SUR-021-R	+			
136					1EB2368-BCO-LF	/CONT-LEAK	* SUR-021-R	* RA-NONE	*	*
137					RA-NONE	SUR-021-R	+			
138					1EB2368-BCO-LF	/CONT-LEAK	* CSCD300A-PLG-LF	* IE-T2	*	*
139					SUR-021-R	+				
140					/CONT-LEAK	IE-T102	* LAK3ARCA-RCO-LFO	* RA-1-1-27H	*	*
141					SUR-021-R	+				
142					1EB2368-BCO-LF	/CONT-LEAK	* LAK3BRCB-RCO-LFO	* RA-1-1-27H	*	*
143					RA-NONE	RHR01AX-STR	* IE-T1	* NOFLOW-RHR-A1	*	*
144					1EB2368-BCO-LF	/CONT-LEAK	* SUR-021-R	* CSCD300A-PLG-LF	* IE-T4	*
145					RA-NONE	SUR-021-R	+			
146					1EB2368-BCO-LF	/CONT-LEAK	* IE-T4	* RA-NONE	*	*
147					RPRC02AA-PMS-LF	SUR-021-R	+			
148					1EB2368-BCO-LF	COG01P-PMS-LF	/CONT-LEAK	* RA-NONE	*	*
149					RA-NONE	SUR-021-R	+			

150	90	7	6.69E-10	0.88699	/CONT-LEAK	* IE-T9A	* OPFAIL-VENT-2H	* RA-NONE	*
151					RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-021-R	*	*
152	89	5	6.69E-10	0.88838	C0DG01P-P-UUM	* /CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	*
153					SUR-021-R	+			
154	86	6	6.69E-10	0.88978	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRC02BB-P-UUM	*
155					SCSF06BB-DENER	* SUR-021-R	+		
156	85	6	6.69E-10	0.89117	/CONT-LEAK	* IE-T9B	* LCSC002A-P-UUM	* OPFAIL-VENT-2H	*
157					RA-NONE	* SUR-021-R	+		
158	87	5	6.69E-10	0.89256	/CONT-LEAK	* IE-T101	* RA-7-1-27H	* RHRC003B-P-UUM	*
159					SUR-021-R	+			
160	80	5	6.69E-10	0.89395	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRC02BB-P-NDUUM	*
161					SUR-021-R	+			
162	79	6	6.69E-10	0.89534	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRC02AA-P-UUM	*
163					SCSF06AA-DENER	* SUR-021-R	+		
164	78	7	6.69E-10	0.89674	/CONT-LEAK	* IE-T9B	* OPFAIL-VENT-2H	* RA-NONE	*
165					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-021-R	+	
166	77	5	6.69E-10	0.89813	C2DG01P-P-UUM	* /CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	*
167					SUR-021-R	+			
168	84	5	6.69E-10	0.89952	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRC02AA-P-NDUUM	*
169					SUR-021-R	+			
170	75	5	6.69E-10	0.90091	/CONT-LEAK	* IE-T102	* LCSC002A-P-UUM	* RA-MSLDV-1-2H	*
171					SUR-021-R	+			
172	88	5	6.47E-10	0.90226	/CONT-LEAK	* IE-T101	* LAK18BCP1-LF00	* RA-1-1-27H	*
173					SUR-021-R	+			
174	81	5	6.47E-10	0.90360	/CONT-LEAK	* IE-T102	* LAK10ACP9-LF00	* RA-1-1-27H	*
175					SUR-021-R	+			
176	82	5	6.47E-10	0.90495	/CONT-LEAK	* IE-T102	* LAK9ACP3-LF00	* RA-1-1-27H	*
177					SUR-021-R	+			
178	83	5	6.47E-10	0.90629	/CONT-LEAK	* IE-T102	* LAK18ACP1-LF00	* RA-1-1-27H	*
179					SUR-021-R	+			
180	76	5	6.47E-10	0.90764	/CONT-LEAK	* IE-T101	* LAK96CP3-LF00	* RA-1-1-27H	*
181					SUR-021-R	+			
182	99	6	5.83E-10	0.90885	1EB236B-BCO-LF	* C0DG01F-PLG-LF	* /CONT-LEAK	* IE-T5	*
183					RA-NONE	* SUR-022-R	+		
184	91	6	5.78E-10	0.91005	1EB236B-BCO-LF	* CCB0DG1P-BCO-LF	* /CONT-LEAK	* IE-T1	*
185					RA-NONE	* SUR-021-R	+		
186	97	5	5.58E-10	0.91121	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRB01AA-BOO-CC	*
187					SUR-021-R	+			
188	94	5	5.58E-10	0.91237	C0DG01P-PMS-CC	* /CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	*
189					SUR-021-R	+			
190	95	5	5.58E-10	0.91353	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRB01BB-BOO-CC	*
191					SUR-021-R	+			
192	96	5	5.58E-10	0.91469	/CONT-LEAK	* IE-T102	* NWVY01CA-FMS-CC	* RA-MSLDV-1-2H	*
193					SUR-021-R	+			
194	93	5	5.58E-10	0.91585	C2DG01P-PMS-CC	* /CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	*
195					SUR-021-R	+			
196	92	5	5.58E-10	0.91701	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* SEVY03CB-FMS-CC	*
197					SUR-021-R	+			
198	98	6	5.41E-10	0.91814	1EB236B-BCO-LF	* C0DG01F-PLG-LF	* /CONT-LEAK	* IE-T3	*
199					RA-NONE	* SUR-021-R	+		
200	121	6	5.02E-10	0.91918	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T5	* RA-NONE	*
201					RHRB01AA-BOO-LF	* SUR-022-R	+		

202	119	7	5.02E-10	0.92023	1EB236B-BCO-LF	* /CONT-LEAK	* FLOW-RHR-A3	* 1E-T5	*
203					RA-NONE	* RHRF4BAA-V00-LF	* SUR-022-R	*	*
204	120	6	5.02E-10	0.92127	1EB236B-BCO-LF	* /CONT-LEAK	* CSCF068A-VCC-LF	* 1E-T5	*
205					RA-NONE	* SUR-022-R	+		
206	113	6	4.96E-10	0.92230	1EB236B-BCO-LF	* 1EB35Y2X-BCO-LF	* /CONT-LEAK	* 1E-T1	*
207					RA-NONE	* SUR-021-R	+		
208	112	6	4.96E-10	0.92333	1EB212YX-BCO-LF	* 1EB235A-BCO-LF	* /CONT-LEAK	* 1E-T1	*
209					RA-NONE	* SUR-021-R	+		
210	114	6	4.96E-10	0.92436	1EB235YA-BCO-LF	* 1EB36YB-BCO-LF	* /CONT-LEAK	* 1E-T1	*
211					RA-NONE	* SUR-021-R	+		
212	109	6	4.96E-10	0.92539	1EB235YA-BCO-LF	* 1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T1	*
213					RA-NONE	* SUR-021-R	+		
214	110	6	4.96E-10	0.92642	1EB1Y22X-BCO	* 1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T1	*
215					RA-NONE	* SUR-021-R	+		
216	111	6	4.96E-10	0.92746	1EB211YX-BCO-LF	* 1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T1	*
217					RA-NONE	* SUR-021-R	+		
218	107	6	4.96E-10	0.92849	1EB235A-BCO-LF	* 1EB36XB-BCO-LF	* /CONT-LEAK	* 1E-T1	*
219					RA-NONE	* SUR-021-R	+		
220	105	6	4.96E-10	0.92952	1EB235A-BCO-LF	* 1EB36Y1X-BCO-LF	* /CONT-LEAK	* 1E-T1	*
221					RA-NONE	* SUR-021-R	+		
222	106	6	4.96E-10	0.93055	1EB235A-BCO-LF	* 1EB2Y22X-BCO	* /CONT-LEAK	* 1E-T1	*
223					RA-NONE	* SUR-021-R	+		
224	104	6	4.96E-10	0.93158	1EB35Y2X-BCO-LF	* 1EB36YB-BCO-LF	* /CONT-LEAK	* 1E-T1	*
225					RA-NONE	* SUR-021-R	+		
226	103	6	4.96E-10	0.93261	1EB235A-BCO-LF	* 1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T1	*
227					RA-NONE	* SUR-021-R	+		
228	102	6	4.96E-10	0.93364	1EB235XA-BCO-LF	* 1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T1	*
229					RA-NONE	* SUR-021-R	+		
230	108	6	4.96E-10	0.93467	1EB235XA-BCO-LF	* 1EB36YB-BCO-LF	* /CONT-LEAK	* 1E-T1	*
231					RA-NONE	* SUR-021-R	+		
232	100	6	4.93E-10	0.93570	/CONT-LEAK	* FLOW-RHR-B3	* 1E-T101	* LAK93BCP3-LFCC	*
233					RA-2-11-27H	* SUR-021-R	+		
234	101	6	4.93E-10	0.93672	/CONT-LEAK	* FLOW-RHR-A3	* 1E-T102	* LAK93/CP3-LFCC	*
235					RA-2-11-27H	* SUR-021-R	+		
236	115	6	4.67E-10	0.93769	1EB235B-BCO-LF	* /CONT-LEAK	* 1E-T3	* RA-NONE	*
237					RHRB01AA-BCO-LF	* SUR-021-R	+		
238	117	6	4.67E-10	0.93866	1EB236B-BCO-LF	* /CONT-LEAK	* CSCF068A-VCC-LF	* 1E-T3	*
239					RA-NONE	* SUR-021-R	+		
240	116	7	4.67E-10	0.93963	1EB236B-BCO-LF	* /CONT-LEAK	* FLOW-RHR-A3	* 1E-T3	*
241					RA-NONE	* RHRF4BAA-V00-LF	* SUR-021-R	+	
242	118	6	4.61E-10	0.94059	1EB236B-BCO-LF	* CODG01F-PLG-LF	* /CONT-LEAK	* 1E-T2	*
243					RA-NONE	* SUR-021-R	+		
244	125	6	4.75E-10	0.94148	/CONT-LEAK	* FLOW-RHR-B3	* 1E-T101	* RA-2-11-27H	*
245					RHRF48BB-V00-CC	* SUR-021-R	+		
246	122	6	4.25E-10	0.94236	/CONT-LEAK	* FLOW-RHR-A3	* 1E-T102	* RA-2-11-27H	*
247					RHRF48AA-V00-CC	* SUR-021-R	+		
248	124	5	4.25E-10	0.94324	/CONT-LEAK	* CSCF068B-VCC-CC	* 1E-T101	* RA-2-11-27H	*
249					SUR-021-R	+			
250	123	5	4.25E-10	0.94413	/CONT-LEAK	* CSCF068A-VCC-CC	* 1E-T102	* RA-2-11-27H	*
251					SUR-021-R	+			
252	127	6	4.02E-10	0.94496	1EB236B-B-UUM	* /CONT-LEAK	* 1E-T1	* LAK1BARA-ROO-LFO	*
253					RA-1-1-27H	* SUR-021-R	+		

254	133	6	4.02E-10	0.94580	1E82368-B-UJM	/CONT-LEAK	* 1E-T1	* LAK9ARCA-ROO-LFO *
255	126	6	4.02E-10	0.94663	RA-1-1-27H	SUR-021-R	* 1E-T1	* LAK18ARA-ROO-LFO *
256	134	6	4.02E-10	0.94747	1E42YB-V-UJM	/CONT-LEAK	* 1E-T1	* LAK18BRB-ROO-LFO *
257	135	6	4.02E-10	0.94830	RA-1-1-27H	SUR-021-R	* 1E-T1	* LAK18ARA-ROO-LFO *
258	132	6	4.02E-10	0.94914	1E41YA-V-UJM	/CONT-LEAK	* 1E-T1	* LAK10RCA-ROO-LFO *
259	131	6	4.02E-10	0.94997	RA-1-1-27H	SUR-021-R	* 1E-T1	* LAK9BRCB-ROO-LFO *
260	136	6	4.02E-10	0.95081	1E82368-B-UJM	/CONT-LEAK	* 1E-T1	* LAK18RCB-ROO-LFO *
261	120	6	4.02E-10	0.95164	RA-1-1-27H	SUR-021-R	* 1E-T1	* LAK18BRB-ROO-LFO *
262	128	6	4.02E-10	0.95248	1E41YA-V-UJM	/CONT-LEAK	* 1E-T1	* LAK10RCA-ROO-LFO *
263	130	6	4.02E-10	0.95331	RA-1-1-27H	SUR-021-R	* 1E-T1	* LAK9ARCA-ROO-LFO *
264	137	6	3.98E-10	0.95414	1E82368-BCO-LF	/CONT-LEAK	* 1E-T2	* RA-NONE
265	139	6	3.98E-10	0.95497	RHR801AA-BOO-LF	SUR-021-R	* CSCF668A-VCC-LF	* 1E-T2
266	136	7	3.98E-10	0.95579	1E82368-BCO-LF	/CONT-LEAK	* FLOW-RHR-A3	* 1E-T2
267	140	6	3.64E-10	0.95655	RA-NONE	RHR48AA-VOL-LF	* SUR-021-R	* 1E-T4
268	142	7	3.14E-10	0.95720	1E82368-BCO-LF	C00G01F-PLG-LF	* /CONT-LEAK	* 1E-T4
269	143	6	3.14E-10	0.95786	RA-NONE	SUR-021-R	* FLOW-RHR-A3	* 1E-T4
270	141	6	3.14E-10	0.95851	1E82368-BCO-LF	/CONT-LEAK	* SUR-021-R	* RA-NONE
271	147	7	3.06E-10	0.95934	RA-NONE	RHR48AA-VOL-LF	* 1E-T4	* 1E-T1
272	145	7	3.06E-10	0.95978	1E82368-BCO-LF	/CONT-LEAK	* FLOW-RHR-B3	* 1E-T1
273	144	7	3.06E-10	0.96042	RHR801AA-BOO-LF	SUR-021-R	* SUR-021-R	* 1E-T1
274	146	7	3.06E-10	0.96105	1E41YA-V-UJM	/CONT-LEAK	* FLOW-RHR-A3	* 1E-T1
275	148	6	2.89E-10	0.96165	LAK93BRC-ROO-LFO	RA-2-11-27H	* SUR-021-R	* LAK18ARA-ROO-LFO *
276	149	6	2.89E-10	0.96226	1E82368-BCO-LF	/CONT-LEAK	* 1E-T1	* LAK96RCB-ROO-LFO *
277	152	6	2.89E-10	0.96286	RA-1-1-27H	SUR-021-R	* 1E-T1	* LAK18BRB-ROO-LFO *
278	150	6	2.89E-10	0.96346	1E82368-BCO-LF	/CONT-LEAK	* 1E-T1	* LAK10RCA-ROO-LFO *
279	151	6	2.89E-10	0.96406	RA-1-1-27H	SUR-021-R	* 1E-T1	* LAK9ARCA-ROO-LFO *
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306	155	5	2.68E-10	0.96462	/CONT-LEAK	* C5CD300B-PLG-LF	* 1E-T101	* RA-MSLDV-1-2H	*
307					SUR-021-R	+			
308	153	5	2.68E-10	0.96517	/CONT-LEAK	* C5CD300A-PLG-LF	* 1E-T102	* RA-MSLDV-1-2H	*
309					SUR-021-R	+			
310	156	6	2.68E-10	0.96573	/CONT-LEAK	* C5CD300A-PLG-LF	* 1E-T9B	* OPFAIL-VENT-2H	*
311					RA-NONE	* SUR-021-R	+		
312	154	6	2.68E-10	0.96629	/CONT-LEAK	* C5CD300B-PLG-LF	* 1E-T9A	* OPFAIL-VENT-2H	*
313					RA-NONE	* SUR-021-R	+		
314	161	6	2.45E-10	0.96680	C2DG01P-PMS-LF	* /CONT-LEAK	* 1E-T9A	* OPFAIL-VENT-2H	*
315					RA-NONE	* SUR-021-R	+		
316	160	5	2.45E-10	0.96731	C0DG01P-PMS-LF	* /CONT-LEAK	* 1E-T102	* RA-MSLDV-1-2H	*
317					SUR-021-R	+			
318	159	5	2.45E-10	0.96782	C2DG01P-PMS-LF	* /CONT-LEAK	* 1E-T101	* RA-MSLDV-1-2H	*
319					SUR-021-R	+			
320	157	6	2.45E-10	0.96833	C0DG01P-PMS-LF	* /CONT-LEAK	* 1E-T9B	* OPFAIL-VENT-2H	*
321					RA-NONE	* SUR-021-R	+		
322	162	5	2.45E-10	0.96884	/CONT-LEAK	* 1E-T102	* RA-MSLDV-1-2H	* RHRC02AA-PMS-LF	*
323					SUR-021-R	+			
324	164	5	2.45E-10	0.96935	/CONT-LEAK	* 1E-T101	* RA-MSLDV-1-2H	* RHRC02BB-PMS-LF	*
325					SUR-021-R	+			
326	158	6	2.45E-10	0.96986	/CONT-LEAK	* 1E-T9B	* OPFAIL-VENT-2H	* RA-NONE	*
327					RHRC02AA-PMS-LF	* SUR-021-R	+		
328	163	6	2.45E-10	0.97037	/CONT-LEAK	* 1E-T9A	* OPFAIL-VENT-2H	* RA-NONE	*
329					RHRC02BB-PMS-LF	* SUR-021-R	+		
330	168	8	2.20E-10	0.97083	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T1	* LAK14ARC-RCO-LFO	*
331					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-2-11-27H	* SUR-021-R	+
332	167	7	2.20E-10	0.97129	1EB236B-BCO-LF	* /CONT-LEAK	* FLOW-RHR-A3	* 1E-T1	*
333					LAK93ARC-R00-LFO	* RA-2-11-27H	* SUR-021-R	+	
334	166	7	2.20E-10	0.97174	1EB235A-BCO-LF	* /CONT-LEAK	* FLOW-RHR-B3	* 1E-T1	*
335					LAK93BRC-R00-LFO	* RA-2-11-27H	* SUR-021-R	+	
336	165	8	2.20E-10	0.97220	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-T1	* LAK14BRC-RCO-LFO	*
337					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-2-11-27H	* SUR-021-R	+
338	169	5	1.87E-10	0.97259	/CONT-LEAK	* 1E-T102	* NWVY01AX-ACX-LFI	* RA-MSLDV-1-2H	*
339					SUR-021-R	+			
340	170	5	1.87E-10	0.97298	/CONT-LEAK	* 1E-T101	* RA-MSLDV-1-2H	* SEVY03AX-ACX-LFI	*
341					SUR-021-R	+			
342	171	6	1.61E-10	0.97331	/CONT-LEAK	* EE-C5CD300B-PLG	* 1E-T9A	* OPFAIL-VENT-2H	*
343					RA-NONE	* SUR-021-R	+		
344	173	6	1.61E-10	0.97365	/CONT-LEAK	* EE-C2DG01F-PLG	* 1E-T9A	* OPFAIL-VENT-2H	*
345					RA-NONE	* SUR-021-R	+		
346	172	5	1.61E-10	0.97398	/CONT-LEAK	* EE-C5CD300A-PLG	* 1E-T102	* RA-MSLDV-1-2H	*
347					SUR-021-R	+			
348	176	5	1.47E-10	0.97429	/CONT-LEAK	* 1E-T101	* LAK3BRCXCP1-LFCO	* RA-1-1-27H	*
349					SUR-021-R	+			
350	179	5	1.47E-10	0.97460	AP04DX4CP1-LFCO	* /CONT-LEAK	* 1E-T101	* RA-1-1-27H	*
351					SUR-021-R	+			
352	178	5	1.47E-10	0.97490	AP037X4CP1-LFCO	* /CONT-LEAK	* 1E-T102	* RA-1-1-27H	*
353					SUR-021-R	+			
354	177	5	1.47E-10	0.97521	/CONT-LEAK	* 1E-T102	* LAK2BACXCP4-LFCO	* RA-1-1-27H	*
355					SUR-021-R	+			
356	175	5	1.47E-10	0.97551	/CONT-LEAK	* 1E-T101	* LAK2BBXCP4-LFCO	* RA-1-1-27H	*
357					SUR-021-R	+			

358	174	5	1.47E-10	0.97582	/CONT-LEAK	* IE-T102	* LAK3ARCXCP1-LFCD	* RA-1-1-27H	*
359					SUR-021-R	+			
360	180	6	1.29E-10	0.97609	C00G01F-PLG-LF	* /CONT-LEAK	* IE-T9B	* OPFAIL-VENT-2H	*
361					RA-NONE	* SUR-021-R	+		
362	181	5	1.29E-10	0.97636	C2DGD01F-PLG-LF	* /CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	*
363					SUR-021-R	+			
364	182	6	1.29E-10	0.97663	C2DGD01F-PLG-LF	* /CONT-LEAK	* IE-T9A	* OPFAIL-VENT-2H	*
365					RA-NONE	* SUR-021-R	+		
366	183	5	1.29E-10	0.97690	C00G01F-PLG-LF	* /CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	*
367					SUR-021-R	+			
368	184	5	1.20E-10	0.97715	/CONT-LEAK	* IE-T102	* NWVY01CA-FMS-LF	* RA-MSLDV-1-2H	*
369					SUR-021-R	+			
370	185	5	1.20E-10	0.97740	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* SEVY03CB-FMS-LF	*
371					SUR-021-R	+			
372	186	5	1.12E-10	0.97763	2DGTPK1B-ROD-LFD	* /CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	*
373					SUR-021-R	+			
374	199	5	1.12E-10	0.97786	/CONT-LEAK	* IE-T102	* NWVY01CA-F-UUM	* RA-MSLDV-1-2H	*
375					SUR-021-R	+			
376	191	5	1.12E-10	0.97809	/CONT-LEAK	* CSCF068B-VCC-LF	* IE-T101	* RA-MSLDV-1-2H	*
377					SUR-021-R	+			
378	197	6	1.12E-10	0.97833	/CONT-LEAK	* CSCF068B-VCC-LF	* IE-T9A	* OPFAIL-VENT-2H	*
379					RA-NONE	* SUR-021-R	+		
380	193	6	1.12E-10	0.97856	/CONT-LEAK	* CSCF068A-VCC-LF	* IE-T9B	* OPFAIL-VENT-2H	*
381					RA-NONE	* SUR-021-R	+		
382	190	5	1.12E-10	0.97879	/CONT-LEAK	* CSCF068A-VCC-LF	* IE-T102	* RA-MSLDV-1-2H	*
383					SUR-021-R	+			
384	200	6	1.12E-10	0.97902	/CONT-LEAK	* FLOW-RHR-B3	* IE-T101	* RA-MSLDV-1-2H	*
385					RHRF48BB-V00-LF	* SUR-021-R	+		
386	188	5	1.12E-10	0.97925	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRB01AA-B00-LF	*
387					SUR-021-R	+			
388	189	5	1.12E-10	0.97949	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRB01BB-B00-LF	*
389					SUR-021-R	+			
390	195	5	1.12E-10	0.97972	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* SEVY03CB-F-UUM	*
391					SUR-021-R	+			
392	194	7	1.12E-10	0.97995	/CONT-LEAK	* FLOW-RHR-B3	* IE-T9A	* OPFAIL-VENT-2H	*
393					RA-NONE	* RHRF48BB-V00-LF	* SUR-021-R	+	
394	192	6	1.12E-10	0.98018	/CONT-LEAK	* IE-T9A	* OPFAIL-VENT-2H	* RA-NONE	*
395					RHRB01BB-B00-LF	* SUR-021-R	+		
396	198	7	1.12E-10	0.98041	/CONT-LEAK	* FLOW-RHR-A3	* IE-T9B	* OPFAIL-VENT-2H	*
397					RA-NONE	* RHRF48AA-V00-LF	* SUR-021-R	+	
398	187	6	1.12E-10	0.98065	/CONT-LEAK	* IE-T9B	* OPFAIL-VENT-2H	* RA-NONE	*
399					RHRB01AA-B00-LF	* SUR-021-R	+		
400	196	6	1.12E-10	0.98088	/CONT-LEAK	* FLOW-RHR-A3	* IE-T102	* RA-MSLDV-1-2H	*
401					RHRB01AA-V00-LF	* SUR-021-R	+		
402	202	7	1.10E-10	0.98111	1EBZ01A-ROD-LF	* /CONT-LEAK	* IE-T5	* NOFLOW-RHR-A1	*
403					RA-NONE	* RHR301AX-STR	* SUR-022-R	+	
404	201	7	1.03E-10	0.98132	1EB236B-BCD-LF	* /CONT-LEAK	* IE-T3	* NOFLOW-RHR-A1	*
405					RA-NONE	* RHR301AX-STR	* SUR-021-R	+	
406	206	6	8.96E-11	0.98151	1EB36YB-BCD-LF	* /CONT-LEAK	* IE-T1	* RA-SV-1-2H	*
407					RHRH01AX-HTX-LFB	* SUR-021-R	+		
408	205	6	3.96E-11	0.98169	1EB235A-BCD-LF	* /CONT-LEAK	* IE-T1	* RA-MSLDV-1-2H	*
409					RHRH01BX-HTX-LFB	* SUR-021-R	+		



410	208	6	8.92E-11	0.98188	/CONT-LEAK	* IE-T101	* LAK2BRCB-RCO-LFO	* LAK70BRB-ROO-LFO
411					RA-T-1-27H	* SUR-021-R	+	
412	207	6	8.92E-11	0.98206	/CONT-LEAK	* IE-T102	* LAK2ARCA-RCO-LFO	* LAK70ARA-ROO-LFO
413					RA-T-1-27H	* SUR-021-R	+	
414	209	7	8.75E-11	0.98225	1E82368-BCO-LF	* /CONT-LEAK	* IE-T2	* NOFLOW-RHR-A1
415					RA-NONE	* RHR301AX-STR	* SUR-021-R	+
416	210	7	6.90E-11	0.98239	1E82368-BCO-LF	* /CONT-LEAK	* IE-T4	* NOFLOW-RHR-A1
417					RA-NONE	* RHR301AX-STR	* SUR-021-R	+
418	222	5	6.69E-11	0.98253	2DGD1PK18CA-LFO	* /CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H
419					SUR-021-R	+		
420	230	5	6.69E-11	0.98267	/CONT-LEAK	* CSCD300B-N-UUM	* IE-T101	* RA-MSLDV-1-2H
421					SUR-021-R	+		
422	228	5	6.69E-11	0.98281	/CONT-LEAK	* CSCF00BA-V-UUM	* IE-T102	* RA-MSLDV-1-2H
423					SUR-021-R	+		
424	225	5	6.69E-11	0.98295	C0DGD1F-S-UUM	* /CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H
425					SUR-021-R	+		
426	223	5	6.69E-11	0.98309	/CONT-LEAK	* IE-T102	* NWYD1AX-A-UUM	* RA-MSLDV-1-2H
427					SUR-021-R	+		
428	221	5	6.69E-11	0.98322	/CONT-LEAK	* CSCD300A-S-UUM	* IE-T102	* RA-MSLDV-1-2H
429					SUR-021-R	+		
430	218	5	6.69E-11	0.98336	/CONT-LEAK	* IE-T102	* PC02AAAX-ADP-LFO	* RA-MSLDV-1-2H
431					SUR-021-R	+		
432	216	5	6.69E-11	0.98350	2DGD1PSC-000-LFO	* /CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H
433					SUR-021-R	+		
434	211	5	6.69E-11	0.98364	/CONT-LEAK	* CSCF068B-V-UUM	* IE-T101	* RA-MSLDV-1-2H
435					SUR-021-R	+		
436	238	5	6.69E-11	0.98378	C2DGD1F-S-UUM	* /CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H
437					SUR-021-R	+		
438	245	6	6.69E-11	0.98392	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF47BB-V-UUM
439					SCSF068B-DENER	* SUR-021-R	+	
440	244	5	6.69E-11	0.98406	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF65AA-N-UUM
441					SUR-021-R	+		
442	243	5	6.69E-11	0.98420	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* SEVY03AX-A-UUM
443					SUR-021-R	+		
444	242	5	6.69E-11	0.98434	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF60AA-S-UUM
445					SUR-021-R	+		
446	241	5	6.69E-11	0.98448	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF51AA-N-UUM
447					SUR-021-R	+		
448	240	5	6.69E-11	0.98462	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRH01BX-H-UUM
449					SUR-021-R	+		
450	239	5	6.69E-11	0.98476	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF51BB-N-UUM
451					SUR-021-R	+		
452	237	5	6.69E-11	0.98490	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRH01AX-H-UUM
453					SUR-021-R	+		
454	236	5	6.69E-11	0.98503	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF55BX-R-UUM
455					SUR-021-R	+		
456	234	5	6.69E-11	0.98517	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF74BB-V-UUM
457					SUR-021-R	+		
458	233	5	6.69E-11	0.98531	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF60RB-S-UUM
459					SUR-021-R	+		
460	232	6	7E-11	0.98545	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF47AA-V-UUM
461					SCSF06AA-DENER	* SUR-021-R	+	

462	231	6	6.69E-11	0.98559	/CONT-LEAK	* FLOW-RHR-B3	* IE-T101	* RA-MSLDV-1-2H	*
463					RHRF488B-V-UUM	* SUR-021-R	+		
464	229	6	6.69E-11	0.98573	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF88BX-R-UUM	*
465					SCSF068B-DENER	* SUR-021-R	+		
466	227	5	6.69E-11	0.98587	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF74AA-V-UUM	*
467					SUR-021-R	+			
468	235	5	6.69E-11	0.98601	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* SCSF06AA-V-UUM	*
469					SUR-021-R	+			
470	224	5	6.69E-11	0.98615	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* SCSF068B-V-UUM	*
471					SUR-021-R	+			
472	220	6	6.69E-11	0.98629	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF64AA-V-UUM	*
473					SCSF06AA-DENER	* SUR-021-R	+		
474	226	6	6.69E-11	0.98643	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF648B-V-UUM	*
475					SCSF068B-DENER	* SUR-021-R	+		
476	219	5	6.69E-11	0.98657	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF87AA-V-UUM	*
477					SUR-021-R	+			
478	217	5	6.69E-11	0.98670	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF878B-V-UUM	*
480	214	6	6.69E-11	0.98684	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF88AX-R-UUM	*
481					SCSF06AA-DENER	* SUR-021-R	+		
482	213	5	6.69E-11	0.98698	/CONT-LEAK	* IE-T101	* RA-MSLDV-1-2H	* RHRF658B-N-UUM	*
483					SUR-021-R	+			
484	215	6	6.69E-11	0.98712	/CONT-LEAK	* FLOW-RHR-A3	* IE-T102	* RA-MSLDV-1-2H	*
485					RHRF48AA-V-UUM	* SUR-021-R	+		
486	212	5	6.69E-11	0.98726	/CONT-LEAK	* IE-T102	* RA-MSLDV-1-2H	* RHRF55AX-R-UUM	*
487					SUR-021-R	+			
488	247	6	6.14E-11	0.98739	/CONT-LEAK	* IE-T102	* LPCI-BETA	* LPCI-PMS-CM	*
489					RA-MSLDV-1-2H	* SUR-021-R	+		
490	246	6	6.14E-11	0.98752	/CONT-LEAK	* IE-T101	* LPCI-BETA	* LPCI-PMS-CM	*
491					RA-MSLDV-1-2H	* SUR-021-R	+		
492	269	6	5.86E-11	0.98764	1E8235A-B-UUM	* /CONT-LEAK	* IE-T5	* LAK9BRCB-ROO-LFO	*
493					RA-1-1-27H	* SUR-022-R	+		
494	268	6	5.86E-11	0.98776	1E8236B-B-UUM	* /CONT-LEAK	* IE-T5	* LAK18ARA-ROO-LFO	*
495					RA-1-1-27H	* SUR-022-R	+		
496	266	6	5.86E-11	0.98788	1E8235A-B-UUM	* /CONT-LEAK	* IE-T5	* LAK188RB-ROO-LFO	*
497					RA-1-1-27H	* SUR-022-R	+		
498	265	6	5.86E-11	0.98800	1E8236B-B-UUM	* /CONT-LEAK	* IE-T5	* LAK10RCA-ROO-LFO	*
499					RA-1-1-27H	* SUR-022-R	+		
500	264	6	5.86E-11	0.98813	1E42YB-V-UUM	* /CONT-LEAK	* IE-T5	* LAK18ARA-ROO-LFO	*
501					RA-1-1-27H	* SUR-022-R	+		
502	267	6	5.86E-11	0.98825	1E41YA-V-UUM	* /CONT-LEAK	* IE-T5	* LAK9BRCB-ROO-LFO	*
503					RA-1-1-27H	* SUR-022-R	+		
504	263	6	5.86E-11	0.98837	1E8236B-B-UUM	* /CONT-LEAK	* IE-T5	* LAK9ARCA-ROO-LFO	*
505					RA-1-1-27H	* SUR-022-R	+		
506	262	6	5.86E-11	0.98849	1E42YB-V-UUM	* /CONT-LEAK	* IE-T5	* LAK10RCA-ROO-LFO	*
507					RA-1-1-27H	* SUR-022-R	+		
508	261	6	5.86E-11	0.98861	1E41YA-V-UUM	* /CONT-LEAK	* IE-T5	* LAK188RB-ROO-LFO	*
509					RA-1-1-27H	* SUR-022-R	+		
510	260	6	5.86E-11	0.98873	1E42YB-V-UUM	* /CONT-LEAK	* IE-T5	* LAK9ARCA-ROO-LFO	*
511					RA-1-1-27H	* SUR-022-R	+		
512	249	5	5.61E-11	0.98885	/CONT-LEAK	* IE-T101	* RA-2-11-27H	* RHRC003B-RUM-1	*
513					SUR-021-R	+			

514	248	5	5.61E-11	0.98897	/CONT-LEAK	* 1E-T102	* LESC002A-RUM-1	* RA-2-11-27H	*
515					SUR-021-R	+			
516	255	6	5.44E-11	0.98908	1E8236B-B-UUM	* /CONT-LEAK	* 1E-T3	* LAK9ARCA-ROO-LFO	*
517					RA-1-1-27H	* SUR-021-R	+		
518	254	6	5.44E-11	0.98919	1E42YB-V-UUM	* /CONT-LEAK	* 1E-T3	* LAK18ARA-ROO-LFO	*
519					RA-1-1-27H	* SUR-021-R	+		
520	252	6	5.44E-11	0.98931	1E41YA-V-UUM	* /CONT-LEAK	* 1E-T3	* LAK9BRCB-ROO-LFO	*
521					RA-1-1-27H	* SUR-021-R	+		
522	251	6	5.44E-11	0.98942	1E8235A-B-UUM	* /CONT-LEAK	* 1E-T3	* LAK18BRB-ROO-LFO	*
523					RA-1-1-27H	* SUR-021-R	+		
524	253	6	5.44E-11	0.98953	1E42YB-V-UUM	* /CONT-LEAK	* 1E-T3	* LAK9ARCA-ROO-LFO	*
525					RA-1-1-27H	* SUR-021-R	+		
526	250	6	5.44E-11	0.98965	1E8236B-B-UUM	* /CONT-LEAK	* 1E-T3	* LAK10RCA-ROO-LFO	*
527					RA-1-1-27H	* SUR-021-R	+		
528	259	6	5.44E-11	0.98976	1E41YA-V-UUM	* /CONT-LEAK	* 1E-T3	* LAK18BRB-ROO-LFO	*
529					RA-1-1-27H	* SUR-021-R	+		
530	258	6	5.44E-11	0.98987	1E42YB-V-UUM	* /CONT-LEAK	* 1E-T3	* LAK10RCA-ROO-LFO	*
531					RA-1-1-27H	* SUR-021-R	+		
532	257	6	5.44E-11	0.98999	1E8235A-B-UUM	* /CONT-LEAK	* 1E-T3	* LAK9BRCB-ROO-LFO	*
533					RA-1-1-27H	* SUR-021-R	+		
534	256	6	5.44E-11	0.99010	1E8236B-B-UUM	* /CONT-LEAK	* 1E-T3	* LAK18ARA-ROO-LFO	*
535					RA-1-1-27H	* SUR-021-R	+		
536	271	6	4.92E-11	0.99020	1E8236B-BCO-LF	* /CONT-LEAK	* 1E-T1	* LAK3ARCA-RCO-LFO	*
537					RA-1-1-27H	* SUR-021-R	+		
538	270	6	4.92E-11	0.99030	1E8235A-BCO-LF	* /CONT-LEAK	* 1E-T1	* LAK3BRCB-RCO-LFO	*
539					RA-1-1-27H	* SUR-021-R	+		
540	281	6	4.64E-11	0.99040	1E41YA-V-UUM	* /CONT-LEAK	* 1E-T2	* LAK9BRCB-ROO-LFO	*
541					RA-1-1-27H	* SUR-021-R	+		
542	280	6	4.64E-11	0.99050	1E8235A-B-UUM	* /CONT-LEAK	* 1E-T2	* LAK18BRB-ROO-LFO	*
543					RA-1-1-27H	* SUR-021-R	+		
544	279	6	4.64E-11	0.99059	1E41YA-V-UUM	* /CONT-LEAK	* 1E-T2	* LAK18BRB-ROO-LFO	*
545					RA-1-1-27H	* SUR-021-R	+		
546	278	6	4.64E-11	0.99069	1E8236B-B-UUM	* /CONT-LEAK	* 1E-T2	* LAK18ARA-ROO-LFO	*
547					RA-1-1-27H	* SUR-021-R	+		
548	274	6	4.64E-11	0.99079	1E8236B-B-UUM	* /CONT-LEAK	* 1E-T2	* LAK9ARCA-ROO-LFO	*
549					RA-1-1-27H	* SUR-021-R	+		
550	273	6	4.64E-11	0.99088	1E42YB-V-UUM	* /CONT-LEAK	* 1E-T2	* LAK18ARA-ROO-LFO	*
551					RA-1-1-27H	* SUR-021-R	+		
552	272	6	4.64E-11	0.99098	1E8235A-B-UUM	* /CONT-LEAK	* 1E-T2	* LAK9BRCB-ROO-LFO	*
553					RA-1-1-27H	* SUR-021-R	+		
554	275	6	4.64E-11	0.99108	1E42YB-V-UUM	* /CONT-LEAK	* 1E-T2	* LAK10RCA-ROO-LFO	*
555					RA-1-1-27H	* SUR-021-R	+		
556	277	6	4.64E-11	0.99117	1E8236B-B-UUM	* /CONT-LEAK	* 1E-T2	* LAK10RCA-ROO-LFO	*
557					RA-1-1-27H	* SUR-021-R	+		
558	276	6	4.64E-11	0.99127	1E42YB-V-UUM	* /CONT-LEAK	* 1E-T2	* LAK9ARCA-ROO-LFO	*
559					RA-1-1-27H	* SUR-021-R	+		
560	302	7	4.46E-11	0.99136	1E8235A-B-UUM	* /CONT-LEAK	* FLOW-RHR-B3	* 1E-T5	*
561					LAK93BRC-ROO-LFO	* RA-2-11-27H	* SUR-022-R	+	
562	301	7	4.46E-11	0.99145	1E8236B-B-UUM	* /CONT-LEAK	* FLOW-RHR-A3	* 1E-T5	*
563					LAK93ARC-ROO-LFO	* RA-2-11-27H	* SUR-022-R	+	

SEQUENCE 122

TOP EVENT DP0SA1-T-SEQ2A CONTAINS 263 EVENTS IN 1343 CUT SETS  
THE FREQUENCY OF TOP EVENT DP0SA1-T-SEQ2A IS 5.57E-07

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DP0SA1-T-SEQ2A

N	300
MEAN	1.14E-06
STD DEV	6.40E-06
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	3.99E-06

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(\text{EVALUATED WITH } EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD \times \text{RISK REDUCTION}$   
=  $PD \times (1 - EV(J))$   
=  $TEF(\text{EVALUATED WITH } EV(J) = 1) - TEF$

SEQUENCE 122  
RISK REDUCTION 6<sup>th</sup> BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-002-L	1343	1.60E-01 ( 15.0)	5.57E-07 ( 1.5)	0.00E+00	3.99E-06
CONT-LEAK	1343	7.50E-01 ( 12.0)	5.57E-07 ( 1.5)	0.00E+00	3.99E-06
RA-8-27H	994	3.20E-03 ( 48.5)	3.05E-07 ( 3.0)	0.00E+00	1.21E-06
RA-NONE	216	1.00E+00 ( 6.0)	1.93E-07 ( 4.0)		
RA-9-27H	484	4.00E-01 ( 13.0)	1.67E-07 ( 5.0)	0.00E+00	5.17E-07
AP040X2-R00-LFO	82	2.00E-02 ( 29.0)	6.47E-08 ( 6.5)	0.00E+00	2.13E-07
AP039K2-R00-LFO	82	2.00E-02 ( 29.0)	6.47E-08 ( 6.5)	0.00E+00	2.13E-07
DG0-GEN-LF-FIS	99	2.50E-02 ( 18.5)	5.87E-08 ( 8.0)	0.00E+00	1.98E-07
EE-MOP-PSM-BC-R	76	3.30E-01 ( 14.0)	5.66E-08 ( 9.0)		
DG0-GEN-LF-FTR	99	1.90E-02 ( 39.5)	4.46E-08 ( 7.0)	0.00E+00	1.31E-07
DG2A-GEN-LF-FIS	92	2.50E-02 ( 18.5)	4.41E-08 ( 11.0)	0.00E+00	1.51E-07
1EB211YK-BC0-LF	5	7.20E-05 (240.0)	4.34E-08 ( 12.5)	0.00E+00	2.91E-07
1EB1Y22X-BC0	5	7.20E-05 (240.0)	4.34E-08 ( 12.5)	0.00E+00	2.91E-07
1EB2Y22X-BC0	3	7.20E-05 (240.0)	4.32E-08 ( 14.5)	0.00E+00	2.88E-07
1EB212YK-BC0-LF	3	7.20E-05 (240.0)	4.32E-08 ( 14.5)	0.00E+00	2.88E-07
LA-1-1-27H	124	2.1E-03 ( 90.5)	4.09E-08 ( 16.0)	0.00E+00	2.46E-07
DG2A-GEN-LF-FTR	92	1.9E-02 ( 39.5)	3.35E-08 ( 7.0)	0.00E+00	9.38E-08
DG0-G-UUM	41	6.00E-03 ( 43.5)	2.55E-08 ( 18.0)	0.00E+00	1.29E-07
RHR01AX-HYK-LF8	26	6.20E-03 ( 41.5)	1.85E-08 ( 19.0)	0.00E+00	8.08E-08
DG2A-GEN-LF-FTR	41	6.00E-03 ( 43.5)	1.72E-08 ( 20.0)	0.00E+00	9.93E-08
91-1-27	35	1.60E-03 ( 94.0)	1.62E-08 ( 21.0)	0.00E+00	7.71E-08
1-1-27	42	1.00E+00 ( 6.0)	1.10E-08 ( 22.0)		
R-1BK-h	23	6.20E-03 ( 41.5)	1.09E-08 ( 23.0)	0.00E+00	6.03E-08
FLOW-RHR-83	29	1.00E+00 ( 6.0)	1.03E-08 ( 24.0)		
LAK9BRCB-R00-LFO	16	2.00E-02 ( 29.0)	9.76E-09 ( 25.5)	0.00E+00	5.07E-08
LAK188RS-R00-LFO	16	2.00E-02 ( 29.0)	9.76E-09 ( 25.5)	0.00E+00	7.34E-08
RLOSP	73	2.10E-04 (201.0)	9.12E-09 ( 27.0)	0.00E+00	2.12E-08
RHR002AP-P-UUM	26	3.00E-03 ( 54.0)	8.93E-09 ( 28.0)	0.00E+00	3.17E-08
CG0601P-P-UUM	17	3.00E-03 ( 54.0)	8.62E-09 ( 29.0)	0.00E+00	3.17E-08
LCSC002A-P-UUM	25	3.00E-03 ( 54.0)	8.56E-09 ( 30.0)	0.00E+00	3.11E-08
RHR0022A-P-UUM	15	3.00E-03 ( 54.0)	8.41E-09 ( 31.0)	0.00E+00	3.11E-08
DG0-GEN-CC-FIS	36	3.70E-03 ( 45.5)	7.92E-09 ( 32.0)	0.00E+00	1.36E-07
LAK93BRC-R00-LFO	13	2.00E-02 ( 29.0)	7.41E-09 ( 33.0)	0.00E+00	2.46E-08
CG0601P-PMS-LC	17	2.50E-03 ( 76.0)	7.18E-09 ( 34.0)	0.00E+00	1.54E-08
RHR01AA-B00-CC	15	2.50E-03 ( 76.0)	7.01E-09 ( 35.5)	0.00E+00	1.47E-08
MW0101CA-FMS-CP	15	2.50E-03 ( 76.0)	7.01E-09 ( 35.5)	0.00E+00	1.47E-08
1-14BRC-R00-LFO	9	2.00E-02 ( 29.0)	6.62E-09 ( 38.0)	0.00E+00	2.08E-08
FLOW-SPC-B5X	9	1.00E+00 ( 6.0)	6.62E-09 ( 38.0)		
NOFLOW-CSS-B7A	9	1.00E+00 ( 6.0)	6.62E-09 ( 38.0)	0.00E+00	1.05E-08
TEB413A-B00-CC	12	2.50E-03 ( 76.0)	6.45E-09 ( 42.0)	0.00E+00	1.05E-08
DG0-MOP-CUM-CC	12	2.50E-03 ( 76.0)	6.45E-09 ( 42.0)	0.00E+00	1.05E-08
1EB233A-BCC-A5	12	2.50E-03 ( 76.0)	6.45E-09 ( 42.0)	0.00E+00	1.05E-08
1EB412A-BCC-CC	12	2.50E-03 ( 76.0)	6.45E-09 ( 42.0)	0.00E+00	1.05E-08
DG0-010CA-FMS-CC	12	2.50E-03 ( 76.0)	6.45E-09 ( 42.0)	0.00E+00	1.05E-08
SCSF065B-DENER	33	1.00E+00 ( 6.0)	6.34E-09 ( 45.0)		

DG0-BEN-CC-FTR	36	2.80E-03 ( 62.5)	5.99E-09 ( 46.0)	0.00E+00	1.07E-08
DG2A-GEN-CC-FTS	35	3.70E-03 ( 45.5)	5.82E-09 ( 47.0)	0.00E+00	1.21E-08
CZDG01P-P-UUM	16	3.00E-03 ( 54.0)	5.25E-09 ( 48.0)	0.00E+00	2.37E-08
RHR028B-P-UUM	20	3.00E-03 ( 54.0)	5.25E-09 ( 49.0)	0.00E+00	1.87E-08
1E41YA-V-UH	38	1.00E-04 (218.0)	5.10E-09 ( 50.0)	0.00E+00	2.77E-08
RHR028B-P-NDUUM	14	3.00E-03 ( 54.0)	5.04E-09 ( 51.0)	0.00E+00	2.30E-08
CSED130A-PLG-LF	37	1.20E-03 ( 98.0)	4.85E-09 ( 52.0)	0.00E+00	9.91E-09
CRD1-REALIGN-DE	51	2.10E-03 ( 90.5)	4.64E-09 ( 53.0)	0.00E+00	2.21E-08
CZDG01P-FMS-CC	16	2.50E-03 ( 76.0)	4.38E-09 ( 54.0)	0.00E+00	1.64E-08
DG2A-GEN-CC-FTR	33	2.80E-03 ( 62.5)	4.37E-09 ( 55.0)	0.00E+00	1.00E-08
1E8236B-800-LF	47	7.20E-05 (240.0)	4.35E-09 ( 56.0)	0.00E+00	2.29E-08
RHR0168-800-CC	14	2.50E-03 ( 76.0)	4.20E-09 ( 57.0)	0.00E+00	1.59E-08
SEVY03CB-FMS-CC	13	2.50E-03 ( 76.0)	4.05E-09 ( 58.0)	0.00E+00	1.50E-08
DG0V01CA-RUM-0	16	1.43E-03 ( 95.5)	3.78E-09 ( 59.0)	0.00E+00	6.01E-09
C0G01P-FMS-LF	26	1.10E-03 (102.0)	3.74E-09 ( 60.0)	0.00E+00	1.80E-08
RHR028A-PMS-LF	18	1.10E-03 (102.0)	3.18E-09 ( 61.0)	0.00E+00	1.67E-08
C5CD300B-PLG-LF	30	1.20E-03 ( 98.0)	3.17E-09 ( 62.0)	0.00E+00	1.02E-08
EE-C0G01F-PLG	26	7.20E-04 (111.5)	2.91E-09 ( 63.0)	0.00E+00	9.11E-09
1E8422B-800-CC	12	2.50E-03 ( 76.0)	2.84E-09 ( 64.5)	0.00E+00	6.53E-09
DAV-M30-FYM-CC	12	2.50E-03 ( 76.0)	2.84E-09 ( 66.5)	0.00E+00	6.53E-09
1E8423B-800-CC	12	2.50E-03 ( 76.0)	2.84E-09 ( 66.5)	0.00E+00	6.53E-09
1E8425B-800-CC	12	2.50E-03 ( 76.0)	2.84E-09 ( 66.5)	0.00E+00	6.53E-09
1E8234B-800-CC	12	2.50E-03 ( 76.0)	2.84E-09 ( 66.5)	0.00E+00	6.53E-09
DG2V03CB-FMS-CC	12	2.50E-03 ( 76.0)	2.84E-09 ( 66.5)	0.00E+00	6.53E-09
C2DG01P-FMS-LF	25	1.10E-03 (102.0)	2.64E-09 ( 70.0)	0.00E+00	1.76E-08
EE-C5CD300A-PLG	20	7.20E-04 (111.5)	2.57E-09 ( 71.0)	0.00E+00	9.24E-09
C0G01F-PLG-LF	25	5.80E-04 (122.0)	2.40E-09 ( 72.0)	0.00E+00	5.21E-09
NWVY01AX-ACX-LFI	11	8.40E-04 (105.5)	2.30E-09 ( 73.0)	0.00E+00	3.98E-09
DG0V01FX-KLN-LFB	23	5.80E-04 (122.0)	2.29E-09 ( 74.0)	0.00E+00	4.81E-09
FLOW-PHR-A3	22	1.00E+00 ( 6.0)	2.20E-09 ( 75.0)	0.00E+00	1.39E-08
RHR028B-PMS-LF	16	1.10E-03 (102.0)	1.96E-09 ( 76.0)	0.00E+00	6.09E-09
EE-C2DG01F-PLG	26	7.20E-04 (111.5)	1.93E-09 ( 77.0)	0.00E+00	5.35E-09
CZDG01F-PLG-LF	25	5.80E-04 (122.0)	1.83E-09 ( 78.0)	0.00E+00	3.90E-09
D0VB102X-800-LF	21	2.00E-02 ( 29.0)	1.56E-09 ( 79.0)	0.00E+00	3.82E-09
D0VB101X-800-LF	19	2.00E-02 ( 29.0)	1.52E-09 ( 81.0)	0.00E+00	3.82E-09
D0VB111X-800-LF	19	2.00E-02 ( 29.0)	1.52E-09 ( 81.0)	0.00E+00	3.82E-09
D0VB212X-800-LF	19	2.00E-02 ( 29.0)	1.52E-09 ( 81.0)	0.00E+00	3.82E-09
DG2V02Y-KLN-LFB	22	5.80E-04 (122.0)	1.48E-09 ( 83.0)	0.00E+00	2.72E-09
1E8413A-800-LF	12	5.00E-04 (141.0)	1.45E-09 ( 85.0)	0.00E+00	2.45E-09
1E8412A-800-LF	12	5.00E-04 (141.0)	1.45E-09 ( 85.0)	0.00E+00	2.45E-09
1E8233A-800-LF	12	5.00E-04 (141.0)	1.44E-09 ( 87.0)	0.00E+00	9.20E-09
1E427B-V-UUM	22	1.00E-04 (218.0)	1.41E-09 ( 88.0)	0.00E+00	5.58E-09
LAK388C8-RCD-LFO	1	3.40E-03 ( 47.0)	1.34E-09 ( 89.0)	0.00E+00	3.22E-09
SEVY03AX-ACX-LFI	9	8.40E-04 (105.5)	1.33E-09 ( 91.0)	0.00E+00	3.45E-09
RHRF48AA-V00-LF	10	5.00E-04 (141.0)	1.33E-09 ( 91.0)	0.00E+00	2.14E-09
RHR010AA-800-LF	10	5.00E-04 (141.0)	1.33E-09 ( 91.0)	0.00E+00	3.45E-09
C5CF0A8A-VCC-LF	10	5.00E-04 (141.0)	1.29E-09 ( 93.0)	0.00E+00	5.15E-09
EE-C5CD300B-PLG	16	7.20E-04 (111.5)	1.25E-09 ( 94.5)	0.00E+00	2.91E-09
RHR002B-P-UUM	1	3.00E-03 ( 54.0)	1.25E-09 ( 94.5)	0.00E+00	2.91E-09
RA-7-1-27H	1	2.10E-03 ( 90.5)	1.25E-09 ( 96.0)	0.00E+00	4.74E-09
NWVY01CA-FMS-LF	6	5.40E-04 (126.5)	1.21E-09 ( 97.5)	0.00E+00	3.22E-09
LAK96CF3-LF00	1	2.00E-03 ( 60.0)	1.21E-09 ( 97.5)	0.00E+00	3.22E-09

LAK18CP1-LFOO	1	2.90E-03 ( 60.0)	1.21E-09 ( 97.5)	0.00E+00	3.22E-09
DG0V01CA-FMS-LF	5	5.40E-04 (126.5)	1.17E-09 ( 99.0)	0.00E+00	3.80E-09
NWVY01CA-F-UUM	6	5.00E-04 (141.0)	1.15E-09 (100.0)	0.00E+00	4.68E-09
ZC11C001B-P-UUM	12	3.00E-03 ( 54.0)	1.11E-09 (101.0)	0.00E+00	4.40E-09
DG0V02YA-M-UUM	5	5.00E-04 (141.0)	1.08E-09 (103.5)	0.00E+00	4.12E-09
DG0V03YA-M-UUM	5	5.00E-04 (141.0)	1.08E-09 (103.5)	0.00E+00	4.12E-09
DG0V01CA-F-UUM	5	5.00E-04 (141.0)	1.08E-09 (103.5)	0.00E+00	4.12E-09
DG0V01YA-M-UUM	5	5.00E-04 (141.0)	1.08E-09 (103.5)	0.00E+00	4.12E-09
LAK936CP3-LFCC	11	2.50E-03 ( 76.0)	9.19E-10 (106.0)	0.00E+00	2.01E-09
ZC11C001B-B00-CC	11	2.50E-03 ( 76.0)	9.08E-10 (107.0)	0.00E+00	2.47E-09
TECCZ0EP-FRP-27H	8	3.20E-03 ( 48.5)	8.89E-10 (106.0)	0.00E+00	2.38E-09
RHRB01BB-B00-LF	10	5.00E-04 (141.0)	8.30E-10 (109.0)	0.00E+00	2.69E-09
DG0V02YA-M00-LF	7	3.00E-04 (177.5)	8.05E-10 (111.0)	0.00E+00	4.52E-09
DG0V03YA-MCC-LF	7	3.00E-04 (177.5)	8.05E-10 (111.0)	0.00E+00	4.52E-09
DG0V01YA-MCC-LF	7	3.00E-04 (177.5)	8.05E-10 (111.0)	0.00E+00	4.52E-09
RHRF48BB-V00-LF	9	5.00E-04 (141.0)	8.04E-10 (113.5)	0.00E+00	2.62E-09
CSCF068B-VCC-LF	9	5.00E-04 (141.0)	8.04E-10 (113.5)	0.00E+00	2.62E-09
1E6234B-BCC-LF	12	5.00E-04 (141.0)	7.96E-10 (115.0)	0.00E+00	1.35E-09
RHRF48BB-V0G-CC	1	2.50E-03 ( 76.0)	7.92E-10 (116.5)	0.00E+00	1.65E-09
CSCF068B-VCC-CC	1	2.50E-03 ( 76.0)	7.92E-10 (116.5)	0.00E+00	1.65E-09
1E8425B-BCC-LF	11	5.00E-04 (141.0)	7.70E-10 (119.0)	0.00E+00	1.33E-09
1E8423B-B00-LF	11	5.00E-04 (141.0)	7.70E-10 (119.0)	0.00E+00	1.33E-09
1E8422B-BCC-LF	11	5.00E-04 (141.0)	7.70E-10 (119.0)	0.00E+00	1.33E-09
RHRF87AA-V-UUM	6	3.00E-04 (177.5)	6.93E-10 (123.0)	0.00E+00	1.59E-09
RHRF51AA-N-UUM	6	3.00E-04 (177.5)	6.93E-10 (123.0)	0.00E+00	1.59E-09
RHRF88AX-R-UUM	6	3.00E-04 (177.5)	6.93E-10 (123.0)	0.00E+00	2.06E-09
PC02AAAX-A00-LFO	6	3.00E-04 (177.5)	6.93E-10 (123.0)	0.00E+00	1.59E-09
RHRF48AA-V-UUM	5	5.40E-04 (126.5)	6.75E-10 (126.0)	0.00E+00	3.74E-09
SEVY03CB-FMS-LF	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
RHRH01AX-H-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	3.04E-09
RHRF65AA-N-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
RHRF74AA-V-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
RHRF64AA-V-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
RHRF55AX-R-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
RHRF77AA-V-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
RHRF60AA-S-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
CSCF008A-V-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	1.58E-09
NWVY01AX-A-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	3.00E-09
CSC0300A-S-UUM	5	3.00E-04 (177.5)	6.75E-10 (132.5)	0.00E+00	3.00E-09
C00G01F-S-UUM	10	7.20E-05 (240.0)	6.64E-10 (139.0)	0.00E+00	6.18E-09
1E836AB-B00-LF	6	5.00E-04 (141.0)	6.47E-10 (140.0)	0.00E+00	2.66E-09
Z0G1PK1B-R00-LFO	4	3.00E-04 (177.5)	6.37E-10 (141.5)	0.00E+00	1.71E-09
1EK*9A18CP6-LFOO	4	3.00E-04 (177.5)	6.37E-10 (141.5)	0.00E+00	1.71E-09
AP251X20P4-LFOO	10	8.40E-05 (226.0)	6.32E-10 (143.0)	0.00E+00	5.48E-09
1EF*5212-B00	5	5.00E-04 (141.0)	6.25E-10 (144.0)	0.00E+00	3.80E-09
SEV*03CB-F-UUM	9	7.20E-05 (240.0)	5.79E-10 (145.0)	0.00E+00	2.20E-09
1E8235A-B00-LF	8	2.50E-03 ( 76.0)	5.62E-10 (146.5)	0.00E+00	1.34E-09
LPCI-PMS-OM	8	1.10E-01 ( 16.0)	5.62E-10 (146.5)	0.00E+00	1.34E-09
LPCI-BETA	9	7.20E-05 (240.0)	5.26E-10 (148.5)	0.00E+00	3.67E-09
1E836YB-B00-LF	9	7.20E-05 (240.0)	5.26E-10 (148.5)	0.00E+00	3.67E-09
1E836Y1X-B00-LF	9	7.20E-05 (240.0)	5.26E-10 (148.5)	0.00E+00	3.67E-09

ZC11F001B-R00-LF	11	1.20E-03 ( 98.0)	5.04E-10 (150.0)	0.00E+00	1.93E-09
1EK1BARC-R00-LFO	5	5.80E-04 (122.0)	4.58E-10 (151.0)	0.00E+00	1.20E-09
RA-1-3-27H	11	2.60E-03 ( 64.0)	4.37E-10 (152.0)	0.00E+00	7.33E-10
DG2V11YB-MCC-LF	6	3.00E-04 (177.5)	3.96E-10 (154.0)	0.00E+00	2.77E-09
DG2V0YB-M00-LF	6	3.00E-04 (177.5)	3.96E-10 (154.0)	0.00E+00	2.77E-09
DG2V09YB-MCC-LF	6	3.00E-04 (177.5)	3.96E-10 (154.0)	0.00E+00	2.77E-09
ZC11C001B-PMS-LF	10	1.10E-03 (102.0)	3.91E-10 (156.0)	0.00E+00	2.52E-09
RHRF65BB-N-UUM	5	3.00E-04 (177.5)	3.75E-10 (158.5)	0.00E+00	1.50E-09
RHRF64BB-V-UUM	5	3.00E-04 (177.5)	3.75E-10 (158.5)	0.00E+00	1.50E-09
RHRF60BB-S-UUM	5	3.00E-04 (177.5)	3.75E-10 (158.5)	0.00E+00	1.50E-09
RHRF48BB-V-UUM	5	3.00E-04 (177.5)	3.75E-10 (158.5)	0.00E+00	1.50E-09
DG2V03CB-FMS-LF	3	5.40E-04 (126.5)	3.74E-10 (161.0)	0.00E+00	1.21E-09
1EBAT2AX-ZBT-LF	8	2.40E-05 (252.5)	3.70E-10 (162.0)	0.00E+00	2.89E-09
SEVY03AX-A-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	2.37E-09
SCSF06BB-V-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
RHRH01BX-H-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	2.37E-09
RHRF88BX-R-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
RHRF87BB-V-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
RHRF74FS-V-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
RHRF55BX-R-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
RHRF51BB-N-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
RHRF47BB-V-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
ZUG01PSC-000-LFO	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.51E-09
ZDGG01PK18CA-LFO0	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.51E-09
CSCF06BB-V-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
CSCD300B-S-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	1.44E-09
CZ0G01F-S-UUM	4	3.00E-04 (177.5)	3.57E-10 (169.5)	0.00E+00	2.37E-09
DG2V03CB-F-UUM	3	5.00E-04 (141.0)	3.47E-10 (178.5)	0.00E+00	1.54E-09
DG2V11YB-M-UUM	3	5.00E-04 (141.0)	3.47E-10 (178.5)	0.00E+00	1.54E-09
DG2V10YB-M-UUM	3	5.00E-04 (141.0)	3.47E-10 (178.5)	0.00E+00	1.54E-09
DG2V09YB-M-UUM	3	5.00E-04 (141.0)	3.47E-10 (178.5)	0.00E+00	1.54E-09
1EB16211-B00	7	8.40E-05 (226.0)	3.39E-10 (181.0)	0.00E+00	1.34E-09
AP037X3-R00-LFO	9	2.00E-02 ( 29.0)	3.38E-10 (182.0)	0.00E+00	6.41E-10
NOFLOW-RH-A1	7	1.00E+00 ( 6.0)	3.29E-10 (183.0)	0.00E+00	2.74E-09
1EBAT75X-ZBT-LF	7	2.40E-05 (252.5)	3.27E-10 (184.0)	0.00E+00	5.95E-10
AP040X3-R00-LFO	8	2.00E-02 ( 29.0)	2.92E-10 (185.0)	0.00E+00	8.54E-10
1EB235XA-B00-LF	5	7.20E-05 (240.0)	2.91E-10 (186.0)	0.00E+00	1.79E-09
LAK9ARCA-R00-LFO	10	2.00E-02 ( 29.0)	2.87E-10 (183.0)	0.00E+00	1.79E-09
LAK18ARA-R00-LFO	10	2.00E-02 ( 29.0)	2.87E-10 (183.0)	0.00E+00	1.79E-09
LAK10RCA-R00-LFO	10	2.00E-02 ( 29.0)	2.87E-10 (188.0)	0.00E+00	1.79E-09
LAK3BRXC0P1-LFC0	1	6.60E-04 (118.0)	2.74E-10 (191.0)	0.00E+00	1.48E-09
LAK28BXCP4-LFC0	1	6.60E-04 (118.0)	2.74E-10 (191.0)	0.00E+00	1.48E-09
AP040X4CP1-LFC0	1	6.60E-04 (118.0)	2.74E-10 (191.0)	0.00E+00	1.48E-09
NOFLOW-RHR-B1	7	1.00E+00 ( 6.0)	2.59E-10 (193.0)	0.00E+00	6.30E-10
RHR301AX-STR	5	1.10E-04 (209.0)	2.58E-10 (194.0)	0.00E+00	4.39E-10
LPCI-MOV-BETA	10	3.00E-02 ( 17.0)	2.57E-10 (195.0)	0.00E+00	5.18E-10
CCB00G1P-B00-LF	5	DE-05 (226.0)	1.97E-10 (196.0)	0.00E+00	4.16E-10
AP040X2CP7-LFO0	2	3.0E-04 (177.5)	1.95E-10 (198.0)	0.00E+00	4.16E-10
AP039X2CP4-LFO0	2	3.00E-04 (177.5)	1.95E-10 (198.0)	0.00E+00	4.16E-10
TEK1BABC06-LFO0	2	3.00E-04 (177.5)	1.95E-10 (198.0)	0.00E+00	4.16E-10
RA-10-1-27H	2	2.10E-03 ( 90.5)	1.81E-10 (200.0)	0.00E+00	7.14E-10
NOFLOW-SPC-#5X	6	1.00E+00 ( 6.0)	1.76E-10 (202.5)	0.00E+00	6.41E-10





SEQUENCE 122  
RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%
1E81Y22X-BCC	5	7.20E-05 (240.0)	6.02E-04 ( 1.5)	0.00E+00	4.95E-03
1E8211YX-BCC-LF	5	7.20E-05 (240.0)	6.02E-04 ( 1.5)	0.00E+00	4.95E-03
1E82Y22X-BCC	3	7.20E-05 (240.0)	6.01E-04 ( 3.5)	0.00E+00	4.95E-03
1E8212YX-BCC-LF	3	7.20E-05 (240.0)	6.01E-04 ( 3.5)	0.00E+00	4.95E-03
RA-8-27F	994	3.20E-03 ( 48.5)	9.51E-05 ( 5.0)	0.00E+00	7.81E-04
1E8236B-BCC-LF	47	7.20E-05 (240.0)	6.04E-05 ( 6.0)	0.00E+00	4.17E-04
1E41YA-V-UUM	38	1.00E-04 (218.0)	5.10E-05 ( 7.0)	0.00E+00	3.47E-04
RLDSP	73	2.10E-04 (201.0)	4.34E-05 ( 8.0)	0.00E+00	3.33E-04
RA-1-1-27H	124	2.10E-03 ( 90.5)	1.94E-05 ( 9.0)	0.00E+00	1.39E-04
1E8AT2AX-ZBT-LF	8	2.40E-05 (252.5)	1.54E-05 (10.0)	0.00E+00	1.06E-04
1E42YB-V-UUM	22	1.60E-04 (27.0)	1.44E-05 (11.7)	0.00E+00	1.15E-04
1E8AT2BX-ZBT-LF	7	2.40E-05 (252.5)	1.36E-05 (12.0)	0.00E+00	9.32E-05
RA-2-11-27H	35	1.60E-03 ( 94.0)	1.05E-05 (13.0)	0.00E+00	6.38E-05
1E836XB-BCC-LF	10	7.20E-05 (240.0)	9.22E-06 (14.0)	0.00E+00	7.75E-05
1E8235A-BCC-LF	9	7.20E-05 (240.0)	8.04E-06 (15.0)	0.00E+00	5.19E-05
1E816212-BCC	10	8.40E-05 (226.0)	7.53E-06 (16.0)	0.00E+00	6.23E-05
1E836YB-BCC-LF	9	7.20E-05 (240.0)	7.30E-06 (17.5)	0.00E+00	6.16E-05
1E836Y1X-BCC-LF	9	7.20E-05 (240.0)	7.30E-06 (17.5)	0.00E+00	6.16E-05
DG0-G-UUM	41	6.00E-03 ( 43.5)	4.23E-06 (19.0)	0.00E+00	1.87E-05
CG0G01F-PLG-LF	25	5.80E-04 (122.0)	4.14E-06 (20.0)	0.00E+00	1.95E-05
1E835XA-BCC-LF	5	7.20E-05 (240.0)	4.04E-06 (21.0)	0.00E+00	1.71E-05
EE CG0G01F-PLG	26	7.20E-04 (111.5)	4.04E-06 (23.0)	0.00E+00	2.58E-05
1E816211-BCC	7	8.40E-05 (226.0)	4.04E-06 (24.0)	0.00E+00	1.80E-05
CSCD300A-PLG-LF	37	1.20E-03 ( 98.0)	4.03E-06 (25.0)	0.00E+00	2.35E-05
DG0V01FX-KLN-LFB	23	5.80E-04 (122.0)	3.95E-06 (25.0)	0.00E+00	1.80E-05
EE-CSCD300A-PLG	20	7.20E-04 (111.5)	3.56E-06 (26.0)	0.00E+00	1.72E-05
CG0G01P-PMS-LF	26	1.10E-03 (102.0)	3.39E-06 (27.0)	0.00E+00	1.82E-05
AP039X2-R00-LFO	82	2.00E-02 ( 29.0)	3.17E-06 (28.5)	0.00E+00	1.47E-05
AP040X2-R00-LFO	82	2.00E-02 ( 29.0)	3.17E-06 (28.5)	0.00E+00	1.47E-05
CZD0G01F-PLG-LF	25	5.80E-04 (122.0)	2.97E-06 (31.0)	0.00E+00	1.40E-05
RHR02AA-F-UUM	26	3.00E-03 ( 54.0)	2.96E-06 (32.0)	0.00E+00	1.39E-05
RHR01AX-RTX-LFB	26	6.20E-03 ( 41.5)	2.92E-06 (33.0)	0.00E+00	1.19E-05
SUR-002-L	1343	1.60E-01 ( 15.0)	2.90E-06 (35.0)	0.00E+00	1.33E-05
1E8412A-BCC-LF	12	5.00E-04 (141.0)	2.90E-06 (35.0)	0.00E+00	1.33E-05
1E8413A-B00-LF	12	5.00E-04 (141.0)	2.90E-06 (35.0)	0.00E+00	1.33E-05
1E8233A-BCC-LF	12	5.00E-04 (141.0)	2.89E-06 (37.0)	0.00E+00	1.38E-05
RHR02AA-PMS-LF	18	1.10E-03 (102.0)	2.87E-06 (38.0)	0.00E+00	1.42E-05
CG0G01P-PMS-CC	17	3.00E-03 ( 74.0)	2.86E-06 (39.0)	0.00E+00	1.42E-05
CG0G01P-P-UUM	17	3.00E-03 ( 74.0)	2.84E-06 (40.0)	0.00E+00	1.35E-05
DG2A-G-UUM	41	6.00E-03 ( 43.5)	2.84E-06 (41.0)	0.00E+00	1.25E-05
LCSC002A-P-UUM	25	3.00E-03 ( 54.0)	2.80E-06 (42.5)	0.00E+00	1.33E-05
RHR01AA-B00-CC	15	2.50E-03 ( 76.0)	2.80E-06 (42.5)	0.00E+00	1.33E-05
RWY01CA-FMS-CC	15	2.50E-03 ( 76.0)	2.79E-06 (44.0)	0.00E+00	1.33E-05
RHR02AA-P-UUM	15	3.00E-03 ( 54.0)	2.73E-06 (45.0)	0.00E+00	1.32E-05
RWY01AX-ACX-LFI	11	8.40E-04 (105.5)			

DG0V01CA-RUM-0	16	1.40E-03 ( 95.5)	2.69E-06 ( 46.0)	0.00E+00	1.16E-05
DG0V01YA-MCC-LF	7	3.00E-04 (177.5)	2.68E-06 ( 48.0)	0.00E+00	1.26E-05
DG0V02YA-MOO-LF	7	3.00E-04 (177.5)	2.68E-06 ( 48.0)	0.00E+00	1.26E-05
DG0V03YA-MCC-LF	7	3.00E-04 (177.5)	2.68E-06 ( 48.0)	0.00E+00	1.26E-05
EE-C20G01F-PLG	26	7.20E-04 (111.5)	2.67E-06 ( 50.0)	0.00E+00	1.20E-05
RHRF4BAA-V00-LF	10	5.00E-04 (141.0)	2.67E-06 ( 52.0)	0.00E+00	1.14E-05
HRB01AA-B00-LF	10	5.00E-04 (141.0)	2.67E-06 ( 52.0)	0.00E+00	1.15E-05
C-1F068A-VCC-LF	10	5.00E-04 (141.0)	2.67E-06 ( 52.0)	0.00E+00	1.14E-05
CS-0300B-PLG-LF	30	1.20E-03 ( 98.0)	2.64E-06 ( 54.0)	0.00E+00	2.11E-05
DGA-V01CA-FMS-CC	12	2.50E-03 ( 76.0)	2.57E-06 ( 57.0)	0.00E+00	1.10E-05
DOV-M00-COM-CC	12	2.50E-03 ( 76.0)	2.57E-06 ( 57.0)	0.00E+00	1.10E-05
1EB-13A-B00-CC	12	2.50E-03 ( 76.0)	2.57E-06 ( 57.0)	0.00E+00	1.10E-05
1EB-2A-BCC-CC	12	2.50E-03 ( 76.0)	2.57E-06 ( 57.0)	0.00E+00	1.10E-05
1EB23-A-BCC-AS	12	2.50E-03 ( 76.0)	2.55E-06 ( 60.0)	0.00E+00	1.17E-05
DG2V02YA-KLN-LFB	22	5.80E-04 (122.0)	2.40E-06 ( 61.0)	0.00E+00	1.71E-05
C2D001P-PMS-L	25	1.10E-03 (102.0)	2.34E-06 ( 62.0)	0.00E+00	9.71E-06
CCB00G1P-BCO-LF	5	8.40E-05 (209.0)	2.34E-06 ( 63.0)	0.00E+00	9.70E-06
RHR301AX-STR	6	3.00E-04 (177.5)	2.31E-06 ( 66.0)	0.00E+00	1.06E-05
RHRF51AA-N-UUM	6	3.00E-04 (177.5)	2.31E-06 ( 66.0)	0.00E+00	1.06E-05
RHRF4BAA-V-UUM	6	3.00E-04 (177.5)	2.31E-06 ( 66.0)	0.00E+00	1.06E-05
PC02AAAX-A00-LFO	6	3.00E-04 (177.5)	2.31E-06 ( 66.0)	0.00E+00	1.06E-05
RHRF88AX-R-UUM	6	3.00E-04 (177.5)	2.31E-06 ( 66.0)	0.00E+00	1.06E-05
RHRF87AA-V-UUM	6	3.00E-04 (177.5)	2.31E-06 ( 66.0)	0.00E+00	1.06E-05
MWVY01CA-F-UUM	6	5.00E-04 (141.0)	2.31E-06 ( 69.0)	0.00E+00	1.06E-05
MWVY01CA-FMS-LF	6	5.40E-04 (126.5)	2.31E-06 ( 70.0)	0.00E+00	1.06E-05
DG0-GEN-LF-FTR	99	1.90E-02 ( 39.5)	2.31E-06 ( 71.0)	0.00E+00	9.64E-06
F6G-GEN-LF-FTS	99	2.50E-02 ( 18.5)	2.29E-06 ( 72.0)	0.00E+00	9.83E-06
LSC0300A-S-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
RHR01AX-H-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
SCSF06AA-V-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
RHRF64AA-V-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
RHRF55AX-R-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
RHRF65AA-N-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
RHRF60AA-S-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
RHRF74AA-V-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
CSCF008A-V-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
MWVY01AX-A-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
RHRF47AA-V-UUM	5	3.00E-04 (177.5)	2.25E-06 ( 78.5)	0.00E+00	1.03E-05
CO0G01F-S-UUM	5	3.00E-04 (177.5)	2.20E-06 ( 85.0)	0.00E+00	1.69E-05
CRD1-REALIGN-OE	51	2.10E-03 ( 90.5)	2.17E-06 ( 87.5)	0.00E+00	8.94E-06
DG0V03YA-M-UUM	5	5.00E-04 (141.0)	2.17E-06 ( 87.5)	0.00E+00	8.94E-06
DG0V01CA-F-UUM	5	5.00E-04 (141.0)	2.17E-06 ( 87.5)	0.00E+00	8.94E-06
DG0V01YA-M-UUM	5	5.00E-04 (141.0)	2.17E-06 ( 87.5)	0.00E+00	8.94E-06
DG0V02YA-M-UUM	5	5.00E-04 (141.0)	2.17E-06 ( 87.5)	0.00E+00	8.94E-06
DG0V01CA-FMS-LF	5	5.40E-04 (126.5)	2.17E-06 ( 90.0)	0.00E+00	8.94E-06
DG0-GEN-CC-FTR	36	2.80E-03 ( 62.5)	2.13E-06 ( 91.0)	0.00E+00	8.98E-06
DG0-GEN-CC-FTS	36	3.70E-03 ( 45.5)	2.13E-06 ( 92.0)	0.00E+00	8.98E-06
1EB1Y13X-BCD	4	7.20E-05 (240.0)	2.12E-06 ( 94.5)	0.00E+00	8.90E-06
1EB35Y2X-BCO-LF	4	7.20E-05 (240.0)	2.12E-06 ( 94.5)	0.00E+00	8.90E-06
MWV001X-BCO-LF	4	7.20E-05 (240.0)	2.12E-06 ( 94.5)	0.00E+00	8.90E-06
1EB235YA-BCO-LF	4	7.20E-05 (240.0)	2.12E-06 ( 94.5)	0.00E+00	8.90E-06
1EK18A18CP6-LFDO	4	3.00E-04 (177.5)	2.12E-06 ( 97.5)	0.00E+00	8.90E-06

AP251M2CPA-LFOO	4	3.00E-04 (177.5)	2.12E-06 ( 97.5)	0.00E+00	8.90E-06
EE-C5CD300B-PLG	16	7.20E-04 (111.5)	1.79E-06 ( 99.0)	0.00E+00	8.17E-06
RHR028B-PMS-LF	16	1.10E-03 (102.0)	1.78E-06 (100.0)	0.00E+00	1.20E-05
RHR018X-RTX-LFB	23	6.20E-03 ( 41.5)	1.75E-06 (101.0)	0.00E+00	1.19E-05
C2D001P-PMS-CC	16	2.50E-03 ( 76.0)	1.75E-06 (102.0)	0.00E+00	1.21E-05
C2D001P-P-UUM	16	3.00E-03 ( 54.0)	1.75E-06 (103.0)	0.00E+00	1.21E-05
RHR028B-P-UUM	20	3.00E-03 ( 54.0)	1.74E-06 (104.0)	0.00E+00	1.18E-05
DG2A-GEN-LF-FTR	92	1.90E-02 ( 39.5)	1.73E-06 (105.0)	0.00E+00	6.84E-06
DG2A-GEN-LF-FTS	92	2.50E-02 ( 38.5)	1.72E-06 (105.0)	0.00E+00	7.08E-06
RHR018R-R00-CC	14	2.50E-03 ( 76.0)	1.68E-06 (107.0)	0.00E+00	1.13E-05
RHR028B-P-UUM	14	3.00E-03 ( 54.0)	1.68E-06 (108.0)	0.00E+00	1.12E-05
RHR018B-R00-F	10	5.00E-04 (141.0)	1.66E-06 (109.0)	0.00E+00	1.14E-05
SEVY03CB-FMS-C	13	2.50E-03 ( 76.0)	1.62E-06 (110.0)	0.00E+00	1.08E-05
RHRF488B-V00-LF	9	5.00E-04 (141.0)	1.61E-06 (111.5)	0.00E+00	1.11E-05
CSCF068B-VCC-LF	9	5.00E-04 (141.0)	1.61E-06 (111.5)	0.00E+00	1.11E-05
SEVY03AK-ACK-LFT	9	8.00E-04 (105.5)	1.59E-06 (113.0)	0.00E+00	1.10E-05
1E8234B-BCC-LF	12	5.00E-04 (141.0)	1.59E-06 (114.0)	0.00E+00	8.80E-06
DG2A-GEN-CC-FTS	35	3.70E-03 ( 45.5)	1.57E-06 (115.0)	0.00E+00	6.17E-06
DG2A-GEN-CC-FTR	35	2.80E-03 ( 62.5)	1.56E-06 (116.0)	0.00E+00	6.46E-06
1E8236B-R-UUM	2	1.00E-04 (218.0)	1.55E-06 (117.0)	0.00E+00	5.25E-06
1E0425B-BCC-LF	11	5.00E-04 (141.0)	1.54E-06 (119.0)	0.00E+00	8.61E-06
1E8423B-R00-LF	11	5.00E-04 (141.0)	1.54E-06 (119.0)	0.00E+00	8.61E-06
1E8422B-BCC-LF	11	5.00E-04 (141.0)	1.54E-06 (119.0)	0.00E+00	8.61E-06
DG2V11B-MCC-LF	6	3.00E-04 (177.5)	1.52E-06 (122.0)	0.00E+00	6.99E-06
DG2V10B-M00-LF	6	3.00E-04 (177.5)	1.52E-06 (122.0)	0.00E+00	6.99E-06
DG2V09B-MCC-LF	6	3.00E-04 (177.5)	1.52E-06 (122.0)	0.00E+00	6.99E-06
ZD01PK18-R00-LFO	6	5.00E-04 (141.0)	1.49E-06 (124.0)	0.00E+00	8.58E-06
CR2D01P-BCC-LF	4	8.40E-05 (226.0)	1.29E-06 (125.0)	0.00E+00	7.72E-06
RHR018X-S1R	4	1.10E-04 (209.0)	1.29E-06 (126.0)	0.00E+00	7.72E-06
RHRFUP2X-FUS-LF	1	7.20E-05 (240.0)	1.26E-06 (127.5)	0.00E+00	7.58E-06
RHRFUP1X-FUS-LF	1	7.20E-05 (240.0)	1.26E-06 (127.5)	0.00E+00	7.58E-06
RHRF658B-N-UUM	5	3.00E-04 (177.5)	1.25E-06 (130.5)	0.00E+00	8.28E-06
RHRF648B-V-UUM	5	3.00E-04 (177.5)	1.25E-06 (130.5)	0.00E+00	8.28E-06
RHRF608F-S-UUM	5	3.00E-04 (177.5)	1.25E-06 (130.5)	0.00E+00	8.28E-06
RHRF488B-V-UUM	5	3.00E-04 (177.5)	1.25E-06 (130.5)	0.00E+00	8.28E-06
SEVY03CB-F-UUM	5	5.00E-04 (141.0)	1.25E-06 (133.0)	0.00E+00	8.28E-06
SEVY03CB-FMS-LF	5	5.40E-04 (126.5)	1.25E-06 (134.0)	0.00E+00	8.28E-06
SEVY03AX-A-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
SCSFD68B-V-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
RHR018X-R-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
RHRF88B-R-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
RHRF878B-V-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
RHRF748B-V-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
RHRF58B-R-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
RHRF518B-N-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
RHRF478B-V-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
ZD001PK18CA-LFOO	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
CSCF068B-V-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
ZD001PSC-000-LFO	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
C5CD300B-S-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
C2D001F-S-UUM	4	3.00E-04 (177.5)	1.19E-06 (141.5)	0.00E+00	8.10E-06
DG2V03CB-FMS-CC	12	2.50E-03 ( 76.0)	1.13E-06 (151.5)	0.00E+00	6.27E-06

1E8234B-BCC-CC	12	2.50E-03 ( 76.0)	1.13E-06 (151.5)	0.00E+00	6.27E-06
DAV-M00-COM-CC	12	2.50E-03 ( 76.0)	1.13E-06 (151.5)	0.00E+00	6.27E-06
1E8425B-BCC-CC	12	2.50E-03 ( 76.0)	1.13E-06 (151.5)	0.00E+00	6.27E-06
1E8423B-600-CC	12	2.50E-03 ( 76.0)	1.13E-06 (151.5)	0.00E+00	6.27E-06
1E8422B-BCC-CC	12	2.50E-03 ( 76.0)	1.13E-06 (151.5)	0.00E+00	6.27E-06
SEVB001X-BCC-LF	3	7.20E-05 (240.0)	1.06E-06 (157.5)	0.00E+00	6.48E-06
RHRF98B-XCC-LF	3	1.10E-04 (209.0)	1.06E-06 (157.5)	0.00E+00	6.48E-06
RHRF47B-VCC-LF	3	1.10E-04 (209.0)	1.06E-06 (157.5)	0.00E+00	6.48E-06
RHRF03B-VCC-LF	3	1.10E-04 (209.0)	1.06E-06 (157.5)	0.00E+00	6.48E-06
RHRF04B-VCC-LF	3	1.10E-04 (209.0)	1.06E-06 (157.5)	0.00E+00	6.48E-06
1EK18ARC-R00-LFO	5	5.80E-04 (122.0)	7.88E-07 (168.0)	0.00E+00	3.52E-06
DG2V03CB-F-UUM	3	5.00E-04 (141.0)	6.93E-07 (162.5)	0.00E+00	3.39E-06
DG2V11YB-M-UUM	3	5.00E-04 (141.0)	6.93E-07 (162.5)	0.00E+00	3.39E-06
DG2V10YB-M-UUM	3	5.00E-04 (141.0)	6.93E-07 (162.5)	0.00E+00	3.39E-06
DG2V09YB-M-UUM	3	5.00E-04 (141.0)	6.93E-07 (162.5)	0.00E+00	3.39E-06
DG2V03CB-FMS-LF	3	5.40E-04 (126.5)	6.93E-07 (162.5)	0.00E+00	3.39E-06
36X2803X-BCC-LF	2	7.20E-05 (240.0)	6.49E-07 (168.0)	0.00E+00	3.79E-06
DAVB002X-BCC-LF	2	7.20E-05 (240.0)	6.49E-07 (168.0)	0.00E+00	3.79E-06
DAVB001X-BCC-LF	2	7.20E-05 (240.0)	6.49E-07 (168.0)	0.00E+00	3.79E-06
1E836X3X-BCC-LF	2	7.20E-05 (240.0)	6.49E-07 (168.0)	0.00E+00	3.79E-06
1E82Y14X-BCC	2	7.20E-05 (240.0)	6.49E-07 (168.0)	0.00E+00	3.79E-06
1EAP270-DVC-LFC	2	9.60E-05 (222.5)	6.49E-07 (173.5)	0.00E+00	3.03E-06
1EAP271-DVC-LFC	2	9.60E-05 (222.5)	6.49E-07 (173.5)	0.00E+00	3.03E-06
RHRF318X-CXC-LF	2	1.00E-04 (218.0)	6.49E-07 (173.5)	0.00E+00	3.03E-06
RHRF31AX-CXC-LF	2	1.00E-04 (218.0)	6.49E-07 (173.5)	0.00E+00	3.03E-06
C20GF002-CXC-LF	2	1.00E-04 (218.0)	6.49E-07 (173.5)	0.00E+00	3.03E-06
C00G002-CXC-LF	2	1.00E-04 (218.0)	6.49E-07 (173.5)	0.00E+00	3.03E-06
RHRF96AX-XCC-LF	2	1.10E-04 (209.0)	6.49E-07 (178.5)	0.00E+00	3.03E-06
RHRF47AA-VCC-LF	2	1.10E-04 (209.0)	6.49E-07 (178.5)	0.00E+00	3.03E-06
RHRF04AA-VCC-LF	2	1.10E-04 (209.0)	6.49E-07 (178.5)	0.00E+00	3.03E-06
RHRF03AA-VCC-LF	2	1.10E-04 (209.0)	6.49E-07 (178.5)	0.00E+00	3.03E-06
DAVH00COM-CC-UUM	2	1.50E-04 (202.5)	6.49E-07 (181.5)	0.00E+00	3.03E-06
D0VM00COM-CC-UUM	2	1.50E-04 (202.5)	6.49E-07 (181.5)	0.00E+00	3.03E-06
AP040X2CP7-LF00	2	3.00E-04 (177.5)	6.49E-07 (184.0)	0.00E+00	3.03E-06
AP039X2CP4-LF00	2	3.00E-04 (177.5)	6.49E-07 (184.0)	0.00E+00	3.03E-06
1EK18ABC06-LF00	2	3.00E-04 (177.5)	6.49E-07 (184.0)	0.00E+00	3.03E-06
RA-7-1-27H	1	2.10E-03 ( 90.5)	5.93E-07 (186.0)	0.00E+00	2.68E-06
LAK98RCB-R00-LFO	16	2.00E-02 ( 29.0)	4.78E-07 (187.5)	0.00E+00	2.94E-06
LAK188RB-R00-LFO	16	2.00E-02 ( 29.0)	4.78E-07 (187.5)	0.00E+00	2.94E-06
2C11F001B-R00-LF	11	1.20E-03 ( 98.0)	4.19E-07 (189.0)	0.00E+00	2.92E-06
1E82Y4X-BCC	1	7.20E-05 (240.0)	4.16E-07 (190.0)	0.00E+00	2.50E-06
LAS44BX-QC0-LFO	1	1.10E-04 (209.0)	4.16E-07 (191.0)	0.00E+00	2.50E-06
LAK38RCWCP1-LF00	1	6.60E-04 (118.0)	4.16E-07 (193.0)	0.00E+00	2.50E-06
LAK288XCP4-LF00	1	6.60E-04 (118.0)	4.16E-07 (193.0)	0.00E+00	2.50E-06
AP040X4CPT1-LF00	1	6.60E-04 (118.0)	4.16E-07 (193.0)	0.00E+00	2.50E-06
LAK98CP3-LF00	1	2.90E-03 ( 68.0)	4.15E-07 (195.5)	0.00E+00	2.50E-06
LAK188CP1-LF00	1	2.90E-03 ( 68.0)	4.15E-07 (195.5)	0.00E+00	2.50E-06
PHRC003B-P-UUM	1	3.40E-03 ( 54.0)	4.14E-07 (198.0)	0.00E+00	2.49E-06
LAK38RCB-R00-LFO	1	3.40E-03 ( 54.0)	4.14E-07 (198.0)	0.00E+00	2.49E-06
2C11C0016-P-UUM	12	3.00E-03 ( 54.0)	3.70E-07 (199.0)	0.00E+00	2.71E-06
LAK928RC-R00-LFO	15	2.00E-02 ( 29.0)	3.63E-07 (200.0)	0.00E+00	2.18E-06
2C11C0018-B00-CC	11	2.50E-03 ( 76.0)	3.62E-07 (201.0)	0.00E+00	2.71E-06

2C11C001B-PWS-LF	10	1.10E-03 (102.0)	3.55E-07 (202.0)	0.00E+00	2.51E-06
LAK14BFC-RCO-LFO	9	2.00E-02 ( 29.0)	3.24E-07 (203.0)	0.00E+00	1.30E-06
CSCB068X-BOO-LF	1	8.40E-05 (226.0)	3.17E-07 (204.0)	0.00E+00	1.15E-06
RHFC003B-RUM-1	1	3.30E-04 (154.0)	3.17E-07 (205.0)	0.00E+00	1.15E-06
RHFA488B-VOC-CC	1	2.50E-03 ( 76.0)	3.16E-07 (206.5)	0.00E+00	1.14E-06
CSCF068B-VCC-CC	1	2.50E-03 ( 76.0)	3.16E-07 ( 76.5)	0.00E+00	1.14E-06
LAK958CP3-LFCC	1	2.90E-03 ( 60.0)	3.16E-07 (208.0)	0.00E+00	1.12E-06
TEDC2DEP-FRP-27H	8	3.20E-03 ( 48.5)	2.77E-07 (209.0)	0.00E+00	2.01E-06
2C11C001B-BOO-LF	6	5.00E-04 (141.0)	2.66E-07 (210.0)	0.00E+00	1.85E-06
RA-9-27H	484	4.00E-01 ( 13.0)	2.50E-07 (211.0)	0.00E+00	1.59E-06
LPCI-PWS-CH	8	2.50E-03 ( 76.0)	2.24E-07 (212.0)	0.00E+00	1.17E-06
COMT-LEAK	1343	7.53E-01 ( 12.0)	1.86E-07 (213.0)	0.00E+00	0.00E+00
RA-1-3-27H	11	2.60E-03 ( 76.0)	1.68E-07 (214.0)	0.00E+00	7.35E-07
PSW01FBX-STX-LF	5	7.20E-04 (111.5)	1.26E-07 (215.5)	0.00E+00	5.05E-07
2C11C001A-PWS-LF	4	7.20E-04 (111.5)	1.26E-07 (215.5)	0.00E+00	6.88E-07
EE-WDP-PSM-BC-R	86	3.30E-01 ( 14.0)	1.15E-07 (217.0)	0.00E+00	5.47E-07
DWB202N-BCO-LF	19	2.00E-02 ( 29.0)	8.62E-08 (218.0)	0.00E+00	1.89E-07
DWB201X-RCO-LF	19	2.00E-02 ( 29.0)	7.63E-08 (219.0)	0.00E+00	3.63E-07
DWB101X-BCO-LF	3	7.20E-04 (111.5)	7.55E-08 (220.5)	0.00E+00	3.04E-07
LPCI-MOV-DMZ	5	2.50E-03 ( 76.0)	7.55E-08 (220.5)	0.00E+00	2.28E-07
LPCI-MOV-CHT	5	2.50E-03 ( 76.0)	7.43E-08 (223.0)	0.00E+00	1.85E-07
ZWR02MB-STR-LF	2	7.20E-04 (111.5)	7.43E-08 (223.0)	0.00E+00	1.85E-07
ZWR01PB-PMS-FR	2	7.20E-04 (111.5)	5.13E-08 (225.5)	0.00E+00	2.02E-07
DG0MCD-RUM-0	2	1.40E-03 ( 95.5)	5.04E-08 (227.5)	0.00E+00	2.03E-07
OPFAIL-VENT-2H	2	2.10E-03 ( 90.5)	2.94E-08 (229.0)	0.00E+00	5.84E-08
RA-MSLDV-1-2H	9	2.10E-03 ( 90.5)	2.13E-08 (230.0)	0.00E+00	1.11E-07
AP037X3-ROO-LFO	2	2.00E-02 ( 29.0)	2.04E-08 (231.0)	0.00E+00	7.90E-08
AP040X3-ROO-LFO	8	2.00E-02 ( 29.0)	1.66E-08 (232.0)	0.00E+00	3.36E-08
LAK2ARCA-ROO-LFO	10	2.00E-02 ( 29.0)	1.43E-08 (233.0)	0.00E+00	3.41E-08
LAK18ARA-ROO-LFO	10	2.00E-02 ( 29.0)	1.40E-08 (235.0)	0.00E+00	9.24E-08
LAK10RCA-ROO-LFO	10	2.00E-02 ( 29.0)	1.40E-08 (235.0)	0.00E+00	9.24E-08
LAK93ARC-ROO-LFO	6	2.00E-02 ( 29.0)	8.71E-09 (237.5)	0.00E+00	2.12E-08
LAK14ARC-RCO-LFO	6	2.00E-02 ( 29.0)	8.71E-09 (237.5)	0.00E+00	2.12E-08
LPCI-MOV-BETA	10	3.00E-02 ( 17.0)	8.31E-09 (239.0)	0.00E+00	1.69E-08
LAK708RB-ROO-LFO	1	2.00E-02 ( 29.0)	8.15E-09 (240.5)	0.00E+00	3.23E-08
LAK2BRCB-RCO-LFO	1	2.00E-02 ( 29.0)	8.15E-09 (240.5)	0.00E+00	3.23E-08
LPCI-BETA	8	1.10E-01 ( 16.0)	4.55E-09 (242.0)	0.00E+00	1.46E-08
SCSF068B-DEFNER	33	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
SCSF06AA-GENER	42	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
RA-NONE	216	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
NOFLOW-SPC-B5X	9	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
NOFLOW-SPC-A5X	6	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
NOFLOW-RHR-B1	7	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
NOFLOW-RHR-A1	7	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
NOFLOW-CSS-B7A	9	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
NOFLOW-CSS-A7A	6	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
FLOW-RHR-B3	29	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00
FLOW-RHR-A3	22	1.00E+00 ( 6.0)	0.00E+00 (248.0)	0.00E+00	0.00E+00

SEQUENCE 122  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	T.05/TE.05*	T.95/TE.95*
SUR-002-L	1343	1.60E-01	( 15.0)	76.6	( 1.0)	NA	0.56
CON1-LEAK	1343	7.50E-01	( 12.0)	7.7	( 2.0)	NA	0.75
COG001F-S-UJM	6	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
C2D001F-S-UJM	4	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
RHR01AX-H-UJM	5	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
RHR01BX-H-UJM	4	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
SEY03AX-A-UJM	4	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
CSCD300B-S-UJM	4	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
NWLYG1AX-A-UJM	5	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
CSCD300A-S-UJM	5	3.00E-04	(177.5)	6.1	( 6.5)	NA	0.99
2C11F001B-BCO-LF	11	1.20E-03	( 98.0)	4.2	( 11.0)	NA	1.00
DAYM00COM-CC-UJM	2	1.50E-04	(202.5)	3.9	( 12.5)	NA	1.00
C0VM00COM-CC-UJM	2	1.50E-04	(202.5)	3.9	( 12.5)	NA	1.00
2MR02MB-STR-LF	26	7.20E-04	(111.5)	3.8	( 17.0)	NA	0.99
EE-C0D001F-PLC	26	7.20E-04	(111.5)	3.8	( 17.0)	NA	0.99
EE-C2D001F-PLC	26	7.20E-04	(111.5)	3.8	( 17.0)	NA	0.99
2MR02MA-STR-LF	3	7.20E-04	(111.5)	3.8	( 17.0)	NA	0.99
EE-CSCD300A-PLG	20	7.20E-04	(111.5)	3.8	( 17.0)	NA	0.99
EE-CSCD300B-PLG	16	7.20E-04	(111.5)	3.8	( 17.0)	NA	0.99
PSW01FBX-STX-LF	5	7.20E-04	(111.5)	3.8	( 17.0)	NA	0.99
D0VB201X-BCO-LF	19	2.00E-02	( 29.0)	3.5	( 22.5)	NA	1.00
D0VB101X-BCO-LF	19	2.00E-02	( 29.0)	3.5	( 22.5)	NA	1.00
D0VB102X-BCO-LF	21	2.00E-02	( 29.0)	3.5	( 22.5)	NA	1.00
D0VB202X-BCO-LF	19	2.00E-02	( 29.0)	3.5	( 22.5)	NA	1.00
SEVY03AX-ACX-LF1	9	8.40E-04	(105.5)	3.4	( 25.5)	NA	1.00
NWVY01AX-ACX-LF1	11	8.40E-04	(105.5)	3.4	( 25.5)	NA	1.00
CSCB068X-BCO-LF	1	8.40E-05	(226.0)	3.3	( 29.0)	NA	1.00
1E816212-BCO	10	8.40E-05	(226.0)	3.3	( 29.0)	NA	1.00
CCB000P-BCO-LF	5	8.40E-05	(226.0)	3.3	( 29.0)	NA	1.00
CCB2001P-BCO-LF	4	8.40E-05	(226.0)	3.3	( 29.0)	NA	1.00
1E816211-800	7	8.50E-05	(226.0)	3.3	( 29.0)	NA	1.00
RA-B-27H	994	3.20E-03	( 48.5)	3.3	( 29.0)	NA	1.00
1EDC20EP-FRP-27H	8	3.20E-03	( 48.5)	3.3	( 29.0)	NA	1.08
1E42YB-V-UJM	22	1.00E-04	(218.0)	3.3	( 32.5)	NA	1.08
1E8236B-B-UJM	2	1.00E-04	(218.0)	3.3	( 35.0)	NA	1.01
1E41YA-V-UJM	36	1.00E-04	(218.0)	3.3	( 35.0)	NA	1.01
1E836X3X-BCO-LF	2	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88
1E8212YK-BCO-LF	3	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88
1E82Y4K-BCO	1	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88
NWV8001X-BCO-LF	4	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.85
SEV8001X-BCO-LF	3	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88
1E836YB-BCO-LF	9	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88
1E8235YA-BCO-LF	4	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88
DAVB002X-BCO-LF	2	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88
1E835Y2X-BCO-LF	4	7.20E-05	(240.0)	3.2	( 47.0)	NA	0.88

1EB36Y1X-BCO-LF	9	7.20E-05 (240.0)	( 47.0)	NA	0.88
36X2803X-BCO-LF	2	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB1Y13X-BCO	4	7.20E-05 (240.0)	( 47.0)	NA	0.88
DAVB001X-BCO-LF	2	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB2Y22X-BCO	7	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB2Y14X-BCO	2	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB2368-BCO-LF	47	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB235A-BCO-LF	9	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB36XB-BCO-LF	10	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB1Y22X-BCO	5	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB211YX-BCO-LF	5	7.20E-05 (240.0)	( 47.0)	NA	0.88
1EB235XA-BCO-LF	5	7.20E-05 (240.0)	( 47.0)	NA	0.88
RHRH018X-HTX-LFB	23	6.20E-03 ( 41.5)	( 58.5)	NA	1.01
RHRH018X-HTX-LFB	26	6.20E-03 ( 41.5)	( 58.5)	NA	1.01
1EAP271-DVC-LFC	2	9.60E-05 (222.5)	( 60.5)	NA	1.00
1EAP270-DVC-LFC	2	9.60E-05 (222.5)	( 60.5)	NA	1.00
0G2A-GEN-LF-FTS	92	2.50E-02 ( 18.5)	( 62.5)	NA	0.99
0G0-GEN-LF-FTS	99	2.50E-02 ( 18.5)	( 62.5)	NA	0.99
CSYD300B-PLG-LF	30	1.20E-03 ( 98.0)	( 64.5)	NA	1.00
CSGD300A-PLG-LF	37	1.20E-03 ( 98.0)	( 64.5)	NA	1.00
RLOSP	73	2.10E-04 (201.0)	( 66.0)	NA	1.01
LAS448X-GCO-LFO	1	1.10E-04 (209.0)	( 67.0)	NA	1.00
LAK9ARCA-ROO-LFO	10	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK938RC-ROO-LFO	13	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK18ARA-ROO-LFO	10	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
AP037X3-ROO-LFO	9	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK14ARL-ROO-LFO	6	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK708RB-ROO-LFO	1	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
AP040X3-ROO-LFO	8	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK98RB-ROO-LFO	16	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK93ARC-ROO-LFO	6	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK28RCB-ROO-LFO	1	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK188RB-ROO-LFO	16	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
APG39X2-ROG-LFO	82	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK108CA-ROO-LFO	10	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
LAK148RC-ROO-LFO	9	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
AP040X2-ROO-LFO	82	2.00E-02 ( 29.0)	( 75.0)	NA	1.06
DG2V02FA-KLN-LFB	22	5.80E-04 (122.0)	( 84.5)	NA	1.00
DG0V01FX-KLN-LFB	23	5.80E-04 (122.0)	( 84.5)	NA	1.00
CZ0G01F-PLG-LF	25	5.80E-04 (122.0)	( 84.5)	NA	1.00
C00G01F-PLG-LF	75	5.80E-04 (122.0)	( 84.5)	NA	1.00
LAK38RCXCP1-LFCO	1	6.60E-04 (118.0)	( 88.0)	NA	1.00
LAK288XCP4-LFCO	1	6.60E-04 (118.0)	( 88.0)	NA	1.00
AP040X4CPT1-LFCO	1	6.60E-04 (118.0)	( 88.0)	NA	1.00
2C11C001A-PMS-LF	4	7.20E-04 (111.5)	( 91.0)	NA	1.00
2WR01PA-PMS-FR	3	7.20E-04 (111.5)	( 91.0)	NA	1.00
2WR01PB-PMS-FR	2	7.20E-04 (111.5)	( 91.0)	NA	1.00
RA-1-3-27N	11	2.60E-03 ( 64.0)	( 93.0)	NA	1.00
1EBAT28X-ZBT-LF	7	2.40E-05 (252.5)	( 94.5)	NA	1.00
1EBAT24X-ZBT-LF	8	2.40E-05 (252.5)	( 94.5)	NA	1.00
2C11C001B-PMS-LF	10	1.10E-03 (102.0)	( 98.0)	NA	1.01
RHR020AA-PMS-LF	18	1.10E-03 (102.0)	( 98.0)	NA	1.01



RHRC02BB-PMS-LF	16	1.10E-03	(102.0)	1.6	( 98.0)	NA	1.01
C2D001P-PMS-LF	25	1.10E-03	(102.0)	1.6	( 98.0)	NA	1.01
C00001P-PMS-LF	26	1.10E-03	(102.0)	1.6	( 98.0)	NA	1.01
SCSF06BB-V-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
SCSF06AA-V-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF88AX-R-UUM	6	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF77AA-V-UUM	6	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF44AA-V-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF65AA-N-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF64AA-V-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF55AX-R-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
CSCF00BA-V-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF48AA-V-UUM	6	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF47BB-V-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF48BB-V-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
CSCF06BB-V-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF47AA-V-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF55BX-R-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF51BB-N-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF60BB-S-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF64BB-V-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF60AA-S-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF51AA-N-UUM	6	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF74BB-V-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF87BB-V-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF65BB-N-UUM	5	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
RHRF88BX-R-UUM	4	3.00E-04	(177.5)	1.5	(112.5)	NA	1.01
DG0V01CA-RUM-0	16	1.40E-03	( 95.5)	1.3	(125.5)	NA	1.00
DG0M00-RUM-0	2	1.40E-03	( 95.5)	1.3	(125.5)	NA	1.00
DG0V02YA-M-UUM	5	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
DG0V01YA-M-UUM	5	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
DG0V01CA-F-UUM	5	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
NWVY01CA-F-UUM	6	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
DG2V03CB-F-UUM	3	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
SEVY03CB-F-UUM	5	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
DG0V03YA-M-UUM	5	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
DG2V11YB-M-UUM	3	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
DG2V10YR-M-UUM	3	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
DG2V09YR-M-UUM	3	5.00E-04	(141.0)	1.3	(131.5)	NA	1.00
RHRC003B-RUM-1	1	3.30E-04	(154.0)	1.3	(137.0)	NA	1.00
RHRC02BB-P-NDUUM	14	3.00E-03	( 54.0)	1.2	(140.0)	NA	0.99
RHRC02AA-P-NDUUM	15	3.00E-03	( 54.0)	1.2	(140.0)	NA	0.99
2C11C001B-P-UUM	12	3.00E-03	( 54.0)	1.2	(140.0)	NA	0.99
C2D001P-P-UUM	16	3.00E-03	( 54.0)	1.2	(140.0)	NA	0.99
C0D001P-P-UUM	17	3.00E-03	( 54.0)	1.2	(140.0)	NA	0.99
DG2A-GEN-CC-FTS	35	3.70E-03	( 45.5)	1.2	(143.5)	NA	0.99
DG0-GEN-CC-FTS	36	3.70E-03	( 45.5)	1.2	(143.5)	NA	0.99
LPC1-MOV-BETA	10	3.00E-02	( 17.0)	1.1	(145.0)	NA	1.00
DG2V03CB-FMS-LF	3	5.40E-04	(126.5)	1.0	(147.5)	NA	1.00
SEVY03CB-FMS-LF	5	5.40E-04	(126.5)	1.0	(147.5)	NA	1.00
DG0V01CA-FMS-LF	5	5.40E-04	(126.5)	1.0	(147.5)	NA	1.00
NWVY01CA-FMS-LF	6	5.40E-04	(126.5)	1.0	(147.5)	NA	1.00

1.70  
1.00  
1.00

NA  
NA  
NA

Code	Quantity	Unit Price	Total Price	Unit Price
LAK98CP3-LF00	1	2.90E-03	( 60.0)	0.9
LAK98CP3-LF00	1	2.90E-03	( 60.0)	0.9
LAK188CP1-LF00	1	2.90E-03	( 60.0)	0.9
DG2V03CB-FMS-CC	12	2.50E-03	( 76.0)	0.0
SEVY03CB-FMS-CC	13	2.50E-03	( 76.0)	0.0
APG-0X2CP7-LF00	2	3.00E-04	(177.5)	0.0
1EB413A-800-LF	12	5.00E-04	(141.0)	0.0
DG2A-GEN-LF-FTR	92	1.90E-02	( 39.5)	0.0
AP039X2CP4-LF00	2	3.00E-04	(177.5)	0.0
Du2A-GEN-CC-FTR	33	2.80E-03	( 62.5)	0.0
1EB413A-800-CC	12	2.50E-03	( 76.0)	0.0
DG2A-G-UUM	41	5.00E-03	( 43.5)	0.0
RHRFUP1X-FUS-L	1	7.20E-05	(240.0)	0.0
DG0V03YA-MCC-LF	7	3.00E-04	(177.5)	0.0
RHRF98AX-XOC-LF	2	1.10E-04	(209.0)	0.0
DG0V03YA-MCO-LF	7	3.00E-04	(177.5)	0.0
1EB412A-BCC-LF	12	5.00E-04	(141.0)	0.0
DG0V01YA-MCC-LF	7	3.00E-04	(177.5)	0.0
1EB412A-BCC-CC	12	2.50E-03	( 76.0)	0.0
1EB234B-BCC-LF	12	5.00E-04	(141.0)	0.0
DG0V01CA-FMS-CC	12	2.50E-03	( 76.0)	0.0
RHRF488B-V00-LF	9	5.00E-04	(141.0)	0.0
RHRF488B-V00-CC	1	2.50E-03	( 76.0)	0.0
RHRF48AA-V00-LF	10	5.00E-04	(141.0)	0.0
RHRF478B-VOC-LF	3	1.10E-04	(209.0)	0.0
DG0-GEN-LF-FTR	69	1.90E-02	( 39.5)	0.0
RHRF318X-CCC-LF	2	1.00E-04	(218.0)	0.0
ZDG1PK18-R0C-LFD	6	5.00E-04	(141.0)	0.0
1EB234B-BCC-CC	12	2.50E-03	( 76.0)	0.0
DG0-GEN-CC-FTR	36	2.80E-03	( 62.5)	0.0
DG0-G-UUM	41	6.00E-03	( 43.5)	0.0
ZDG01PSC-000-LFO	4	3.00E-04	(177.5)	0.0
RHRF03AA-VOC-LF	2	1.10E-04	(209.0)	0.0
RHR0228-P-UUM	20	3.00E-03	( 54.0)	0.0
ZDG01PK18CA-LF00	4	3.00E-04	(177.5)	0.0
RHR02AA-P-UUM	26	3.00E-03	( 54.0)	0.0
DAV-M00-COM-CC	12	2.50E-03	( 76.0)	0.0
RHR0036-P-UUM	1	3.00E-03	( 54.0)	0.0
RHR0188-800-LF	10	5.00E-04	(141.0)	0.0
RHR0188-800-CC	14	2.50E-03	( 76.0)	0.0
RHR01AA-800-LF	10	5.00E-04	(141.0)	0.0
1EB233A-BCC-LF	12	5.00E-04	(141.0)	0.0
RHR01AA-800-CC	15	2.50E-03	( 76.0)	0.0
RHR3018X-STR	4	1.10E-04	(209.0)	0.0
RHR301AX-STR	5	1.10E-04	(209.0)	0.0
RA-MSLDV-1-2H	2	2.10E-03	( 90.5)	0.0
RA-9-27H	484	4.60E-01	( 13.0)	0.0
RA-7-1-27H	1	2.10E-03	( 90.5)	0.0
D0V-M00-COM-CC	12	2.50E-03	( 76.0)	0.0
ZC11C0018-800-LF	6	5.00E-04	(141.0)	0.0
1EB233A-BCC-AS	12	2.50E-03	( 76.0)	0.0
RA-2-11-27H	35	1.60E-03	( 94.0)	0.6



SEQUENCE 122

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT DFDSA1-1-SEGZA WITH TOP EVENT FREQUENCY 5.57E-07

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	2	5	4.32E-08	0.07757	1EB212YK-BCD-LF	* CONT-LEAK	* IE-T101	* RA-NONE	*
3	3	5	4.32E-08	0.15515	SUR-002-L	* CONT-LEAK	* IE-T102	* RA-NONE	*
4	3	5	4.32E-08	0.15515	1EB211YK-BCD-LF	* CONT-LEAK	* IE-T102	* RA-NONE	*
5	1	5	4.32E-08	0.23272	SUR-002-L	* CONT-LEAK	* IE-T101	* RA-NONE	*
6	1	5	4.32E-08	0.23272	1EB1Y22X-BCD	* CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	*
7	4	5	4.32E-08	0.31029	SUR-002-L	* CONT-LEAK	* SUR-002-L	* LAK9BRCB-ROO-LFO	*
8	4	5	4.32E-08	0.31029	1EB2Y22X-BCD	* CONT-LEAK	* IE-T101	* LAK1BRRB-ROO-LFO	*
9	5	7	9.22E-09	0.32684	SUR-002-L	* DG0-GEN-LF-FTS	* DG0-GEN-LF-FTS	* IE-LOSP	*
10	5	7	9.22E-09	0.32684	CONT-LEAK	* RA-9-27H	* SUR-002-L	* IE-LOSP	*
11	7	6	8.32E-09	0.34178	RA-8-27H	* EE-MOP-PSW-BC-R	* IE-T101	* LAK9BRCB-ROO-LFO	*
12	7	6	8.32E-09	0.34178	CONT-LEAK	* SUR-002-L	* IE-T101	* LAK1BRRB-ROO-LFO	*
13	6	6	8.32E-09	0.35671	RA-1-1-27H	* EE-MOP-PSW-BC-R	* IE-T101	* LAK1BRRB-ROO-LFO	*
14	6	6	8.32E-09	0.35671	CONT-LEAK	* SUR-002-L	* DG0-GEN-LF-FTS	* IE-LOSP	*
15	9	7	7.37E-09	0.36995	AP039X2-ROO-LFO	* CONT-LEAK	* DG0-GEN-LF-FTS	* IE-LOSP	*
16	8	7	7.37E-09	0.38319	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP	*
17	8	7	7.37E-09	0.38319	AP040X2-ROO-LFO	* CONT-LEAK	* DG0-GEN-LF-FTS	* IE-LOSP	*
18	8	7	7.37E-09	0.38319	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP	*
19	10	7	7.00E-09	0.39576	CONT-LEAK	* DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
20	10	7	7.00E-09	0.39576	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP	*
21	11	7	7.00E-09	0.40834	CONT-LEAK	* DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* IE-LOSP	*
22	11	7	7.00E-09	0.40834	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-T101	*
23	12	7	6.34E-09	0.41972	CONT-LEAK	* EE-MOP-PSW-BC-R	* FLOW-RHR-83	* IE-T101	*
24	12	7	6.34E-09	0.41972	RA-8-27H	* RA-2-11-27H	* SUR-002-L	* LAK149RC-ROO-LFO	*
25	13	8	6.34E-09	0.43110	LAK938RC-ROO-LFO	* EE-MOP-PSW-BC-R	* IE-T101	* SUR-042-L	*
26	13	8	6.34E-09	0.43110	CONT-LEAK	* NOFLOW-SPC-85X	* RA-2-11-27H	* SUR-042-L	*
27	15	7	5.60E-09	0.44115	NOFLOW-CSS-87A	* CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	*
28	15	7	5.60E-09	0.44115	AP040X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* IE-LOSP	*
29	14	7	5.60E-09	0.45122	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP	*
30	14	7	5.60E-09	0.45122	AP039X2-ROO-LFO	* CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	*
31	14	7	5.60E-09	0.45122	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP	*
32	15	7	5.32E-09	0.46078	CONT-LEAK	* DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* RA-8-27H	*
33	15	7	5.32E-09	0.46078	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H	*
34	18	6	4.57E-09	0.46899	AP039X2-ROO-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
35	17	6	4.57E-09	0.47720	RHR01AX-HTX-LFB	* SUR-002-L	* IE-LOSP	* RA-8-27H	*
36	17	6	4.57E-09	0.47720	AP040X2-ROO-LFO	* CONT-LEAK	* DG0-6-UUM	* IE-LOSP	*
37	19	6	4.42E-09	0.48514	RHR01AX-HTX-LFB	* SUR-002-L	* DG0-6-UUM	* IE-LOSP	*
38	19	6	4.42E-09	0.48514	AP040X2-ROO-LFO	* CONT-LEAK	* DG0-6-UUM	* IE-LOSP	*
39	20	6	4.42E-09	0.49308	RA-8-27H	* SUR-002-L	* IE-T101	* RA-1-1-27H	*
40	20	6	4.42E-09	0.49308	AP039X2-ROO-LFO	* CONT-LEAK	* IE-T101	* RA-1-1-27H	*
41	21	6	2.58E-09	0.49771	RA-8-27H	* EE-MOP-PSW-BC-R	* IE-T101	* RA-1-1-27H	*
42	21	6	2.58E-09	0.49771	CONT-LEAK	* SUR-002-L	* IE-LOSP	* RA-8-27H	*
43	23	7	2.29E-09	0.50182	RHR01BX-HTX-LFB	* DG0-GEN-LF-FTS	* SUR-002-L	* RA-8-27H	*
44	23	7	2.29E-09	0.50182	CONT-LEAK	* RHR01BX-HTX-LFB	* SUR-002-L	* RA-8-27H	*
45	23	7	2.29E-09	0.50182	RA-9-27H	* RHR01BX-HTX-LFB	* SUR-002-L	* RA-8-27H	*

46	22	7	2.29E-09	0.50592	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP	RA-B-27H	*
47					RA-9-27H	RHR01AX-HIX-LFB	SUR-002-L		*
48	25	6	2.21E-09	0.50987	AP039X2-R00-LFO	CONT-LEAK	1E-LOSP	LCSC002A-P-UUM	*
49					RA-8-27H	SUR-002-L			*
50	26	6	2.21E-09	0.51386	AP040X2-R00-LFO	CONT-LEAK	1E-LOSP	LCSC002A-P-UUM	*
51					RA-8-27H	SUR-002-L			*
52	24	6	2.21E-09	0.51784	AP039X2-R00-LFO	COC001P-P-UUM	CONT-LEAK		*
53					RA-8-27H	SUR-002-L			*
54	27	6	2.21E-09	0.52181	AP040X2-R00-LFO	COC001P-P-UUM	CONT-LEAK		*
55					RA-8-27H	SUR-002-L			*
56	30	6	2.21E-09	0.52578	AP039X2-R00-LFO	SUR-002-L	1E-LOSP		*
57					RHR02AA-P-NDUUM	CONT-LEAK			*
58	31	7	2.21E-09	0.52975	CONT-LEAK	DG0-GEN-LF-FTS	DG2A-G-UUM		*
59					RA-8-27H	RA-9-27H	SUR-002-L		*
60	29	7	2.21E-09	0.53372	AP040X2-R00-LFO	CONT-LEAK	1E-LOSP		*
61					RHR02AA-P-UUM	SCSF06AA-DENER	RA-8-27H		*
62	28	6	2.21E-09	0.53769	AP040X2-R00-LFO	CONT-LEAK	SUR-002-L		*
63					RHR02AA-P-NDUUM	SUR-002-L	1E-LOSP		*
64	33	7	2.21E-09	0.54167	CONT-LEAK	DG0-G-UUM			*
65					RA-8-27H	RA-9-27H	DG2A-GEN-LF-FTS		*
66	32	7	2.21E-09	0.54564	AP039X2-R00-LFO	CONT-LEAK	SUR-002-L		*
67					RHR02AA-P-UUM	SCSF06AA-DENER	1E-LOSP		*
68	40	6	1.84E-09	0.54895	1EB233A-BCC-AS	AP039X2-R00-LFO	SUR-002-L		*
69					RA-8-27H	SUR-002-L	CONT-LEAK		*
70	47	6	1.84E-09	0.55226	AP039X2-R00-LFO	CONT-LEAK	DG0V01CA-FMS-CC		*
71					RA-8-27H	SUR-002-L	1E-LOSP		*
72	46	6	1.84E-09	0.55557	AP040X2-R00-LFO	CONT-LEAK	1E-LOSP		*
73					RHR01AA-B00-CC	SUR-002-L			*
74	48	6	1.84E-09	0.55888	AP039X2-R00-LFO	SUR-002-L	1E-LOSP		*
75					RHR01AA-B00-CC	SUR-002-L			*
76	36	6	1.84E-09	0.56219	1EB412A-BCC-CC	AP039X2-R00-LFO	CONT-LEAK		*
77					RA-8-27H	SUR-002-L			*
78	49	6	1.84E-09	0.56550	1EB413A-B00-CC	AP039X2-R00-LFO	CONT-LEAK		*
79					RA-8-27H	SUR-002-L			*
80	43	6	1.84E-09	0.56881	AP039X2-R00-LFO	COC001P-FMS-CC	CONT-LEAK		*
81					RA-8-27H	SUR-002-L			*
82	39	6	1.84E-09	0.57212	AP039X2-R00-LFO	CONT-LEAK	1E-LOSP		*
83					RA-8-27H	SUR-002-L			*
84	45	6	1.84E-09	0.57543	AP040X2-R00-LFO	SUR-002-L	1E-LOSP		*
85					RA-8-27H	SUR-002-L			*
86	42	6	1.84E-09	0.57874	1EB233A-BCC-AS	AP040X2-R00-LFO	CONT-LEAK		*
87					RA-8-27H	SUR-002-L			*
88	41	6	1.84E-09	0.58205	AP040X2-R00-LFO	CONT-LEAK	DG0V01CA-FMS-CC		*
89					RA-8-27H	SUR-002-L			*
90	44	6	1.84E-09	0.58536	AP040X2-R00-LFO	SUR-002-L	1E-LOSP		*
91					RA-8-27H	SUR-002-L			*
92	38	6	1.84E-09	0.58867	AP040X2-R00-LFO	COC001P-FMS-CC	CONT-LEAK		*
93					RA-8-27H	SUR-002-L			*
94	35	6	1.84E-09	0.59198	1EB413A-B00-CC	AP040X2-R00-LFO	CONT-LEAK		*
95					RA-8-27H	SUR-002-L			*
96	37	6	1.84E-09	0.59528	AP039X2-R00-LFO	CONT-LEAK	DG0V01CA-FMS-CC		*
97					RA-8-27H	SUR-002-L			*

98	34	6	1.84E-09	0.59859	1E8A12A-BCC-CC	AP04DX2-R00-LFO	CONT-LEAK	IE-LOSP	*
99					RA-8-27H	SUR-002-L	IE-LOSP	RA-8-27H	*
100	51	7	1.74E-09	0.60171	CONT-LEAK	DG2A-GEN-LF-FTR	IE-LOSP	RA-8-27H	*
101					RA-9-27H	RHR018X-HTX-LFB	SUR-002-L		*
102	50	7	1.74E-09	0.60483	CONT-LEAK	DG0-GEN-LF-FTR	IE-LOSP	RA-8-27H	*
103					RA-9-27H	RHR018X-HTX-LFB	SUR-002-L		*
104	53	7	1.68E-09	0.60785	CONT-LEAK	DG0-GEN-LF-FTR	DG2A-G-UUM	IE-LOSP	*
105					RA-8-27H	RA-9-27H	SUR-002-L	IE-LOSP	*
106	52	7	1.68E-09	0.61087	CONT-LEAK	DG0-G-UUM	DG2A-GEN-LF-FTR	IE-LOSP	*
107					RA-8-27H	RA-9-27H	SUR-002-L		*
108	54	6	1.41E-09	0.61341	CONT-LEAK	EE-MOP-PSM-BC-R	IE-1101	LAK38RCB-R00-LFO	*
109					RA-1-1-27H	SUR-002-L	IE-LOSP	RA-8-27H	*
110	55	6	1.37E-09	0.61587	CONT-LEAK	DG0-G-UUM	IE-LOSP	RA-8-27H	*
111					CONT-LEAK	SUR-002-L	IE-LOSP	RA-8-27H	*
112	56	6	1.37E-09	0.61833	CONT-LEAK	DG2A-S-UUM	IE-LOSP	RA-8-27H	*
113					RHR018X-HTX-LFB	SUR-002-L	DG2A-GEN-CC-FTS	IE-LOSP	*
114	57	7	1.36E-09	0.62076	CONT-LEAK	DG0-GEN-LF-FTS	SUR-002-L	IE-LOSP	*
115					RA-8-27H	RA-9-27H	DG2A-GEN-LF-FTS	IE-LOSP	*
116	58	7	1.36E-09	0.62323	CONT-LEAK	DG0-GEN-CC-FTS	SUR-002-L	IE-LOSP	*
117					RA-8-27H	RA-9-27H	DG2A-G-UUM	IE-LOSP	*
118	59	6	1.33E-09	0.62562	CONT-LEAK	DG0-G-UUM	IE-LOSP	IE-LOSP	*
119					RA-8-27H	SUR-002-L	EE-MOP-PSM-BC-R	IE-1101	*
120	63	6	1.25E-09	0.62786	C2DGC1P-P-UUM	CONT-LEAK	IE-1101	RA-7-1-27H	*
121					RA-1-1-27H	SUR-002-L	IE-1101	RA-1-1-27H	*
122	62	6	1.25E-09	0.63010	CONT-LEAK	EE-MOP-PSM-BC-R	IE-1101	RA-1-1-27H	*
123					RHR0036-P-UUM	SUR-002-L	IE-1101	RA-1-1-27H	*
124	60	7	1.25E-09	0.63234	CONT-LEAK	EE-MOP-PSM-BC-R	SUR-002-L	RA-1-1-27H	*
125					RHR0288-P-UUM	SCSF06BB-DENR	IE-1101	RA-1-1-27H	*
126	61	6	1.25E-09	0.63458	CONT-LEAK	EE-MOP-PSM-BC-R	IE-1101	LAK188CF1-LFO0	*
127					RHR0288-P-UUM	SUR-002-L	IE-1101	LAK98CP3-100	*
128	65	7	1.21E-09	0.63674	CONT-LEAK	EE-MOP-PSM-BC-R	IE-1101	RA-8-27H	*
129					RA-1-1-27H	SUR-002-L	IE-1101	RA-8-27H	*
130	64	6	1.21E-09	0.63891	CONT-LEAK	EE-MOP-PSM-BC-R	IE-LOSP	RA-8-27H	*
131					RA-1-1-27H	SUR-002-L	SCSF06AA-DENR	SUR-002-L	*
132	69	8	1.11E-09	0.64089	CONT-LEAK	DG2A-BEL-LF-FTS	IE-LOSP	RA-8-27H	*
133					RA-9-27H	RHR02AA-P-UUM	IE-LOSP	SUR-002-L	*
134	67	8	1.11E-09	0.64208	CONT-LEAK	DG0-GEN-LF-FTS	SCSF06BB-DENR	IE-LOSP	*
135					RA-9-27H	RHR0288-P-UUM	DG2A-GEN-LF-FTS	IE-LOSP	*
136	71	7	1.11E-09	0.64486	C0D01P-P-UUM	CONT-LEAK	SUR-002-L	RA-8-27H	*
137					RA-8-27H	RA-9-27H	IE-LOSP	RA-8-27H	*
138	68	7	1.11E-09	0.64685	CONT-LEAK	DG2A-GEN-LF-FTS	IE-LOSP	LCS002A-P-UUM	*
139					RA-9-27H	RHR02AA-P-UUM	IE-LOSP	IE-LOSP	*
140	66	7	1.11E-09	0.64884	CONT-LEAK	DG2A-GEN-LF-FTS	SUR-002-L	IE-LOSP	*
141					RA-8-27H	RA-9-27H	DG0-GEN-LF-FTS	RA-8-27H	*
142	70	7	1.11E-09	0.65082	C2D01P-P-UUM	CONT-LEAK	SUR-002-L	IE-LOSP	*
143					RA-8-27H	RA-9-27H	IE-LOSP	RA-8-27H	*
144	72	7	1.11E-09	0.65281	CONT-LEAK	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	IE-LOSP	*
145					RA-9-27H	RHR0288-P-UUM	SUR-002-L	IE-LOSP	*
146	73	7	1.09E-09	0.65477	AP039X2-R00-LFO	CONT-LEAK	DG0-GEN-CC-FTS	IE-LOSP	*
147					RA-8-27H	RA-9-27H	SUR-002-L	IE-LOSP	*
148	74	7	1.09E-09	0.65673	AP04DX2-R00-LFO	CNT-LEAK	DG0-GEN-CC-FTS	IE-LOSP	*
149					RA-8-27H	RA-9-27H	SUR-002-L	IE-LOSP	*

150	76	6	1.04E-09	0.65859	CONT-LEAK	EE-MDP-PJM-BC-R	1E-1101	RA-1-1-27H	*
151	77	6	1.04E-09	0.66046	SEVY03CB-FMS-CC	SUR-002-L	EE-MDP-PSM-BC-R	1E-1101	*
152	77	6	1.04E-09	0.66046	C2D001P-FMS-CC	CONT-LEAK	EE-MDP-PSM-BC-R	1E-1101	*
153	75	6	1.04E-09	0.66233	RA-1-1-27H	SUR-002-L	1E-1101	RA-1-1-27H	*
154	75	6	1.04E-09	0.66233	CONT-LEAK	EE-MDP-PSM-BC-R	1E-1101	RA-1-1-27H	*
155	78	7	1.04E-09	0.66410	RHR018B-800-CC	SUR-002-L	DG2A-GEN-LF-FTR	1E-LOSP	*
156	78	7	1.04E-09	0.66410	CONT-LEAK	DG0-GEN-CC-FTS	SUR-002-L	1E-LOSP	*
157	79	7	1.04E-09	0.66605	RA-8-27H	RA-9-27H	DG2A-GEN-CC-FTS	1E-LOSP	*
158	79	7	1.04E-09	0.66605	CONT-LEAK	DG0-GEN-LF-FTR	SUR-002-L	1E-LOSP	*
159	80	6	1.03E-09	0.66790	AP039K2-800-LFO	RA-8-27H	DG0V01CA-RUM-0	1E-LOSP	*
160	80	6	1.03E-09	0.66790	RA-8-27H	CONT-LEAK	DG0V01CA-RUM-0	1E-LOSP	*
161	81	7	1.03E-09	0.66976	CONT-LEAK	SUR-002-L	DG2A-CEN-LF-FTS	1E-LOSP	*
162	81	7	1.03E-09	0.66976	RA-8-27H	DG0-GEN-CC-FTR	SUR-002-L	1E-LOSP	*
163	83	7	1.03E-09	0.67161	CONT-LEAK	RA-9-27H	DG2A-GEN-CC-FTR	1E-LOSP	*
164	83	7	1.03E-09	0.67161	CONT-LEAK	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	1E-LOSP	*
165	82	6	1.03E-09	0.67346	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
166	82	6	1.03E-09	0.67346	AP040K2-800-LFO	CONT-LEAK	DG0V01CA-RUM-0	1E-LOSP	*
167	84	7	9.22E-10	0.67512	RA-8-27H	SUR-002-L	DG2A-GEN-LF-FTS	1E-LOSP	*
168	84	7	9.22E-10	0.67512	1E8233A-BCC-AS	CONT-LEAK	SUR-002-L	1E-LOSP	*
169	84	7	9.22E-10	0.67512	RA-8-27H	RA-9-27H	DG2A-GEN-LF-FTS	1E-LOSP	*
170	96	7	9.22E-10	0.67677	CONT-LEAK	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTS	1E-LOSP	*
171	96	7	9.22E-10	0.67677	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
172	97	7	9.22E-10	0.67843	1E8234B-BCC-CC	CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	*
173	97	7	9.22E-10	0.67843	CONT-LEAK	RA-8-27H	DG0-GEN-LF-FTS	1E-LOSP	*
174	92	7	9.22E-10	0.68008	C2D001P-FMS-CC	RA-8-27H	DG0-GEN-LF-FTS	1E-LOSP	*
175	92	7	9.22E-10	0.68008	RA-8-27H	CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	*
176	95	7	9.22E-10	0.68174	CONT-LEAK	RA-9-27H	SUR-002-L	1E-LOSP	*
177	95	7	9.22E-10	0.68174	1E8413A-800-CC	DG0-GEN-LF-FTS	DG2V03CB-FMS-CC	1E-LOSP	*
178	90	7	9.22E-10	0.68339	RA-8-27H	RA-8-27H	SUR-002-L	1E-LOSP	*
179	91	7	9.22E-10	0.68505	1E8422B-BCC-CC	CONT-LEAK	DG2A-GEN-LF-FIS	1E-LOSP	*
180	91	7	9.22E-10	0.68505	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
181	93	7	9.22E-10	0.68670	CONT-LEAK	CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	*
182	93	7	9.22E-10	0.68670	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
183	89	7	9.22E-10	0.68836	CONT-LEAK	DAV-800-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	*
184	89	7	9.22E-10	0.68836	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
185	84	7	9.22E-10	0.69001	CONT-LEAK	DAV-800-COM-CC	DG2A-GEN-LF-FTS	1E-LOSP	*
186	84	7	9.22E-10	0.69001	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
187	86	7	9.22E-10	0.69167	9A-8-27H	CONT-LEAK	DG2A-GEN-LF-FIS	1E-LOSP	*
188	86	7	9.22E-10	0.69167	C2D001P-FMS-CC	CONT-LEAK	DG2A-GEN-LF-FIS	1E-LOSP	*
189	88	7	9.22E-10	0.69332	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
190	88	7	9.22E-10	0.69332	1E8425B-BCC-CC	CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	*
191	87	7	9.22E-10	0.69498	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
192	87	7	9.22E-10	0.69498	1E8425B-L00-CC	CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	*
193	85	7	9.22E-10	0.69663	RA-8-27H	RA-9-27H	SUR-002-L	1E-LOSP	*
194	85	7	9.22E-10	0.69663	1E8412A-BCC-CC	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP	*
195	98	7	9.22E-10	0.69829	CONT-LEAK	RA-9-27H	SUR-002-L	1E-LOSP	*
196	98	7	9.22E-10	0.69829	RA-9-27H	DG0-GEN-LF-FTS	1E-LOSP	RA-8-27H	*
197	99	7	9.22E-10	0.69994	CONT-LEAK	RHR018B-800-CC	SUR-002-L	1E-LOSP	*
198	99	7	9.22E-10	0.69994	CONT-LEAK	D-2A-GEN-LF-FTS	1E-LOSP	RA-8-27H	*
199	100	7	9.22E-10	0.70150	RA-9-27H	RHR01AA-800-CC	SUR-002-L	1E-LOSP	*
200	100	7	9.22E-10	0.70150	CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	RA-8-27H	*
201					RA-9-27H	SEVY03Cb FMS-CC	SUR-002-L		*

202	101	7	9.19E-10	0.70325	CONT-LEAK	EE-MOP-PSM-BC-R	FLOW-CHR-B3	1E-1101	*
203	103	6	8.85E-10	0.74483	LAK93CP3-LECC	RA-2-11-27H	SUR-002-L		*
204	105	6	8.85E-10	0.74483	AP040K2-R00-LFO	CONT-LEAK	ESCD300A-PLG-LF	1E-LDS	*
205	102	6	8.85E-10	0.70842	AP039K2-R00-LFO	SUR-002-L	ESCD300A-PLG-LF	1E-LOSP	*
206	107	7	8.40E-10	0.70793	RA-8-27H	SUR-002-L	1E-LOSP	RA-8-27H	*
207	110	7	8.40E-10	0.70944	CONT-LEAK	RHRC02AA-P-UUM	SUR-002-L		*
208	110	7	8.40E-10	0.70944	RA-9-27H	DG0-GEN-LF-FTR	1E-LOSP	RA-8-27H	*
209	211	7	8.40E-10	0.71095	CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	RA-8-27H	*
210	104	8	8.40E-10	0.71095	RA-9-27H	RHRC02BB-P-UUM	SUR-002-L		*
211	106	8	8.40E-10	0.71246	CONT-LEAK	CG2A-GEN-LF-FTR	1E-LOSP	RA-8-27H	*
212	108	7	8.40E-10	0.71397	RA-9-27H	RHRC02AA-P-UUM	SCSF06AA-DEMER	SUR-002-L	*
213	109	7	8.40E-10	0.71548	CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	RA-8-27H	*
214	105	7	8.40E-10	0.71699	RA-8-27H	CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	*
215	112	7	8.28E-10	0.71847	CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	LCSC002A-P-UUM	*
216	111	7	8.28E-10	0.71995	AP039K2-R00-LFO	RA-9-27H	1E-LOSP		*
217	115	6	8.11E-10	0.77141	AP040K2-R00-LFO	CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	*
218	114	6	8.11E-10	0.72287	RA-8-27H	CONT-LEAK	SUR-002-L		*
219	113	6	8.11E-10	0.72432	RHRC02AA-PMS-LF	RA-9-27H	SUR-002-L		*
220	115	6	8.11E-10	0.72578	AP039K2-R00-LFO	CONT-LEAK	DG0-GEN-CC-FTR	1E-LOSP	*
221	117	7	7.92E-10	0.72720	CONT-LEAK	CONT-LEAK	DG0-GEN-CC-FTR	1E-LOSP	*
222	116	6	7.92E-10	0.72862	RA-2-11-27H	SUR-002-L	1E-LOSP		*
223	120	7	7.84E-10	0.73003	CONT-LEAK	EE-MOP-PSM-BC-R	FLOW-RHR-B3	1E-1101	*
224	119	7	7.84E-10	0.73144	RA-8-27H	RHF488-V00-CC	SUR-002-L		*
225	121	6	7.81E-10	0.73284	CONT-LEAK	CSCF0688-VCC-CC	EE-MOP-PSM-BC-R	1E-1101	*
226	122	6	7.81E-10	0.73425	RA-2-11-27H	SUR-002-L	1E-LOSP		*
227	124	7	7.4E-10	0.73559	CONT-LEAK	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	1E-LOSP	*
228	123	7	7.48E-10	0.73693	1E41YA-V-UUM	RA-9-27H	SUR-002-L		*
229	125	7	7.00E-10	0.73819	LAK98CB-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	1E-LOSP	*
230	126	7	7.00E-10	0.73945	1E41YA-V-UUM	RA-9-27H	SUR-002-L		*
231	251	7	7.00E-10	0.73819	LAK1888-R00-LFO	CONT-LEAK	RA-NONE	RHR07AK-NTX-LFB	*
232	252	7	7.00E-10	0.73945	1E6233A-BCC-MS	RA-8-27H	1E-1102		*
233	253	7	7.00E-10	0.73945	CONT-LEAK	CONT-LEAK	1E-1101		*
234	254	7	7.00E-10	0.73945	RA-8-27H	RA-9-27H	1E-1101		*
235	255	7	7.00E-10	0.73945	C20G01P-PMS-LF	CONT-LEAK	EE-MOP-PSM-BC-R		*
236	256	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
237	257	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
238	258	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
239	259	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
240	260	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
241	261	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
242	262	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
243	263	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
244	264	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
245	265	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
246	266	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
247	267	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
248	268	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
249	269	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
250	270	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
251	271	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
252	272	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*
253	273	7	7.00E-10	0.73945	RA-8-27H	CONT-LEAK	EE-MOP-PSM-BC-R		*



254	127	7	7.00E-10	0.74071	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* NWV01CA-FMS-CC
255	132	7	7.00E-10	0.74196	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP
256	129	7	7.00E-10	0.74322	CONT-LEAK	* DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* RA-8-27H
257	138	7	7.00E-10	0.74448	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
258	140	7	7.00E-10	0.74574	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
259	141	7	7.00E-10	0.74700	RA-9-27H	* SEV03CB-FMS-CC	* SUR-002-L	* RA-8-27H
260	139	7	7.00E-10	0.74825	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
261	137	7	7.00E-10	0.74951	RA-8-27H	* RHR0188-800-P	* SUR-002-L	* IE-LOSP
262	135	7	7.00E-10	0.75077	1EB4258-BCC-CC	* CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP
263	136	7	7.00E-10	0.75203	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP
264	128	7	7.00E-10	0.75328	1EB2348-BCC-CC	* CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP
265	134	7	7.00E-10	0.75454	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP
266	133	7	7.00E-10	0.75580	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* IE-LOSP
267	131	7	7.00E-10	0.75706	RA-8-27H	* RA-9-27H	* SUR-002-L	* IE-LOSP
268	130	7	7.00E-10	0.75832	1EB413A-800-CC	* CONT-LEAK	* DG2A-GEN-LF-FTR	* RA-8-27H
269	145	7	6.64E-10	0.75951	RA-9-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
270	143	6	6.64E-10	0.76070	1EB4238-800-CC	* CONT-LEAK	* DG0-GEN-LF-FTR	* RA-8-27H
271	142	6	6.64E-10	0.76189	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
272	144	7	6.64E-10	0.76308	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
273	146	6	6.64E-10	0.76427	RA-9-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
274	145	7	6.64E-10	0.76546	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
275	143	6	6.64E-10	0.76666	RHR0288-P-UUM	* SCSF068B-DENER	* SUR-002-L	* RA-8-27H
276	142	6	6.64E-10	0.76785	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
277	144	7	6.64E-10	0.76904	RHR0288-P-UUM	* SUR-002-L	* DG2A-GEN-LF-FTR	* RA-8-27H
278	146	6	6.64E-10	0.77023	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
279	145	7	6.64E-10	0.77142	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
280	143	6	6.64E-10	0.77261	1EB4238-800-CC	* CONT-LEAK	* DG0-GEN-LF-FTR	* RA-8-27H
281	142	6	6.64E-10	0.77380	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
282	144	7	6.64E-10	0.77499	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
283	146	6	6.64E-10	0.77618	RA-9-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
284	145	7	6.64E-10	0.77737	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
285	143	6	6.64E-10	0.77856	RHR0288-P-UUM	* SCSF068B-DENER	* SUR-002-L	* RA-8-27H
286	142	6	6.64E-10	0.77975	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
287	144	7	6.64E-10	0.78094	RHR0288-P-UUM	* SUR-002-L	* DG2A-GEN-LF-FTR	* RA-8-27H
288	146	6	6.64E-10	0.78213	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
289	145	7	6.64E-10	0.78332	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
290	143	6	6.64E-10	0.78451	1EB4238-800-CC	* CONT-LEAK	* DG0-GEN-LF-FTR	* RA-8-27H
291	142	6	6.64E-10	0.78570	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
292	144	7	6.64E-10	0.78689	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
293	146	6	6.64E-10	0.78808	RA-9-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
294	145	7	6.64E-10	0.78927	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
295	143	6	6.64E-10	0.79046	RHR0288-P-UUM	* SCSF068B-DENER	* SUR-002-L	* RA-8-27H
296	142	6	6.64E-10	0.79165	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
297	144	7	6.64E-10	0.79284	RHR0288-P-UUM	* SUR-002-L	* DG2A-GEN-LF-FTR	* RA-8-27H
298	146	6	6.64E-10	0.79403	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
299	145	7	6.64E-10	0.79522	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
300	143	6	6.64E-10	0.79641	1EB4238-800-CC	* CONT-LEAK	* DG0-GEN-LF-FTR	* RA-8-27H
301	142	6	6.64E-10	0.79760	RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
302	144	7	6.64E-10	0.79879	CONT-LEAK	* DG2A-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
303	146	6	6.64E-10	0.79998	RA-9-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
304	145	7	6.64E-10	0.80117	CONT-LEAK	* DG0-GEN-LF-FTR	* IE-LOSP	* RA-8-27H
305	143	6	6.64E-10	0.80236	1EB4238-800-CC	* CONT-LEAK	* DG0-GEN-LF-FTR	* RA-8-27H

306	162	6	5.53E-10	0.77189	CONT-LEAK	* DG0-G-UUM	* DG2V03CB-FMS-CC	* 1E-LOSP	*
307					RA-B-27H	* SUR-002-L	+		
308	168	6	5.53E-10	0.77288	CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	* RA-B-27H	*
309					RHRB01AA-BGO-CC	* SUR-002-L	+		
310	164	6	5.53E-10	0.77388	CONT-LEAK	* DG0V01CA-FMS-CC	* DG2A-G-UUM	* 1E-LOSP	*
311					RA-B-27H	* SUR-002-L	+		
312	166	6	5.53E-10	0.77487	C2DG01P-PMS-CC	* CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	*
313					RA-B-27H	* SUR-002-L	+		
314	167	6	5.53E-10	0.77586	1EB423B-B00-CC	* CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	*
315					RA-B-27H	* SUR-002-L	+		
316	165	6	5.53E-10	0.77685	1EB413A-B00-CC	* CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	*
317					RA-B-27H	* SUR-002-L	+		
318	163	6	5.53E-10	0.77785	1EB234B-BCC-CC	* CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	*
319					RA-B-27H	* SUR-002-L	+		
320	157	6	5.53E-10	0.77884	1EB412A-BCC-CC	* CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	*
321					RA-B-27H	* SUR-002-L	+		
322	159	6	5.53E-10	0.77983	CONT-LEAK	* I70-G-UUM	* 1E-LOSP	* RA-B-27H	*
323					RHRB01BB-B00-CC	* SUR-002-L	+		
324	158	6	5.53E-10	0.78083	1EB233A-BCC-AS	* CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	*
325					RA-B-27H	* SUR-002-L	+		
326	155	6	5.53E-10	0.78182	CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	* NWVY01CA-FMS-CC	*
327					RA-B-27H	* SUR-002-L	+		
328	156	6	5.53E-10	0.78281	CONT-LEAK	* DAV-MOD-COM-CC	* DG0-G-UUM	* 1E-LOSP	*
329					RA-B-27H	* SUR-002-L	+		
330	154	6	5.53E-10	0.78381	1EB425B-BCC-CC	* CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	*
331					RA-B-27H	* SUR-002-L	+		
332	152	6	5.53E-10	0.78480	CONT-LEAK	* D0V-MOD-COM-CC	* DG2A-G-UUM	* 1E-LOSP	*
333					RA-B-27H	* SUR-002-L	+		
334	160	6	5.53E-10	0.78579	CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	* RA-B-27H	*
335					SEVY03CB-FMS-CC	* SUR-002-L	+		
336	153	6	5.53E-10	0.78678	C0DG01P-PMS-CC	* CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	*
337					RA-B-27H	* SUR-002-L	+		
338	172	6	5.31E-10	0.78774	AP040X2-R00-LF0	* CONT-LEAK	* EE-CSCD300A-PLG	* 1E-LOSP	*
339					RA-B-27H	* SUR-002-L	+		
340	169	6	5.31E-10	0.78869	AP039X2-P00-LF0	* CONT-LEAK	* EE-C0DG01F-PLG	* 1E-LOSP	*
341					RA-B-27H	* SUR-002-L	+		
342	170	6	5.31E-10	0.78964	AP039X2-R00-LF0	* CONT-LEAK	* EE-CSCD300A-PLG	* 1E-LOSP	*
343					RA-B-27H	* SUR-002-L	+		
344	171	6	5.31E-10	0.79060	AP040X2-R00-LF0	* CONT-LEAK	* EE-C0DG01F-PLG	* 1E-LOSP	*
345					RA-B-27H	* SUR-002-L	+		
346	173	7	5.16E-10	0.79152	CONT-LEAK	* DG0V01CA-RUM-0	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
347					RA-B-27H	* RA-9-27H	* SUR-002-L	+	
348	174	7	5.06E-10	0.79243	1EB236B-BCD-LF	* CONT-LEAK	* CRD1-REALIGN-OE	* 1E-T1	*
349					RA-NONE	* RHRH01AX-HTX-LFB	* SUR-002-L	+	
350	175	6	4.99E-10	0.79333	CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDP-PSW-BC-R	* 1E-T101	*
351					RA-1-1-27H	* SUR-002-L	+		
352	176	6	4.57E-10	0.79415	CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	* RA-1-1-27H	*
353					RHRC02BB-PMS-LF	* SUR-002-L	+		
354	177	6	4.57E-10	0.79497	C2DG01P-PMS-LF	* CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	*
355					RA-1-1-27H	* SUR-002-L	+		
356	179	7	4.42E-10	0.79577	CONT-LEAK	* CSCD300A-PLG-LF	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
357					RA-B-27H	* RA-9-27H	* SUR-002-L	+	

358	178	7	4.42E-10	0.79656	CONT-LEAK	* CS0300B-PLG-LF	* DGD-GEN-LF-FTS	* 1E-LOSP
359					RA-8-27H	* RA-9-27H	* SUR-002-L	*
360	183	6	4.28E-10	0.79733	AP040X2-ROO-LFO	* CONT-LEAK	* DGDV01FX-KLN-LFB	* 1E-LOSP
361					RA-8-27H	* SUR-002-L	*	*
362	182	6	4.28E-10	0.79810	AP039X2-ROO-LFO	* CONT-LEAK	* DGDV01FX-KLN-LFB	* 1E-LOSP
363					AP040X2-ROO-LFO	* SUR-002-L	*	*
364	181	6	4.28E-10	0.79886	RA-8-27H	* C00G01F-PLG-LF	* CONT-LEAK	* 1E-LOSP
365					AP039X2-ROO-LFO	* SUR-002-L	*	*
366	180	6	4.28E-10	0.79963	AP039X7-ROO-LFO	* J0G01F-PLG-LF	* CONT-LEAK	* 1E-LOSP
367					RA-8-27H	* SUR-002-L	*	*
368	184	7	4.06E-10	0.80036	CONT-LEAK	* DGD-GEN-LF-FTS	* RA-8-27H	*
369					RA-9-27H	* RHR02BB-FMS-LF	* SUR-042-L	* 1E-LOSP
370	187	7	4.06E-10	0.80109	CZ0G01P-FMS-LF	* CONT-LEAK	* DGD-GEN-LF-FTS	* 1E-LOSP
371					RA-8-27H	* RA-9-27H	* SUR-002-L	* 1E-LOSP
372	186	7	4.06E-10	0.80182	C00G01P-FMS-LF	* CONT-LEAK	* D62A-GEN-LF-FTS	* 1E-LOSP
373					RA-8-27H	* RA-9-27H	* SUR-002-L	* RA-8-27H
374	185	7	4.06E-10	0.80254	CONT-LEAK	* 6F2A-GEN-LF-FTS	* 1E-LOSP	*
375					RA-9-27H	* RHR02AA-FMS-LF	* SUP-002-L	* RA-8-27H
376	189	6	3.98E-10	0.80326	AP040X2-ROO-LFO	* CONT-LEAK	* DGDV01CA-FMS-LF	* 1E-LOSP
377					RA-8-27H	* SUR-002-L	* 1E-LOSP	* NAVY01CA-FMS-LF
378	191	6	3.98E-10	0.80397	AP040X2-ROO-LFO	* CONT-LEAK	* CONT-LEAK	*
379					RA-8-27H	* SUR-002-L	* 1E-LOSP	* NAVY01CA-FMS-LF
380	190	6	3.98E-10	0.80469	AP039X2-ROO-LFO	* CONT-LEAK	* DGDV01CA-FMS-LF	* 1E-LOSP
381					RA-8-27H	* SUR-002-L	* 1E-LOSP	*
382	188	6	3.98E-10	0.80540	AP039X2-ROO-LFO	* CONT-LEAK	* D62A-GLV-LF-FTR	* 1E-LOSP
383					CONT-LEAK	* DGDV01CA-RUM-0	* SUR-002-L	* RA-NONE
384	192	7	3.92E-10	0.80611	RA-8-27H	* RA-9-27H	* 1E-T102	* RA-NONE
385					RLOSP	* CONT-LEAK	* RA-NONE	* RHR02BB-P-UUM
386	196	6	3.78E-10	0.80679	CZ0G01P-P-UUM	* SUR-002-L	* RA-NONE	* RHR02AA-P-UUM
387					CONT-LEAK	* 1E-T101	* RA-NONE	*
388	197	7	3.78E-10	0.80747	RLOSP	* SCF06BB-DENER	* SUR-002-L	* RHR02AA-P-UUM
389					CONT-LEAK	* 1E-T102	* RA-NONE	*
390	198	6	3.78E-10	0.814	RLOSP	* SUR-002-L	* 1E-T102	*
391					C00G01P-P-UUM	* CONT-LEAK	* RA-NONE	*
392	194	6	3.78E-10	0.81882	RLOSP	* SUR-002-L	* RA-NONE	*
393					CONT-LEAK	* 1E-T102	* RA-NONE	*
394	193	7	3.78E-10	0.80950	RLOSP	* SCF06AA-DENER	* SUR-002-L	* P4RC02BB-P-UUM
395					CONT-LEAK	* 1E-T101	* RA-NONE	*
396	195	6	3.78E-10	0.81018	CONT-LEAK	* SUR-002-L	* 1E-T102	*
397					1E41YA-V-UUM	* CONT-LEAK	* RA-NONE	*
398	199	6	3.73E-10	0.81085	RHR01AX-ITX-LFB	* SUR-002-L	* FLOW-RWR-A3	* 1E-LOSP
399					AP040X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* 1E-LOSP
400	220	7	3.69E-10	0.81151	RA-8-27H	* RHRF48AA-V00-LF	* CONT-LEAK	*
401					1E8412A-8CC-LF	* APO39X2-ROO-LFO	* CONT-LEAK	*
402	221	6	3.69E-10	0.81217	RA-8-27H	* SUR-002-L	* DGDV01YA-M-UUM	* 1E-LOSP
403					AP040X2-ROO-LFO	* CONT-LEAK	* 1E-LOSP	*
404	219	6	3.69E-10	0.81283	RA-8-27H	* SUR-002-L	* NAVY01CA-F-UUM	*
405					AP039X2-ROO-LFO	* CONT-LEAK	* 1E-LOSP	*
406	217	6	3.69E-10	0.81350	RA-8-27H	* SUR-002-L	* DGDV02YA-M-UUM	* 1E-LOSP
407					AP040X2-ROO-LFO	* CONT-LEAK	*	*
408	214	6	3.69E-10	0.81416	RA-8-27H	* SUR-002-L	*	*
409						*	*	*

410	215	6	3.69E-10	0.81482	AP039X2-R00-LFO	* CONT-LEAK	* RA-8-27H	*
411	212	6	3.69E-10	0.81548	RHR601AA-B00-LF	* SUR-002-L	* TE-LOSP	*
412	210	6	3.69E-10	0.81614	AP040X2-R00-LFO	* CONT-LEAK	* NNAVY01CA-F-UUM	*
413	218	6	3.69E-10	0.81681	RA-8-27H	* SUR-002-L	* ES07068A-VCC-LF	* TE-LOSP
414	207	6	3.69E-10	0.81747	AP040X2-R00-LFO	* CONT-LEAK	* DG0V02YA-M-UUM	* TE-LOSP
415	208	6	3.69E-10	0.81813	RA-6-27H	* SUR-002-L	* DG0V01CA-F-UUM	* TE-LOSP
416	209	6	3.69E-10	0.81879	AP039X2-R00-LFO	* CONT-LEAK	* CONT-LEAK	* TE-LOSP
417	213	6	3.69E-10	0.81945	RA-8-27H	* SUR-002-L	* CONT-LEAK	* TE-LOSP
418	206	6	3.69E-10	0.82012	1E8412A-BCC-LF	* AP040X2-R00-LFO	* CONT-LEAK	* TE-LOSP
419	216	7	3.69E-10	0.82078	1E8413A-B00-LF	* SUR-002-L	* CONT-LEAK	* TE-LOSP
420	211	6	3.69E-10	0.82144	RA-8-27H	* SUR-002-L	* FLOW-RHR-A3	* TE-LOSP
421	204	6	3.69E-10	0.82210	AP039X2-R00-LFO	* CONT-LEAK	* SUR-002-L	* TE-LOSP
422	203	6	3.69E-10	0.82275	RHR601AA-B00-LF	* RHRF48AA-V00-LF	* TE-LOSP	* RA-8-27H
423	202	6	3.69E-10	0.82343	1E8233A-BCC-LF	* SUR-002-L	* CONT-LEAK	* TE-LOSP
424	201	6	3.69E-10	0.82409	AP039X2-R00-LFO	* CONT-LEAK	* DG0V01YA-M-UUM	* TE-LOSP
425	205	6	3.69E-10	0.82475	RA-8-27H	* SUR-002-L	* CONT-LEAK	* TE-LOSP
426	200	6	3.69E-10	0.82541	AP040X2-R00-LFO	* CONT-LEAK	* DG0V1CA-F-UUM	* TE-LOSP
427	222	6	3.49E-10	0.82604	RA-8-27H	* SUR-002-L	* CONT-LEAK	* TE-LOSP
428	224	7	3.38E-10	0.82665	1E8413A-B00-LF	* AP039X2-R00-LFO	* C.C.F068A-VCC-LF	* TE-LOSP
429	223	7	3.38E-10	0.82725	RA-8-27H	* SUR-002-L	* EE-T101	* RA-1-1-27H
430	225	7	3.36E-10	0.82786	AP040X2-R00-LFO	* CONT-LEAK	* SUR-002-L	* RA-8-27H
431	226	7	3.36E-10	0.82846	RA-8-27H	* DG0-GEN-CC-FTS	* SUR-002-L	* RA-8-27H
432	227	7	3.27E-10	0.82905	CONT-LEAK	* RHR01BX-HTX-LF9	* SUR-002-L	* RA-8-27H
433	228	7	3.77E-10	0.82964	RA-8-27H	* DG2A-GEN-CC-FTS	* SUR-002-L	* RA-8-27H
434	234	6	3.15E-10	0.83020	CONT-LEAK	* RHR01AX-HTX-LF8	* SUR-002-L	* TE-LOSP
435	233	6	3.15E-10	0.83077	SEY03CB-FMS-CC	* CSC0300B-PLG-LF	* DG0-GEN-LF-FTR	* TE-LOSP
436	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
437	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG2A-GEN-LF-FTR	* SUR-002-L
438	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
439	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG2A-GEN-CC-FTS	* SUR-002-L
440	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG2A-G-UUM	* SUR-002-L
441	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
442	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* RA-NONE	* RA-NONE
443	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* TE-T101	* TE-T101
444	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
445	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
446	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG0-GEN-CC-FTS	* DG0-GEN-CC-FTS
447	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* RHR01BX-HTX-LF9	* RHR01BX-HTX-LF9
448	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG2A-GEN-CC-FTS	* DG2A-GEN-CC-FTS
449	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* RHR01AX-HTX-LF8	* RHR01AX-HTX-LF8
450	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* CSC0300B-PLG-LF	* CSC0300B-PLG-LF
451	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* RA-9-27H	* RA-9-27H
452	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG0-GEN-LF-FTR	* DG0-GEN-LF-FTR
453	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
454	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG2A-GEN-CC-FTS	* DG2A-GEN-CC-FTS
455	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
456	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* DG2A-G-UUM	* DG2A-G-UUM
457	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
458	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* RA-NONE	* RA-NONE
459	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* TE-T101	* TE-T101
460	460	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L
461	461	6	3.15E-10	0.83077	RLOSP	* RA-9-27H	* SUR-002-L	* SUR-002-L

462	232	6	3.15E-10	0.83133	CONT-LEAK	1E-1102	RA-NONE	RA-NONE	RHR01AA-B00-CC
463					RLOSP	SUR-002-L			
464	231	6	3.15E-10	0.83190	C00G01P-PMS-CC	CONT-LEAK	1E-1102	RA-NONE	RA-NONE
465					RLOSP	SUR-002-L			
466	230	6	3.15E-10	0.83247	CONT-LEAK	1E-1101	RA-NONE	RWF301BB-R00-CC	
467					RLOSP	SUR-002-L			
468	229	6	3.15E-10	0.83303	CONT-LEAK	1E-1102	NWV01CA-PMS-CC	RA-NONE	RA-NONE
469					RLOSP	SUR-002-L			
470	235	7	3.10E-10	0.83359	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP	NWV01AX-ACK-LFI	
471					RA-8-27H	RA-9-27H	SUR-002-L		
472	237	6	3.10E-10	0.83414	CONT-LEAK	DG0V01CA-RUM-0	DG2A-G-UUM	1E-LOSP	
473					RA-8-27H	SUR-002-L			
474	236	7	3.10E-10	0.83470	CONT-LEAK	DGJ-GEN-LF-FTS	1E-LOSP	RA-8-27H	
475					RA-9-27H	SEVY03AK-ACK-LFI	SUR-002-L		
476	239	7	3.08E-10	0.83525	CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	RA-8-27H	
477					RA-9-27H	RHR02BB-PMS-LF	SUR-002-L		
478	238	7	3.08E-10	0.83581	CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	RA-8-27H	
479					RA-9-27H	RHR02AA-PMS-LF	SUR-002-L		
480	241	7	3.08E-10	0.83636	C2D01P-PMS-LF	CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	
481					RA-8-27H	RA-9-27H	SUR-002-L		
482	240	7	3.08E-10	0.83691	C00G01P-PMS-LF	CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	
483					RA-8-27H	RA-9-27H	SUR-002-L		
484	245	7	2.95E-10	0.83744	AP040X2-R00-LFO	CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	
485					1E-LOSP	RA-8-27H	SUR-002-L		
486	244	7	2.95E-10	0.83797	AP040X2-R00-LFO	1E-LOSP	DG2A-GEN-LF-FTR	1E-LOSP	
487					1E-LOSP	RA-8-27H	SUR-002-L		
488	242	7	2.95E-10	0.83850	AP039X2-R00-LFO	CONT-LEAK	D0V8102X-B00-LF	D0V8202X-B00-LF	
489					1E-LOSP	RA-8-27H	SUR-002-L		
490	243	7	2.73E-10	0.83903	AP039X2-R00-LFO	CONT-LEAK	D0V8102X-B00-LF	D0V8202X-B00-LF	
491					1E-LOSP	RA-8-27H	SUR-002-L		
492	248	6	2.74E-10	0.83952	1E-LOSP	CONT-LEAK	D0V8101X-B00-LF	D0V8201X-B00-LF	
493					AP040X4CP1-LFC0	CONT-LEAK	EE-M0P-PSM-8C-R	1E-1101	
494	246	6	2.74E-10	0.84002	RA-1-1-27H	SUR-002-L	1E-1101	LAK288XCP4-LFC0	
495					CONT-LEAK	EE-M0P-PSM-8C-R			
496	247	6	2.74E-10	0.84051	CONT-LEAK	SUR-002-L	1E-1101	LAK388XCP1-LFC0	
497					RA-1-1-27H	SUR-002-L			
498	250	6	2.65E-10	0.84099	CONT-LEAK	CSCD300A-PLG-LF	DG2A-G-UUM	1E-LOSP	
499					RA-8-27H	SUR-002-L			
500	249	6	2.65E-10	0.84146	CONT-LEAK	CSCD300B-PLG-LF	DG0-G-UUM	1E-LOSP	
501					RA-8-27H	SUR-002-L			
502	254	7	2.65E-10	0.84194	CONT-LEAK	DG2A-GEN-LF-FTS	EE-CSCD300A-PLG	1E-LOSP	
503					RA-8-27H	RA-9-27H	SUR-002-L		
504	251	7	2.65E-10	0.84242	CONT-LEAK	DG0-GEN-LF-FTS	EE-C2D01F-PLG	1E-LOSP	
505					RA-8-27H	RA-9-27H	SUR-002-L		
506	253	7	2.65E-10	0.84289	CONT-LEAK	DG2A-GEN-LF-FTS	EE-C00G01F-PLG	1E-LOSP	
507					RA-8-27H	RA-9-27H	SUR-002-L		
508	252	7	2.65E-10	0.84337	CONT-LEAK	DG0-GEN-LF-FTS	EE-CSCD300B-PLG	1E-LOSP	
509					RA-8-27H	RA-9-27H	SUR-002-L		
510	255	7	2.56E-10	0.84383	CONT-LEAK	DG2A-GEN-CC-FTR	1E-LOSP	RA-8-27H	
511					RA-9-27H	RHR01AX-HTX-LFB	SUR-002-L		
512	256	7	2.56E-10	0.84429	CONT-LEAK	DG0-GEN-CC-FTR	1E-LOSP	RA-8-27H	
513					RA-9-27H	RHR01BX-HTX-LFB	SUR-002-L		

514	257	6	2.51E-10	0.84474	C2D601P-PMS-LF	* CONT-LEAK	* RA-8-27H	* IE-LOSP	* RA-8-27H	*
515	258	6	2.51E-10	0.84519	RHR01AX-HTX-LFB	* SUR-002-L	* RA-8-27H	* IE-LOSP	* RA-8-27H	*
516	259	7	2.48E-10	0.84564	CDD601P-PMS-LF	* CONT-LEAK	* DG2A-GEN-CC-FTR	* SUR-002-L	* IE-LOSP	*
517	260	7	2.48E-10	0.84608	RHR01BX-HTX-LFB	* SUR-002-L	* DG2A-GEN-CC-FTR	* SUR-002-L	* IE-LOSP	*
518	261	7	2.48E-10	0.84652	CONT-LEAK	* DGD-G-UUM	* SUR-002-L	* DG2A-G-UUM	* IE-LOSP	*
519	262	7	2.48E-10	0.84696	RA-8-27H	* RA-9-27H	* SUR-002-L	* SUR-002-L	* CRD1-REALIGN-DE	*
520	263	8	2.45E-10	0.84740	CONT-LEAK	* DGD-GEN-CC-FTR	* SUR-002-L	* SUR-002-L	* IE-T1	*
521	264	7	2.45E-10	0.84784	RA-8-27H	* RA-9-27H	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
522	265	7	2.45E-10	0.84828	1EB236B-BCO-LF	* RA-NONE	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
523	266	6	2.43E-10	0.84871	1EB236B-BCO-LF	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
524	267	6	2.43E-10	0.84915	RA-NONE	* RHR02AA-P-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
525	268	7	2.43E-10	0.84959	1EB236B-BCO-LF	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
526	269	7	2.43E-10	0.85002	LCS002A-P-UUM	* RA-NONE	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
527	270	7	2.35E-10	0.85044	1EB236B-BCO-LF	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
528	271	7	2.35E-10	0.85087	RA-NONE	* RHR03AA-P-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
529	272	6	2.25E-10	0.85127	CONT-LEAK	* DGD-G-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
530	273	6	2.25E-10	0.85167	RHR02BB-PMS-LF	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
531	274	6	2.21E-10	0.85206	CONT-LEAK	* DG2A-G-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
532	275	6	2.21E-10	0.85246	RHR02AA-PMS-LF	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
533	276	6	2.21E-10	0.85286	C2D601P-PMS-LF	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
534	277	6	2.21E-10	0.85326	RA-8-27H	* RA-8-27H	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
535	278	6	2.21E-10	0.85365	CG001P-PMS-LF	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
536	279	6	2.21E-10	0.85405	RA-8-27H	* RA-8-27H	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
537	280	6	2.21E-10	0.85445	C2D601F-PLC-LF	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
538	281	6	2.21E-10	0.85484	RA-1-1-27H	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
539	282	6	2.21E-10	0.85524	CONT-LEAK	* DGD-GEN-LF-FTR	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
540	283	6	2.21E-10	0.85564	CONT-LEAK	* SEVY03AX-ACR-LFI	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
541	284	6	2.21E-10	0.85604	RA-9-27H	* SEVY03AX-ACR-LFI	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
542	285	6	2.21E-10	0.85644	CONT-LEAK	* DG2A-GEN-LF-FTR	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
543	286	6	2.21E-10	0.85684	RA-8-27H	* RA-9-27H	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
544	287	6	2.21E-10	0.85724	CONT-LEAK	* EE-MDP-PSM-BC-R	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
545	288	6	2.21E-10	0.85764	SEVY03CR-FMS-LF	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
546	289	6	2.21E-10	0.85804	AP040X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
547	290	6	2.21E-10	0.85844	RHRF55AX-R-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
548	291	6	2.21E-10	0.85884	AP039X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
549	292	6	2.21E-10	0.85924	RHRF65AA-N-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
550	293	6	2.21E-10	0.85964	AP040X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
551	294	6	2.21E-10	0.86004	RHRF51AA-N-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
552	295	6	2.21E-10	0.86044	AP039X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
553	296	6	2.21E-10	0.86084	SCSF06AA-V-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
554	297	6	2.21E-10	0.86124	AP039X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
555	298	6	2.21E-10	0.86164	RA-8-27H	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
556	299	6	2.21E-10	0.86204	AP039X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
557	300	6	2.21E-10	0.86244	RHRF51AA-N-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
558	301	6	2.21E-10	0.86284	AP039X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
559	302	6	2.21E-10	0.86324	RHRF07AA-V-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
560	303	6	2.21E-10	0.86364	AP039X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
561	304	6	2.21E-10	0.86404	RHRF55AX-R-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
562	305	6	2.21E-10	0.86444	AP040X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
563	306	6	2.21E-10	0.86484	RA-8-27H	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
564	307	6	2.21E-10	0.86524	AP040X2-ROO-LFO	* CONT-LEAK	* SUR-002-L	* SUR-002-L	* SUR-002-L	*
565	308	6	2.21E-10	0.86564	SCSF06AA-V-UUM	* SUR-002-L	* SUR-002-L	* SUR-002-L	* SUR-002-L	*

566	286	7	2.21E-10	0.85564	AP039X2-R00-LFO	* CONT-LEAK	* FLOW-RHR-A3	* IE-LOSP	*
567					RA-B-27H	* RHRF48AA-V-UJM	* SUR-002-L	+	
568	284	7	2.21E-10	0.85604	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
569					RHRF47AA-V-UJM	* SCSF06AA-DENER	* SUR-002-L	+	
570	280	7	2.21E-10	0.85643	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
571					RHRF88AX-R-UJM	* SCSF06AA-DENER	* SUR-002-L	+	
572	276	7	2.21E-10	0.85683	AP040X2-R00-LFO	* CONT-LEAK	* FLOW-RHR-A3	* IE-LOSP	*
573					RA-B-27H	* RHRF48AA-V-UJM	* SUR-002-L	+	
574	277	6	2.21E-10	0.85723	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
575					RHRF65AA-N-UJM	* SUR-002-L	+		
576	274	7	2.21E-10	0.85763	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
577					RHRF88AX-R-UJM	* SCSF06AA-DENER	* SUR-002-L	+	
578	273	6	2.21E-10	0.85802	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* NWV01AX-A-UJM	*
579					RA-B-27H	* SUR-002-L	+		
580	275	7	2.21E-10	0.85842	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
581					RHRF64AA-V-UJM	* SCSF06AA-DENER	* SUR-002-L	+	
582	282	6	2.21E-10	0.85882	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
583					RHRF60AA-S-UJM	* SUR-002-L	+		
584	281	7	2.21E-10	0.85921	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
585					RHRF64AA-V-UJM	* SCSF06AA-DENER	* SUR-002-L	+	
586	283	6	2.21E-10	0.85961	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
587					RHRF74AA-V-UJM	* SUR-002-L	+		
588	299	6	2.21E-10	0.86001	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
589					RHRH01AX-H-UJM	* SUR-002-L	+		
590	287	6	2.21E-10	0.86041	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
591					RHRF60AA-S-UJM	* SUR-002-L	+		
592	285	6	2.21E-10	0.86080	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
593					RHRF74AA-V-UJM	* SUR-002-L	+		
594	293	7	2.21E-10	0.86120	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
595					RHRF47AA-V-UJM	* SCSF06AA-DENER	* SUR-002-L	+	
596	288	6	2.21E-10	0.86150	AP040X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
597					RHRF87AA-V-UJM	* SUR-002-L	+		
598	279	6	2.21E-10	0.86199	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* RA-8-27H	*
599					RHRH01AX-H-UJM	* SUR-002-L	+		
600	278	6	2.21E-10	0.86239	AP039X2-R00-LFO	* CONT-LEAK	* IE-LOSP	* PC02X X-ADD-LFO	*
601					RA-B-27H	* SUR-002-L	+		
602	316	6	2.21E-10	0.86279	AP040X2-R00-LFO	* CONT-LEAK	* DGGV01YA-MCC-LF	* IE-LOSP	*
603					RA-B-27H	* SUR-002-L	+		
604	314	6	2.21E-10	0.86319	AP040X2-R00-LFO	* CONT-LEAK	* CSCD300A-S-UJM	* IE-LOSP	*
605					RA-B-27H	* SUR-002-L	+		
606	313	6	2.21E-10	0.86358	AP039X2-R00-LFO	* CONT-LEAK	* DGGV01YA-MCC-LF	* IE-LOSP	*
607					RA-B-27H	* SUR-002-L	+		
608	312	6	2.21E-10	0.86398	AP039X2-R00-LFO	* CODG01F-S-UJM	* CONT-LEAK	* IE-LOSP	*
609					RA-B-27H	* SUR-002-L	+		
610	311	6	2.21E-10	0.86438	AP039X2-R00-LFO	* AP251X2CP4-LFOO	* CONT-LEAK	* IE-LOSP	*
611					RA-B-27H	* SUR-002-L	+		
612	304	6	2.21E-10	0.86477	AP039X2-R00-LFO	* CONT-LEAK	* DGGV02YA-MCC-LF	* IE-LOSP	*
613					RA-B-27H	* SUR-002-L	+		
614	310	6	2.21E-10	0.86517	AP040X2-R00-LFO	* CODG01F-S-UJM	* CONT-LEAK	* IE-LOSP	*
615					RA-B-27H	* SUR-002-L	+		
616	309	6	2.21E-10	0.86557	AP040X2-R00-LFO	* CONT-LEAK	* DGGV02YA-MCC-LF	* IE-LOSP	*
617					RA-B-27H	* SUR-002-L	+		

618	307	6	2.21E-10	0.86597	AP039X2-R00-LFO	CONT-LEAK	06DWD3YA-MCC-LF	1E-LOSP
619	308	6	2.21E-10	0.86636	RA-8-27H	SUR-002-L	CONT-LEAK	1E-LOSP
620	306	6	2.21E-10	0.86676	1EK1BA18CP6-LFO	AP039X2-R00-LFO	DGWD3YA-MCC-LF	1E-LOSP
621	305	6	2.21E-10	0.86716	RA-8-27H	SUR-002-L	CONT-LEAK	1E-LOSP
622	315	6	2.21E-10	0.86756	AP040X2-R00-LFO	AP040X2-R00-LFO	CSCF008A-V-UUM	1E-LOSP
623	302	6	2.21E-10	0.86795	1EK1BA18CP6-LFO	SUR-002-L	CSCD300A-S-UUM	1E-LOSP
624	303	6	2.21E-10	0.86835	RA-8-27H	CONT-LEAK	CONT-LEAK	1E-LOSP
625	301	6	2.21E-10	0.86875	AP039X2-R00-LFO	SUR-002-L	DG0-GEN-LF-FTS	1E-LOSP
626	321	7	2.14E-10	0.86913	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
627	319	7	2.14E-10	0.86951	AP040X2-R00-LFO	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
628	320	7	2.14E-10	0.86990	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
629	317	7	2.14E-10	0.87029	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
630	318	7	2.14E-10	0.87067	1EK1BARC-R00-LFO	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
631	324	6	2.08E-10	0.87104	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
632	323	7	2.08E-10	0.87141	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
633	322	6	2.08E-10	0.87179	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
634	325	6	2.08E-10	0.87216	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
635	326	6	2.08E-10	0.87253	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
636	329	7	2.04E-10	0.87290	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
637	328	7	2.04E-10	0.87327	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
638	327	7	2.04E-10	0.87363	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
639	330	7	2.02E-10	0.87399	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
640	331	7	2.02E-10	0.87436	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
641	332	7	2.02E-10	0.87472	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
642	333	7	2.02E-10	0.87508	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
643	334	7	2.02E-10	0.87544	RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
644	669				RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
645					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
646					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
647					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
648					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
649					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
650					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
651					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
652					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
653					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
654					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
655					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
656					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
657					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
658					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
659					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
660					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
661					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
662					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
663					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
664					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
665					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
666					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
667					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
668					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP
669					RA-8-27H	CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP



670	337	7	1.91E-13	0.87580	CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	* RA-B-27H	*
671					RA-9-27H	* SEVY03CB-FMS-LF	* SUR-002-L	*	
672	336	7	1.99E-10	0.87616	CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	* NWVY01CA-FMS-LF	*
673					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
674	335	7	1.99E-10	0.87652	CONT-LEAK	* DGOV01CA-FMS-LF	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
675					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
676	338	7	1.99E-10	0.87687	CONT-LEAK	* DGO-GEN-LF-FTS	* DG2V03CB-FMS-LF	* 1E-LOSP	*
677					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
678	339	6	1.86E-10	0.87721	CONT-LEAK	* DGO-G-UUM	* 1E-LOSP	* RA-B-27H	*
679					SEVY03AX-ACX-LFI	* SUR-002-L	*		
680	340	6	1.86E-10	0.87754	CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	* NWVY01AX-ACX-LFI	*
681					RA-B-27H	* SUR-002-L	*		
682	355	7	1.84E-10	0.87787	1EB425B-BCC-LF	* CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	*
683					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
684	354	7	1.84E-10	0.87820	1EB233A-BCC-LF	* CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
685					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
686	353	7	1.84E-10	0.87853	2DG1PK1B-R00-LFO	* CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	*
687					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
688	352	7	1.84E-10	0.87886	1EB422B-BCC-LF	* CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	*
689					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
690	351	7	1.84E-10	0.87920	CONT-LEAK	* CSCF068B-VCC-LF	* DGO-GEN-LF-FTS	* 1E-LOSP	*
691					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
692	350	7	1.84E-10	0.87953	1EB412A-BCC-LF	* CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
693					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
694	349	7	1.84E-10	0.87986	CONT-LEAK	* DGOV03YA-M-UUM	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
695					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
696	348	7	1.84E-10	0.88019	CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	* NWVY01CA-F-UUM	*
697					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
698	347	7	1.84E-10	0.88052	CONT-LEAK	* DGOV02YA-M-UUM	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
699					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
700	346	7	1.84E-10	0.88085	1EB234B-BCC-LF	* CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	*
701					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
702	345	7	1.84E-10	0.88118	1EB423B-B00-LF	* CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	*
703					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
704	344	7	1.84E-10	0.88151	1EB413A-B00-LF	* CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
705					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
706	343	7	1.84E-10	0.88184	CONT-LEAK	* DGOV01CA-F-UUM	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
707					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
708	342	7	1.84E-10	0.88217	CONT-LEAK	* DGOV01YA-M-UUM	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
709					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
710	341	7	1.84E-10	0.88251	CONT-LEAK	* CSCF068A-VCC-LF	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
711					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
712	364	7	1.84E-10	0.88284	CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	* RA-B-27H	*
713					RA-9-27H	* RHRB01AA-B00-LF	* SUR-002-L	*	
714	363	7	1.84E-10	0.88317	CONT-LEAK	* DGO-GEN-LF-FTS	* DG2V10YB-M-UUM	* 1E-LOSP	*
715					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
716	362	7	1.84E-10	0.88350	CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	* RA-B-27H	*
717					RA-9-27H	* RHRB01BB-B00-LF	* SUR-002-L	*	
718	361	7	1.84E-10	0.88383	CONT-LEAK	* DGO-GEN-LF-FTS	* DG2V09YB-M-UUM	* 1E-LOSP	*
719					RA-B-27H	* RA-9-27H	* SUR-002-L	*	
720	360	8	1.84E-10	0.88416	CONT-LEAK	* DG2A-GEN-LF-FTS	* FLOW-RHR-A3	* 1E-LOSP	*
721					RA-B-27H	* RA-9-27H	* RHRF48AA-V00-LF	* SUR-002-L	*

722	359	7	1.84E-10	0.88449	CONT-LEAK	* RA-9-27H	* DGO-GEN-LF-FTS	* DG2V11YB-M-UJM	* 1E-10SP	*
723					RA-8-27H	* RA-9-27H	* DGO-GEN-LF-FTS	* SUR-002-L	* RA-8-27H	*
724	358	7	1.84E-10	0.88482	CONT-LEAK	* DGO-GEN-LF-FTS	* SEV103CB-F-UJM	* SUR-002-L	* 1E-LOSP	*
725					RA-9-27H	* DGO-GEN-LF-FTS	* RA-9-27H	* DG2V03CB-F-UJM	* 1E-LOSP	*
726	357	7	1.84E-10	0.88515	CONT-LEAK	* RA-9-27H	* JGO-GEN-LF-FTS	* SUR-002-L	* 1E-LOSP	*
727					RA-8-27H	* RA-9-27H	* FLOW-RHR-83	* PHR-488B-V00-LF	* SUR-002-L	*
728	356	8	1.84E-10	0.88548	CONT-LEAK	* RA-9-27H	* CONT-LEAK	* 1E-1101	* RA-NONE	*
729					RA-8-27H	* SUR-002-L	* SUR-002-L	* 1E-1102	* RA-NONE	*
730	370	6	1.80E-10	0.88581	1E42Y8-V-UJM	* SUR-002-L	* CONT-LEAK	* CONT-LEAK	* 1E-1101	*
731					RHRC028B-P-NDUJM	* SUR-002-L	* SUR-002-L	* 1E-1102	* RA-NONE	*
732	369	6	1.80E-10	0.88613	1E41YA-V-UJM	* SUR-002-L	* CONT-LEAK	* CONT-LEAK	* 1E-1101	*
733					RHRC02AA-P-NDUJM	* SUR-002-L	* C2D001P-P-UJM	* CONT-LEAK	* RA-NONE	*
734	368	6	1.80E-10	0.88645	1E42Y8-V-UJM	* SUR-002-L	* C2D001P-P-UJM	* CONT-LEAK	* 1E-1102	*
735					RA-NONE	* SUR-002-L	* SUR-002-L	* CONT-LEAK	* RA-NONE	*
736	367	6	1.80E-10	0.88678	1E41YA-V-UJM	* SUR-002-L	* C0D001P-P-UJM	* CONT-LEAK	* 1E-1102	*
737					RA-NONE	* SUR-002-L	* SUR-002-L	* CONT-LEAK	* RA-NONE	*
738	366	6	1.80E-10	0.88710	1E41YA-V-UJM	* SUR-002-L	* CONT-LEAK	* 1E-1102	* LCSC002A-P-UJM	*
739					RA-NONE	* SUR-002-L	* SUR-002-L	* CONT-LEAK	* RA-NONE	*
740	365	7	1.80E-10	0.88742	1E41YA-V-UJM	* SUR-002-L	* SC5F06AA-DENER	* SUR-002-L	* RA-NONE	*
741					RHRC02AA-P-UJM	* SC5F06AA-DENER	* EE-M0P-F5M-BC-R	* 1E-1101	* LAK2R6CB-RCL-LFC	*
742	371	7	1.66E-10	0.88772	CONT-LEAK	* RA-1-1-27H	* EE-M0P-F5M-BC-R	* SUR-002-L	* RA-8-27H	*
743					LAK708RB-R00-LFO	* RA-1-1-27H	* EE-C0D001F-PLG	* 1E-LOSP	* RA-8-27H	*
744	372	6	1.65E-10	0.88802	CONT-LEAK	* SUR-002-L	* SUR-002-L	* 1E-LOSP	* RA-8-27H	*
745					RHR01B-HTX-LFB	* SUR-002-L	* EE-C2D001F-PLG	* 1E-LOSP	* RA-8-27H	*
746	373	6	1.65E-10	0.88831	CONT-LEAK	* SUR-002-L	* EE-C2D001F-PLG	* DGO-GEN-LF-FTS	* 1E-LOSP	*
747					RHR01AX-HTX-LFB	* SUR-002-L	* SUR-002-L	* SUR-002-L	* 1E-LOSP	*
748	375	7	1.64E-10	0.88861	C2D001P-P-UJM	* CAT-LEAK	* RA-9-27H	* DG2A-GEN-LC-FTS	* 1E-LOSP	*
749					RA-8-27H	* RA-9-27H	* CONT-LEAK	* SUR-002-L	* RA-8-27H	*
750	374	7	1.64E-10	0.88890	C0D001P-P-UJM	* RA-9-27H	* RA-9-27H	* 1E-LOSP	* RA-8-27H	*
751					RA-8-27H	* RA-9-27H	* DGO-GEN-CC-FTS	* SUR-002-L	* RA-8-27H	*
752	380	8	1.64E-10	0.88920	CONT-LEAK	* RHR028B-P-UJM	* RHR028B-P-UJM	* SC5F06BB-DEYER	* SUR-002-L	*
753					RA-9-27H	* RA-9-27H	* DG2A-GEN-CC-FTS	* 1E-LOSP	* RA-8-27H	*
754	379	8	1.64E-10	0.88949	CONT-LEAK	* RA-9-27H	* RHR02AA-P-UJM	* SC5F06AA-RENER	* SUR-002-L	*
755					RA-9-27H	* RA-9-27H	* DGO-GEN-CC-FTS	* 1E-LOSP	* RA-8-27H	*
756	378	7	1.64E-10	0.88978	CONT-LEAK	* RA-9-27H	* RHR028B-P-NDUJM	* SUR-002-L	* RA-8-27H	*
757					RA-9-27H	* RA-9-27H	* DG2A-GEN-CC-FTS	* SUR-002-L	* RA-8-27H	*
758	376	7	1.64E-10	0.89008	CONT-LEAK	* RA-9-27H	* RHR02AA-P-NDUJM	* 1E-LOSP	* LCSC002A-P-UJM	*
759					RA-9-27H	* RA-9-27H	* DG2A-GEN-CC-FTS	* SUR-002-L	* RA-8-27H	*
760	377	7	1.64E-10	0.89037	CONT-LEAK	* RA-9-27H	* CONT-LEAK	* DG2A-GEN-LF-FI	* 1E-LOSP	*
761					C0D001F-PLG-LF	* RA-9-27H	* RA-9-27H	* SUR-002-L	* 1E-LOSP	*
762	385	7	1.62E-10	0.89066	RA-8-27H	* RA-9-27H	* RA-9-27H	* DGO-GEN-LF-FTR	* 1E-LOSP	*
763					RA-8-27H	* RA-9-27H	* CONT-LEAK	* SUR-002-L	* 1E-LOSP	*
764	384	7	1.62E-10	0.89095	C2D001F-PLG-LF	* RA-9-27H	* RA-9-27H	* DGO-GEN-LF-FTR	* 1E-LOSP	*
765					RA-8-27H	* RA-9-27H	* CONT-LEAK	* SUR-002-L	* 1E-LOSP	*
766	383	7	1.62E-10	0.89125	1EK18ARC-R00-LFO	* RA-9-27H	* RA-9-27H	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
767					RA-8-27H	* RA-9-27H	* DGO-GEN-LF-FTR	* SUR-002-L	* 1E-LOSP	*
768	382	7	1.62E-10	0.89154	CONT-LEAK	* RA-9-27H	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
769					RA-8-27H	* RA-9-27H	* DGO-GEN-LF-FTR	* SUR-002-L	* 1E-LOSP	*
770	381	7	1.62E-10	0.89183	CONT-LEAK	* RA-9-27H	* DGO-GEN-LF-FTR	* DG2V02FX-KLN-LFB	* 1E-LOSP	*
771					RA-8-27H	* RA-9-27H	* DGO-GEN-LF-FTR	* SUR-002-L	* 1E-LOSP	*
772	389	6	1.59E-10	0.89212	CONT-LEAK	* RA-9-27H	* DG2A-GEN-LF-FTR	* SUR-002-L	* 1E-LOSP	*
773					RA-8-27H	* SUR-002-L	* EE-C0D001F-PLG	* SUR-002-L	* 1E-LOSP	*



826	415	7	1.40E-10	0.89931	CONT-LEAK	DG0V02YA-M-UUM	DG2A-GEN-LF-FTR	1E-LOSP	*
827					RA-8-27H	RA-9-27H	SUR-002-L		*
828	417	7	1.40E-10	0.89956	1E8425B-BCC-LF	CONT-LEAK	D10-GEN-LF-FTR	1E-LOSP	*
829					RA-8-27H	RA-9-27H	SUR-002-L		*
830	416	6	1.40E-10	0.89982	CONT-LEAK	DG0-GEN-LF-FTR	FLOW-RHR-B3	1E-LOSP	*
831					RA-8-27H	RA-9-27H	RHRF488B-V00-LF	SUR-002-L	*
832	419	7	1.40E-10	0.90007	CONT-LEAK	D52A-GEN-LF-FTR	1E-LOSP	NWYD1CA-F-UUM	*
833					RA-8-27H	RA-9-27H	SUR-002-L		*
834	414	7	1.40E-10	0.90032	CONT-LEAK	DG0-GEN-LF-FTR	DG2V03CS-F-UUM	1E-LOSP	*
835					RA-8-27H	RA-9-27H	SUR-002-L		*
836	422	7	1.40E-10	0.90057	CONT-LEAK	DG0-GEN-LF-FTR	DG2V11YB-M-UUM	1E-LOSP	*
837					RA-8-27H	RA-9-27H	SUR-002-L		*
838	412	7	1.40E-10	0.90082	CONT-LEAK	9G0-GEN-LF-FTR	1E-LOSP	RA-8-27H	*
839					RA-8-27H	RHRB01B5-B00-LF	SUR-002-L		*
840	421	7	1.40E-10	0.90107	CONT-LEAK	DG0-GEN-LF-FTR	DG2V09YB-M-UUM	1E-LOSP	*
841					RA-8-27H	RA-9-27H	SUR-002-L		*
842	418	7	1.40E-10	0.90132	CONT-LEAK	DG0-GEN-LF-FTR	DG2V10YB-M-UUM	1E-LOSP	*
843					RA-8-27H	RA-9-27H	SUR-002-L		*
844	423	7	1.40E-10	0.90158	CONT-LEAK	DG0V03YA-M-UUM	DG2A-GEN-LF-FTR	1E-LOSP	*
845					RA-8-27H	RA-9-27H	SUR-002-L		*
846	411	7	1.40E-10	0.90183	1E8235A-BCC-LF	CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	*
847					RA-8-27H	RA-9-27H	SUR-002-L		*
848	410	7	1.40E-10	0.90208	1E8412A-BCC-LF	CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	*
849					RA-8-27H	RA-9-27H	SUR-002-L		*
850	409	8	1.40E-10	0.90233	CONT-LEAK	DG2A-GEN-LF-FTR	FLOW-RHR-A3	1E-LOSP	*
851					RA-8-27H	RA-9-27H	RHRF488A-V00-LF	SUR-002-L	*
852	427	7	1.40E-10	0.90258	CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	RA-8-27H	*
853					RA-9-27H	SEVY03CB-F-UUM	SUR-002-L		*
854	408	7	1.40E-10	0.90283	CONT-LEAK	DG0V01CA-F-UUM	DG2A-GEN-LF-FTR	1E-LOSP	*
855					RA-8-27H	RA-9-27H	SUR-002-L		*
856	407	7	1.40E-10	0.90308	CONT-LEAK	CSCF068A-VCC-LF	DG2A-GEN-LF-FTR	1E-LOSP	*
857					RA-8-27H	RA-9-27H	SUR-002-L		*
858	406	7	1.40E-10	0.90334	1E8423B-B00-LF	CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	*
859					RA-8-27H	RA-9-27H	SUR-002-L		*
860	433	6	1.39E-10	0.90359	CONT-LEAK	1E-T102	RA-NONE	RHR028A-PMS-LF	*
861					RLOSP	SUR-002-L			*
862	432	6	1.39E-10	0.90383	C2D0G01P-PMS-LF	CONT-LEAK	1E-T102	RA-NONE	*
863					RLOSP	SUR-002-L			*
864	431	6	1.39E-10	0.90408	CONT-LEAK	1E-T101	RA-NONE	RHR028B-PMS-LF	*
865					RLOSP	SUR-002-L			*
866	430	6	1.39E-10	0.90433	C2D0G01P-PMS-LF	CONT-LEAK	1E-T101	RA-NONE	*
867					RLOSP	SUR-002-L			*
868	430	6	1.38E-10	0.90458	1E8235A-BCC-LF	1EDC2DEP-FRP-27H	CONT-LEAK	1E-198	*
869					RA-NONE	SUR-002-L			*
870	438	6	1.38E-10	0.90483	1E8236B-BCC-LF	1EDC2DEP-FRP-27H	CONT-LEAK	1E-19A	*
871					RA-NONE	SUR-002-L			*
872	437	6	1.38E-10	0.90508	1E8235A-BCC-LF	1EDC2DEP-FRP-27H	CONT-LEAK	'102	*
873					RA-NONE	SUR-002-L			*
874	436	6	1.38E-10	0.90533	1E8235A-BCC-LF	1EDC2B-P-FRP-27H	CCNT-LEAK	1E-T102	*
875					RA-NONE	SUR-002-L			*

SEQUENCE T24

TOP EVENT DPOSA2-T-SEQ2A CONTAINS 265 EVENTS IN 1359 CUT SETS

THE FREQUENCY OF TOP EVENT DPOSA2-T-SEQ2A IS 1.04E-07

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DPOSA2-T-SEQ2A

N	300
MEAN	2.26E-07
STD DEV	9.92E-07
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.21E-06

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, \*ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE T24  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 1%
SUR-024-R	1076	9.30E-02 ( 16.0)	6.11E-08 ( 1.0)	0.00E+00	3.85E-07
RA-8-27H	996	3.20E-03 ( 49.5)	5.91E-08 ( 2.0)	0.00E+00	3.71E-07
SUR-023-R	263	8.50E-02 ( 17.0)	4.30E-08 ( 3.0)	0.00E+00	5.77E-07
RA-NONE	212	1.00E+00 ( 6.0)	3.46E-08 ( 4.0)		
RA-9-27H	484	4.00E-01 ( 13.0)	3.23E-08 ( 5.0)	0.00E+00	1.52E-07
AP040X2-ROO-LFO	82	2.00E-02 ( 30.0)	1.25E-08 ( 6.5)	0.00E+00	5.47E-08
AP039X2-ROO-LFO	82	2.00E-02 ( 30.0)	1.25E-08 ( 6.5)	0.00E+00	5.47E-08
D70-GEN-LF-FTS	99	2.50E-02 ( 19.5)	1.14E-08 ( 8.0)	0.00E+00	6.41E-08
EE-MOP-PSW-BC-R	86	3.30E-01 ( 14.0)	1.00E-08 ( 9.0)		
DGG-GEN-LF-FTR	99	1.90E-02 ( 40.5)	8.65E-09 ( 10.0)	0.00E+00	3.01E-08
DG2A-GEN-LF-FTS	92	2.50E-02 ( 19.5)	8.55E-09 ( 11.0)	0.00E+00	5.55E-08
1EB211YX-BCO-LF	5	7.20E-05 ( 242.0)	7.68E-09 ( 12.5)	0.00E+00	1.03E-07
1EB1122X-BCO	3	7.20E-05 ( 242.0)	7.68E-09 ( 12.5)	0.00E+00	1.03E-07
1EB2122X-BCO	3	7.20E-05 ( 242.0)	7.66E-09 ( 14.5)	0.00E+00	1.03E-07
1EB212YX-BCO-LF	3	7.20E-05 ( 242.0)	7.66E-09 ( 14.5)	0.00E+00	1.03E-07
RA-1-1-27H	122	2.10E-03 ( 91.5)	7.25E-09 ( 16.0)	0.00E+00	6.51E-08
DG2A-GEN-LF-FTR	92	1.90E-02 ( 40.5)	6.50E-09 ( 17.0)	0.00E+00	2.66E-08
DGO-0-UUM	41	6.00E-03 ( 44.5)	4.95E-09 ( 18.0)	0.00E+00	4.16E-08
HRH01AX-HTX-LFB	26	6.20E-03 ( 42.5)	3.56E-09 ( 19.0)	0.00E+00	1.78E-08
JG2A-C-UUM	41	6.00E-03 ( 44.5)	3.33E-09 ( 20.0)	0.00E+00	2.35E-08
RA-2-11-27H	35	1.60E-03 ( 95.0)	2.99E-09 ( 21.0)	0.00E+00	2.08E-08
RHRH01BX-HTX-LFB	24	6.20E-03 ( 42.5)	2.14E-09 ( 22.0)	0.00E+00	1.33E-08
SCSF06AA-DENER	41	1.00E+00 ( 6.0)	2.11E-09 ( 23.0)		
BLOSP	74	2.10E-04 ( 202.0)	1.84E-09 ( 24.0)	0.00E+00	2.79E-08
FLOW-KRR-83	28	1.00E+00 ( 6.0)	1.84E-09 ( 25.0)		
LAK98CB-ROO-LFO	16	2.00E-02 ( 30.0)	1.73E-09 ( 26.0)	0.00E+00	6.31E-09
LAK198RB-ROO-LFO	15	2.00E-02 ( 30.0)	1.73E-09 ( 27.0)	0.00E+00	6.30E-09
LCSC002A-P-UUM	26	3.00E-03 ( 55.0)	1.72E-09 ( 28.5)	0.00E+00	9.76E-09
RHR02AA-P-UUM	26	3.00E-03 ( 55.0)	1.72E-09 ( 28.5)	0.00E+00	9.76E-09
COO001P-P-UUM	17	3.00E-03 ( 55.0)	1.66E-09 ( 30.0)	0.00E+00	7.71E-09
RHR02AA-P-UUM	15	3.00E-03 ( 55.0)	1.62E-09 ( 31.0)	0.00E+00	7.54E-09
DGO-GEN-CC-FTS	36	3.70E-03 ( 46.5)	1.53E-09 ( 32.0)	0.00E+00	4.28E-09
COO001P-FMS-CC	17	2.50E-03 ( 77.0)	1.48E-09 ( 33.0)	0.00E+00	6.19E-09
RHR01AA-ROO-CC	15	2.50E-03 ( 77.0)	1.35E-09 ( 34.5)	0.00E+00	5.14E-09
NWY01CA-FMS-CC	15	2.50E-03 ( 77.0)	1.35E-09 ( 34.5)	0.00E+00	6.14E-09
LAK938RC-ROO-LFO	13	2.00E-02 ( 30.0)	1.31E-09 ( 36.0)	0.00E+00	4.80E-09
1EB413A-ROO-CC	12	2.50E-03 ( 77.0)	1.25E-09 ( 39.0)	0.00E+00	4.63E-09
DGO01CA-FMS-CC	12	2.50E-03 ( 77.0)	1.25E-09 ( 39.0)	0.00E+00	4.63E-09
D7V-MOO-COM-CC	12	2.50E-03 ( 77.0)	1.25E-09 ( 39.0)	0.00E+00	4.63E-09
1EB412A-BCC-CC	12	2.50E-03 ( 77.0)	1.25E-09 ( 39.0)	0.00E+00	4.63E-09
1EB233A-BCC-AS	12	2.50E-03 ( 77.0)	1.25E-09 ( 39.0)	0.00E+00	4.63E-09
SCSF06BB-DENER	41	1.00E+00 ( 6.0)	1.23E-09 ( 42.0)	0.00E+00	4.48E-09
LAK1489C-ROO-LFO	9	2.00E-02 ( 30.0)	1.17E-09 ( 44.0)		
NCFLOW-SPC-B5X	9	1.00E+00 ( 6.0)	1.17E-09 ( 44.0)		
NCFLOW-CSS-B7A	9	1.00E+00 ( 6.0)	1.17E-09 ( 44.0)		

DGD-GEN-CC-FTR	36	2.80E-03	( 63.5)	1.16E-09	( 46.0)	0.00E+00	3.44E-09
DG2A-GEN-CC-FTS	35	3.70E-03	( 66.5)	1.13E-09	( 47.0)	0.00E+00	3.30E-09
RHRC028B-P-UUM	21	3.00E-03	( 55.0)	1.03E-09	( 48.0)	0.00E+00	6.23E-09
C2DG01P-P-UUM	16	3.00E-03	( 55.0)	9.94E-10	( 49.0)	0.00E+00	6.88E-09
RHRC028B-P-NDUUM	14	3.09E-03	( 55.0)	9.52E-10	( 50.0)	0.00E+00	6.75E-09
CSCD300A-PLG-LF	37	1.20E-03	( 99.0)	9.31E-10	( 51.0)	0.00E+00	4.29E-09
1E41YA-V-UUM	32	1.00E-04	(219.5)	8.78E-10	( 52.0)	0.00E+00	1.65E-08
DG2A-GEN-CC-FTR	33	2.80E-03	( 63.5)	8.47E-10	( 53.0)	0.00E+00	3.04E-09
C2DG01P-PMS-CC	16	2.50E-07	( 77.0)	8.28E-10	( 54.0)	0.00E+00	6.01E-09
CRD1-REALIGN-OE	52	2.10E-03	( 91.5)	8.27E-10	( 55.0)	0.00E+00	4.92E-09
SEVY03CB-FMS-CC	14	2.50E-03	( 77.0)	7.94E-10	( 56.5)	0.00E+00	5.80E-09
RHRB018B-800-CC	14	2.50E-03	( 77.0)	7.94E-10	( 56.5)	0.00E+00	5.80E-09
1EB234B-800-LF	47	7.20E-05	(242.0)	7.73E-10	( 58.0)	0.00E+00	5.54E-09
DG0V01CA-RUM-0	16	1.40E-03	( 96.5)	7.32E-10	( 59.0)	0.00E+00	2.97E-09
CDDG01P-PMS-LF	26	1.10E-03	(103.0)	7.21E-10	( 60.0)	0.00E+00	3.71E-09
RHRC02AA-PMS-LF	18	1.10E-03	(103.0)	6.14E-10	( 61.0)	0.00E+00	3.38E-09
CSCD300B-PLG-LF	32	1.20E-03	( 99.0)	5.99E-10	( 62.0)	0.00E+00	4.66E-09
EE-CDDG01F-PLG	26	7.20E-04	(112.5)	5.64E-10	( 63.0)	0.00E+00	1.64E-09
DG2V03CB-FMS-CC	12	2.50E-03	( 77.0)	5.50E-10	( 66.5)	0.00E+00	2.94E-09
1EB234B-800-CC	12	2.50E-03	( 77.0)	5.50E-10	( 66.5)	0.00E+00	2.94E-09
DAV-M00-COM-CC	12	2.50E-03	( 77.0)	5.50E-10	( 66.5)	0.00E+00	2.94E-09
1EB425B-800-CC	12	2.50E-03	( 77.0)	5.50E-10	( 66.5)	0.00E+00	2.94E-09
1EB423B-800-CC	12	2.50E-03	( 77.0)	5.50E-10	( 66.5)	0.00E+00	2.94E-09
1EB422B-800-CC	12	2.50E-03	( 77.0)	5.50E-10	( 66.5)	0.00E+00	2.94E-09
C2DG01P-PMS-LF	25	1.10E-03	(103.0)	5.03E-10	( 70.0)	0.00E+00	3.34E-09
EE-CSCD300A-PLG	20	7.20E-04	(112.5)	4.95E-10	( 71.0)	0.00E+00	2.02E-09
CDDG01F-PLG-LF	25	5.80E-04	(123.0)	4.65E-10	( 72.0)	0.00E+00	1.99E-09
DG0V01FX-KLN-LFB	23	5.80E-04	(123.0)	4.45E-10	( 73.0)	0.00E+00	1.76E-09
NWVY01AX-ACX-LFI	11	8.40E-04	(106.5)	4.43E-10	( 74.0)	0.00E+00	2.09E-09
FLOW-RHR-A3	21	1.00E+00	( 6.0)	4.22E-10	( 75.0)	0.00E+00	1.25E-09
EE-C2DG01F-PLG	26	7.20E-04	(112.5)	3.73E-10	( 76.0)	0.00E+00	2.72E-09
RHRC028B-PMS-LF	16	1.10E-03	(103.0)	3.72E-10	( 77.0)	0.00E+00	7.34E-09
1E42YB-V-UUM	21	1.00E-04	(219.5)	3.67E-10	( 78.0)	0.00E+00	2.20E-09
C2DG01F-PLG-LF	25	5.80E-04	(123.0)	3.50E-10	( 79.0)	0.00E+00	2.20E-09
D0VB102X-800-LF	22	2.00E-02	( 30.0)	3.05E-10	( 80.0)	0.00E+00	8.55E-10
D0VB202X-800-LF	20	2.00E-02	( 30.0)	2.97E-10	( 82.0)	0.00E+00	8.12E-10
D0VB101X-800-LF	20	2.00E-02	( 30.0)	2.97E-10	( 82.0)	0.00E+00	8.12E-10
D0VB201X-800-LF	20	2.00E-02	( 30.0)	2.97E-10	( 82.0)	0.00E+00	8.12E-10
DG2V02FX-KLN-LFB	22	5.80E-04	(123.0)	2.87E-10	( 84.0)	0.00E+00	1.35E-09
1EB412A-bCC-LF	12	5.00E-04	(142.0)	2.81E-10	( 86.0)	0.00E+00	9.00E-10
1EB233A-800-LF	12	5.00E-04	(142.0)	2.81E-10	( 86.0)	0.00E+00	9.00E-10
1EB413A-800-LF	10	5.00E-04	(142.0)	2.81E-10	( 86.0)	0.00E+00	9.00E-10
RHRB018A-800-LF	10	5.00E-04	(142.0)	2.58E-10	( 89.0)	0.00E+00	8.95E-10
RHRF48AA-V00-LF	10	5.00E-04	(142.0)	2.58E-10	( 89.0)	0.00E+00	9.71E-10
CSCF068A-VCC-LF	10	5.00E-04	(142.0)	2.58E-10	( 89.0)	0.00E+00	9.71E-10
SEVY03AX-ACX-LFI	9	8.40E-04	(106.5)	2.53E-10	( 91.0)	0.00E+00	1.71E-09
LAK38RCB-FCO-LFO	1	3.40E-03	( 48.0)	2.50E-10	( 92.0)	0.00E+00	7.80E-10
EE-CSCD300B-PLG	16	7.20E-04	(112.5)	2.49E-10	( 93.0)	0.00E+00	7.34E-10
NWVY01CA-FMS-LF	6	5.40E-04	(127.5)	2.41E-10	( 94.0)	0.00E+00	1.52E-09
DG0V01CA-FMS-LF	5	5.40E-04	(127.5)	2.27E-10	( 95.0)	0.00E+00	1.16E-09
NWVY01CA-F-UUM	6	5.00E-04	(142.0)	2.23E-10	( 96.0)	0.00E+00	1.37E-09
RHRC003B-P-UUM	1	3.00E-03	( 55.0)	2.21E-10	( 97.5)	0.00E+00	1.66E-09





1EK1BARC-ROO-LFO	5	5.80E-04	(123.0)	8.87E-11	(150.0)	0.00E+00	2.80E-10
RA-1-3-27H	11	2.60E-03	( 65.0)	8.47E-11	(151.0)	0.00E+00	8.62E-11
DG2V11YB-MCC-LF	6	3.00E-04	(178.5)	7.67E-11	(153.0)	0.00E+00	6.28E-10
DG2V10YB-MOO-LF	6	3.00E-04	(178.5)	7.67E-11	(153.0)	0.00E+00	6.28E-10
DG2V09YB-HCC-LF	6	3.00E-04	(178.5)	7.67E-11	(153.0)	0.00E+00	6.28E-10
2C11F001B-RCO-LF	10	1.20E-03	( 99.0)	7.55E-11	(155.0)	0.00E+00	2.72E-10
DC2V03CB-FMS-LF	3	5.40E-04	(127.5)	7.25E-11	(156.0)	0.00E+00	3.31E-10
2C11C001B-FMS-LF	10	1.10E-03	(103.0)	6.92E-11	(157.0)	0.00E+00	4.51E-10
DG2V03CB-F-UUM	3	5.00E-04	(142.0)	6.71E-11	(159.5)	0.00E+00	3.65E-10
DG2V11YB-M-UUM	3	5.00E-04	(142.0)	6.71E-11	(159.5)	0.00E+00	3.65E-10
DG2V10YB-M-UUM	3	5.00E-04	(142.0)	6.71E-11	(159.5)	0.00E+00	3.65E-10
DG2V09YB-M-UUM	3	5.00E-04	(142.0)	6.71E-11	(159.5)	0.00E+00	3.65E-10
SEVY03AX-A-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.36E-10
SCS106BB-V-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHRH01BX-R-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.36E-10
RHR788BX-R-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR787BB-V-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR748B-V-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR765BB-N-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR764BB-V-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR760BB-S-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR758BX-R-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR751BB-N-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR748BB-V-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
RHR747BB-V-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
ZDGG01PSC-000-LFO	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.35E-10
ZDGG01K18CA-LFO	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.35E-10
CSC068B-V-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.69E-10
CSC0300B-S-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.36E-10
C20601F-S-UUM	4	3.00E-04	(178.5)	6.71E-11	(170.5)	0.00E+00	3.36E-10
1EBAT2AX-ZBT-LF	8	2.40E-05	(254.5)	6.55E-11	(180.0)	0.00E+00	8.95E-10
AP037X3-ROO-LFO	9	2.00E-02	( 30.0)	6.55E-11	(181.0)	0.00E+00	1.82E-10
NOFLOW-RHR-A1	7	1.00E+00	( 6.0)	6.38E-11	(182.0)	0.00E+00	3.85E-10
1EB16211-BCO	7	8.40E-05	(228.0)	6.33E-11	(183.0)	0.00E+00	7.94E-10
1EBAT2BX-ZBT-LF	7	2.40E-05	(254.5)	5.79E-11	(184.0)	0.00E+00	1.82E-10
AP040X3-ROO-LFO	8	2.00E-02	( 30.0)	5.66E-11	(185.0)	0.00E+00	1.25E-10
1EB235XA-BCO-LF	5	7.20E-05	(242.0)	5.41E-11	(186.0)	0.00E+00	1.45E-10
LAK9ARCA-ROO-LFO	10	2.00E-02	( 30.0)	5.34E-11	(187.5)	0.00E+00	1.11E-10
LAK10RCA-ROO-LFO	10	2.00E-02	( 30.0)	5.34E-11	(187.5)	0.00E+00	1.11E-10
LAK18ARA-ROO-LFO	9	2.00E-02	( 30.0)	5.02E-11	(189.0)	0.00E+00	1.88E-10
RHR301AX-STR	5	1.10E-04	(210.0)	5.00E-11	(190.0)	0.00E+00	2.53E-10
LPCI-MOV-BETA	10	3.00E-02	( 18.0)	4.88E-11	(191.0)	0.00E+00	4.22E-10
LAK3BRCKEPT1-LFO	1	6.60E-04	(119.0)	4.86E-11	(193.0)	0.00E+00	4.22E-10
LAK28BACP4-LFO	1	6.60E-04	(119.0)	4.86E-11	(193.0)	0.00E+00	4.22E-10
A040X4CPT1-LFCD	1	6.60E-04	(119.0)	4.86E-11	(193.0)	0.00E+00	4.22E-10
NOFLOW-RHR-B1	7	1.00E+00	( 6.0)	4.86E-11	(195.0)	0.00E+00	1.12E-10
CCB00GTP-BCU-LF	5	8.40E-05	(228.0)	3.82E-11	(196.0)	0.00E+00	9.11E-11
AP040XZCP7-LFO	2	3.00E-04	(178.5)	3.77E-11	(198.0)	0.00E+00	9.11E-11
AP039XZCP4-LFO	2	3.00E-04	(178.5)	3.77E-11	(198.0)	0.00E+00	9.11E-11
1EK18ABCP6-LFO	2	3.00E-04	(178.5)	3.77E-11	(198.0)	0.00E+00	9.11E-11
NOFLOW-SPC-A5X	6	1.00E+00	( 6.0)	3.38E-11	(201.5)	0.00E+00	3.38E-11
NOFLOW-CSS-A7A	6	1.00E+00	( 6.0)	3.38E-11	(201.5)	0.00E+00	3.38E-11

LAK93ARC-ROO-LFO	6	2.00E-02 ( 30.0)	3.38E-11 (201.5)	0.00E+00	0.00E+00	1.57E-10
LAK14ARC-RCO-LFO	6	2.00E-02 ( 30.0)	7.98E-11 (201.5)	0.00E+00	0.00E+00	1.57E-10
RA-10-1-27H	4	2.10E-03 ( 91.5)	3.21E-11 (204.0)	0.00E+00	0.00E+00	1.80E-10
1EB1Y13X-BCO	4	7.20E-05 (242.0)	2.96E-11 (206.5)	0.00E+00	0.00E+00	7.44E-11
1EB35Y2X-BCO-LF	4	7.20E-05 (242.0)	2.96E-11 (206.5)	0.00E+00	0.00E+00	7.44E-11
MW8001Y-BCO-LF	4	7.20E-05 (242.0)	2.96E-11 (206.5)	0.00E+00	0.00E+00	7.44E-11
1EB235YA-BCO-LF	4	7.20E-05 (242.0)	2.96E-11 (206.5)	0.00E+00	0.00E+00	7.44E-11
LAK70BRB-ROO-LFO	1	2.00E-02 ( 30.0)	2.95E-11 (209.5)	0.00E+00	0.00E+00	4.35E-11
LAK2BRCB-RCO-LFO	1	2.00E-02 ( 30.0)	2.74E-11 (211.0)	0.00E+00	0.00E+00	9.31E-11
1EB236B-B-UJM	2	1.00E-04 (219.5)	2.66E-11 (212.0)	0.00E+00	0.00E+00	2.25E-10
RHR301BX-STR	4	1.10E-04 (210.0)	2.44E-11 (213.5)	0.00E+00	0.00E+00	1.26E-10
LPCI-MOV-CH2	5	2.50E-03 ( 77.0)	2.44E-11 (213.5)	0.00E+00	0.00E+00	1.26E-10
LPCI-MOV-CH1	5	2.50E-03 ( 77.0)	2.44E-11 (213.5)	0.00E+00	0.00E+00	1.26E-10
2C11C001B-800-LF	6	5.00E-04 (142.0)	2.36E-11 (215.0)	0.00E+00	0.00E+00	7.95E-11
RHRFV8BK-XDC-LF	3	1.10E-04 (210.0)	2.19E-11 (217.5)	0.00E+00	0.00E+00	2.15E-10
RHRF47BB-VOC-LF	3	1.10E-04 (210.0)	2.19E-11 (217.5)	0.00E+00	0.00E+00	2.15E-10
RHRF045B-VOC-LF	3	1.10E-04 (210.0)	2.19E-11 (217.5)	0.00E+00	0.00E+00	2.15E-10
RHRF038B-VOC-LF	3	1.10E-04 (210.0)	2.19E-11 (217.5)	0.00E+00	0.00E+00	2.15E-10
RHRF021F-800-LF	4	8.40E-05 (228.0)	2.03E-11 (220.0)	0.00E+00	0.00E+00	9.16E-11
DAYMODCOM-IC-UJM	2	1.50E-04 (203.5)	1.89E-11 (221.5)	0.00E+00	0.00E+00	4.32E-11
DOVMODCOM-CC-UJM	2	1.50E-04 (203.5)	1.89E-11 (221.5)	0.00E+00	0.00E+00	4.32E-11
RHR0003R-RUM-1	1	3.30E-04 (155.0)	1.85E-11 (223.0)	0.00E+00	0.00E+00	5.97E-11
2C11C001A-PMS-LI	4	7.20E-04 (112.5)	1.84E-11 (224.0)	0.00E+00	0.00E+00	5.52E-11
RHRFUF2X-FUS-LF	1	7.20E-05 (242.0)	1.61E-11 (226.0)	0.00E+00	0.00E+00	9.00E-11
RHRFUPTX-FUS-LF	1	7.20E-05 (242.0)	1.61E-11 (226.0)	0.00E+00	0.00E+00	9.00E-11
PSW01FBX-STX-LF	5	7.20E-04 (112.5)	1.44E-11 (228.0)	0.00E+00	0.00E+00	3.62E-11
SEVB001X-BCO-LF	3	7.20E-05 (242.0)	1.38E-11 (230.5)	0.00E+00	0.00E+00	5.98E-11
RHRF95AX-XDC-LF	2	1.10E-04 (210.0)	1.38E-11 (230.5)	0.00E+00	0.00E+00	5.09E-11
RHRF47AA-VOC-LF	2	1.10E-04 (210.0)	1.38E-11 (230.5)	0.00E+00	0.00E+00	5.09E-11
RHRF04AA-VOC-LF	2	1.10E-04 (210.0)	1.38E-11 (230.5)	0.00E+00	0.00E+00	5.09E-11
RHRF03AA-VOC-LF	2	1.10E-04 (210.0)	1.38E-11 (230.5)	0.00E+00	0.00E+00	5.09E-11
RHRF31BX-CCC-LF	2	1.00E-04 (219.5)	1.26E-11 (234.5)	0.00E+00	0.00E+00	7.85E-11
RHRF31AX-CCC-LF	2	1.00E-04 (219.5)	1.26E-11 (234.5)	0.00E+00	0.00E+00	7.85E-11
C20GF002-CCC-LF	2	1.00E-04 (219.5)	1.26E-11 (234.5)	0.00E+00	0.00E+00	7.85E-11
CP0G002-CCC-LF	2	1.00E-04 (219.5)	1.26E-11 (234.5)	0.00E+00	0.00E+00	7.85E-11
1EAP270-DVC-LFC	2	9.60E-05 (224.5)	1.21E-11 (237.5)	0.00E+00	0.00E+00	6.41E-11
1EAP271-DVC-LFC	2	9.60E-05 (224.5)	1.21E-11 (237.5)	0.00E+00	0.00E+00	6.41E-11
ZWR02MA-STR-LF	3	7.20E-04 (112.5)	9.64E-12 (239.5)	0.00E+00	0.00E+00	2.17E-11
ZWR01PA-PMS-FR	3	7.20E-04 (112.5)	9.64E-12 (239.5)	0.00E+00	0.00E+00	1.48E-11
36X2803X-800-LF	2	7.20E-05 (242.0)	9.05E-12 (243.0)	0.00E+00	0.00E+00	2.42E-11
DAVB002X-800-LF	2	7.20E-05 (242.0)	9.05E-12 (243.0)	0.00E+00	0.00E+00	2.42E-11
DAVB001X-800-LF	2	7.20E-05 (242.0)	9.05E-12 (243.0)	0.00E+00	0.00E+00	2.42E-11
1EB36X3X-800-LF	2	7.20E-05 (242.0)	9.05E-12 (243.0)	0.00E+00	0.00E+00	2.42E-11
1EB2Y14X-BCO	2	7.20E-05 (242.0)	8.27E-12 (246.0)	0.00E+00	0.00E+00	2.61E-11
OPF4IL-VENT-2H	1	1.10E-04 (210.0)	8.10E-12 (247.0)	0.00E+00	0.00E+00	6.16E-11
LAS44BX-OCO-LFO	2	1.40E-03 ( 96.5)	8.00E-12 (248.0)	0.00E+00	0.00E+00	1.21E-11
DG0M00-RUM-0	2	2.10E-03 ( 91.5)	7.61E-12 (249.0)	0.00E+00	0.00E+00	2.18E-11
RA-MSLDV-1-2H	2	7.20E-04 (112.5)	6.43E-12 (250.0)	0.00E+00	0.00E+00	9.85E-12
ZWR01PB-PMS-FR	2	7.20E-05 (242.0)	5.30E-12 (251.0)	0.00E+00	0.00E+00	2.42E-11
1EB2Y4X-BCO	1	8.40E-05 (228.0)	4.71E-12 (252.0)	0.00E+00	0.00E+00	1.66E-11
ESCBB08X-BCO-LF	1	1.00E-04 (219.5)	3.27E-12 (253.0)	0.00E+00	0.00E+00	1.53E-11

24R02MB-STR-LF	1	7.20E-04 (112.5)	3.21E-12 (254.0)	0.00E+00	7.25E-12
CONT-LEAK	1339	7.50E-01 ( 12.0)	-3.12E-07 (255.0)	0.00E+00	0.00E+00

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SEQUENCE 124  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK INCREASE	(RANK)	LOWER 5%	UPPER 5%
1E81Y2X-BCO	5	7.20E-05	(242.0)	1.07E-04	( 1.5)	0.00E+00	3.07E-03
1E8211YX-BCO-LF	5	7.20E-05	(242.0)	1.07E-04	( 1.5)	0.00E+00	3.07E-03
1E8212YX-BCO-LF	3	7.20E-05	(242.0)	1.06E-04	( 3.5)	0.00E+00	3.06E-03
1E82Y2X-BCO	3	7.20E-05	(242.0)	1.06E-04	( 3.5)	0.00E+00	3.06E-03
RA-8-27H	996	1.20E-03	( 49.5)	1.84E-05	( 5.0)	0.00E+00	3.30E-04
1E8236B-BCO-LF	47	7.20E-05	(242.0)	1.07E-05	( 5.0)	0.00E+00	2.29E-04
1E41YA-V-UJM	32	1.00E-04	(219.5)	8.78E-06	( 7.0)	0.00E+00	1.81E-04
R10SP	74	2.10E-04	(102.0)	8.76E-06	( 8.0)	0.00E+00	1.96E-04
1E42YB-V-UJM	21	1.00E-04	(219.5)	3.66E-06	( 9.0)	0.00E+00	9.70E-05
PA-T-1-27H	122	2.10E-03	( 91.5)	3.45E-06	(10.0)	0.00E+00	6.87E-05
1E8AT2AX-ZBT-LF	8	1.40E-05	(254.5)	2.73E-06	(11.0)	0.00E+00	6.52E-05
1E8AT2BX-ZBT-LF	7	2.40E-05	(254.5)	2.41E-06	(12.0)	0.00E+00	5.97E-05
RA-2-11-27H	35	1.60E-03	( 95.0)	1.87E-06	(13.0)	0.00E+00	2.39E-05
1E836XB-BCO-LF	10	7.20E-05	(242.0)	1.64E-06	(14.0)	0.00E+00	2.58E-05
1E8235A-BCO-LF	10	7.20E-05	(242.0)	1.51E-06	(15.0)	0.00E+00	1.39E-05
1E816212-BCO	10	8.40E-05	(228.0)	1.35E-05	(16.0)	0.00E+00	2.33E-05
1E8351YX-BCO-LF	9	7.20E-05	(242.0)	1.30E-06	(17.5)	0.00E+00	2.79E-05
1E835YB-BCO-LF	9	7.20E-05	(242.0)	1.30E-06	(17.5)	0.00E+00	2.20E-05
DGO-G-UJM	41	6.00E-03	( 44.5)	8.19E-07	(19.0)	0.00E+00	7.13E-06
C08G01F-PLG-LF	25	5.80E-04	(123.0)	8.01E-07	(20.0)	0.00E+00	7.02E-06
EE-C08G01F-PLG	26	7.20E-04	(112.5)	7.83E-07	(21.0)	0.00E+00	6.53E-06
C5CD300A-PLG-LF	37	1.20E-03	( 99.0)	7.75E-07	(22.0)	0.00E+00	7.77E-06
DGOV01FX-KL4-LFB	23	5.80E-04	(123.0)	7.66E-07	(23.0)	0.00E+00	6.39E-06
1E816211-BCO	7	6.40E-05	(228.0)	7.54E-07	(24.0)	0.00E+00	1.02E-05
1E8235XA-BCO-LF	5	7.20E-05	(242.0)	7.51E-07	(25.0)	0.00E+00	5.53E-06
EE-C5CD300A-PLG	20	7.20E-04	(112.5)	6.87E-07	(26.0)	0.00E+00	6.52E-06
C08G01P-PMS-LF	26	1.10E-03	(103.0)	6.59E-07	(27.0)	0.00E+00	5.62E-06
AP040X2-R00-LFD	82	2.00E-02	( 30.0)	6.14E-07	(28.5)	0.00E+00	4.99E-06
AP039X2-R00-LFD	82	2.00E-02	( 30.0)	6.14E-07	(28.5)	0.00E+00	4.99E-06
C20G01F-PLG-LF	25	5.80E-04	(123.0)	6.03E-07	(30.0)	0.00E+00	6.91E-06
SUR-02A-R	1076	9.30E-02	( 16.0)	5.94E-07	(31.0)	0.00E+00	1.14E-06
RHRC02AA-P-UJM	26	3.00E-03	( 53.0)	5.72E-07	(32.5)	0.00E+00	5.21E-06
LC5C002A-P-UJM	26	3.00E-03	( 53.0)	5.72E-07	(32.5)	0.00E+00	5.21E-06
RHRC01AX-HTX-LFB	26	6.20E-03	( 42.5)	5.70E-07	(34.0)	0.00E+00	5.14E-06
1E8233A-BCO-LF	12	5.00E-04	(142.0)	5.63E-07	(36.0)	0.00E+00	4.09E-06
1E8413A-S00-LF	12	5.00E-04	(142.0)	5.63E-07	(36.0)	0.00E+00	4.09E-06
1E8412A-BCO-LF	12	5.00E-04	(142.0)	5.63E-07	(36.0)	0.00E+00	4.09E-06
RHRC02AA-PMS-LF	18	1.10E-03	(103.0)	5.57E-07	(38.0)	0.00E+00	4.87E-06
C08G01P-PMS-CC	17	2.50E-03	( 77.0)	5.53E-07	(39.0)	0.00E+00	4.78E-06
C08G01P-P-UJM	17	3.00E-03	( 55.0)	3.52E-07	(40.0)	0.00E+00	4.76E-06
DL2A-G-UJM	41	6.00E-03	( 44.5)	5.51E-07	(41.0)	0.00E+00	4.72E-06
HWVU1CA-FMS-CC	15	2.50E-03	( 77.0)	5.39E-07	(42.5)	0.00E+00	4.76E-06
RHRC01AA-S00-CC	15	2.50E-03	( 77.0)	5.39E-07	(42.5)	0.00E+00	4.76E-06
RHRC02AA-P-NDUJM	15	3.00E-03	( 55.0)	5.39E-07	(44.0)	0.00E+00	4.74E-06
NNAVY01AX-ACK-LFI	11	8.40E-04	(106.5)	5.27E-07	(45.0)	0.00E+00	4.35E-06

DG0V01CA-RUM-0	16	1.40E-03 ( 96.5)	5.22E-07 ( 46.0)	0.00E+00	4.02E-06
DG0V01YA-MCC-LF	7	3.07E-04 (178.5)	5.20E-07 ( 48.0)	0.07E+00	3.69E-06
DG0V02YA-MOO-LF	7	3.00E-04 (178.5)	5.23E-07 ( 48.0)	0.00E+00	3.69E-06
DG0V03YA-MCC-LF	7	3.00E-04 (178.5)	5.20E-07 ( 48.0)	0.00E+00	3.69E-06
EE-C2D601F-PLG	26	7.20E-04 (112.5)	5.17E-07 ( 50.0)	0.00E+00	4.39E-06
CSEF088A-VCC-LF	10	5.00E-04 (142.0)	5.15E-07 ( 52.0)	0.00E+00	4.19E-06
RHR01AA-B00-LF	10	5.00E-04 (142.0)	5.15E-07 ( 52.0)	0.00E+00	4.19E-06
RHR48AA-V00-LF	10	5.00E-04 (142.0)	5.15E-07 ( 52.0)	0.00E+00	4.19E-06
CSCD300B-PLG-LF	32	1.20E-03 ( 99.0)	4.99E-07 ( 57.0)	0.00E+00	3.94E-06
1E8413A-B00-CC	12	2.50E-03 ( 77.0)	4.99E-07 ( 57.0)	0.00E+00	3.94E-06
D0V-M00-CDM-CC	12	2.50E-03 ( 77.0)	4.99E-07 ( 57.0)	0.00E+00	3.94E-06
1E8233A-BCC-AS	12	2.50E-03 ( 77.0)	4.99E-07 ( 57.0)	0.00E+00	3.94E-06
1E8412A-BCC-CC	12	2.50E-03 ( 77.0)	4.99E-07 ( 57.0)	0.00E+00	3.94E-06
DG0V01CA-FMS-CC	12	2.50E-03 ( 77.0)	4.94E-07 ( 60.0)	0.00E+00	3.94E-06
DG2V02FX-KLN-LFB	22	5.80E-04 (123.0)	4.62E-07 ( 61.0)	0.00E+00	1.63E-06
SUR-023-R	263	8.50E-02 ( 17.0)	4.57E-07 ( 62.0)	0.00E+00	5.60E-06
C2D601P-PMS-LF	25	1.10E-03 (103.0)	4.54E-07 ( 63.0)	0.00E+00	3.22E-06
CCB0G61P-BCC-LF	5	9.40E-05 (228.0)	4.54E-07 ( 63.0)	0.00E+00	3.22E-06
RHR501AX-STR	5	1.10E-04 (210.0)	4.54E-07 ( 64.0)	0.00E+00	3.21E-06
DG0-GEN-LF-FTR	99	1.90E-02 ( 40.5)	4.47E-07 ( 65.0)	0.00E+00	3.09E-06
DG0-GEN-LF-FTR	6	5.00E-04 (142.0)	4.46E-07 ( 66.0)	0.00E+00	3.56E-06
HWY01CA-F-UUM	6	5.40E-04 (127.5)	4.46E-07 ( 67.0)	0.00E+00	3.56E-06
HWY01CA-FMS-LF	6	5.40E-04 (127.5)	4.44E-07 ( 68.0)	0.00E+00	3.17E-06
DG0-GEN-LF-FTS	59	2.50E-02 ( 19.5)	4.44E-07 ( 68.0)	0.00E+00	3.28E-06
RHR01AX-H-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
SCSF06AA-V-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF65AA-N-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF55AX-R-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF87AA-V-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF48AA-V-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF51AA-N-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
PC128AAX-A00-LFO	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
CSCF008A-V-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
HWY01AX-A-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
CSCD300A-S-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF47AA-V-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF50AA-S-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF74AA-V-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
C0D601F-S-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF64AA-V-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
RHRF88AX-R-UUM	5	3.00E-04 (178.5)	4.36E-07 ( 77.0)	0.00E+00	3.28E-06
DG0V01YA-M-UUM	5	5.00E-04 (142.0)	4.20E-07 ( 87.5)	0.00E+00	2.75E-06
DG0V01CA-F-UUM	5	5.00E-04 (142.0)	4.20E-07 ( 87.5)	0.00E+00	2.75E-06
DG0V02YA-M-UUM	5	5.00E-04 (142.0)	4.20E-07 ( 87.5)	0.00E+00	2.75E-06
DG0V03YA-M-UUM	5	5.00E-04 (142.0)	4.20E-07 ( 87.5)	0.00E+00	2.75E-06
DG0V01CA-FMS-LF	36	2.80E-03 ( 63.5)	4.13E-07 ( 91.0)	0.00E+00	3.06E-06
DG0-GEN-CC-FTR	36	3.70E-03 ( 46.5)	4.13E-07 ( 92.0)	0.00E+00	3.06E-06
1E8235YA-BCC-LF	4	7.20E-05 (242.0)	4.11E-07 ( 94.5)	0.00E+00	2.39E-06
HWY001X-BCC-LF	4	7.20E-05 (242.0)	4.11E-07 ( 94.5)	0.00E+00	2.39E-06
1E8352X-BCC-LF	4	7.20E-05 (242.0)	4.11E-07 ( 94.5)	0.00E+00	2.39E-06
1E81Y13X-BCC	4	7.20E-05 (242.0)	4.11E-07 ( 94.5)	0.00E+00	2.39E-06
1E818A18CP6-LFOO	4	3.00E-04 (178.5)	4.11E-07 ( 97.5)	0.00E+00	2.39E-06

AP251X2CP4-LFOO	4	3.00E-04 (178.5)	4.11E-07 ( 97.5)	0.00E+00	2.39E-06
CRD1-REALIGN-0E	52	2.10E-03 ( 91.5)	3.93E-07 ( 99.0)	0.00E+00	6.02E-06
EE-CSCD300B-PLG	16	7.20E-04 (112.5)	3.46E-07 (100.0)	0.00E+00	2.62E-06
RHRH01BX-HTX-LFB	24	6.20E-03 ( 42.5)	3.42E-07 (101.0)	0.00E+00	5.13E-06
RHRG02BB-P-UUM	21	3.00E-03 ( 55.0)	3.41E-07 (102.0)	0.00E+00	4.95E-06
RHRG02BB-FMS-LF	16	1.10E-03 (103.0)	3.37E-07 (103.0)	0.00E+00	4.56E-06
DG2A-GEA-LF-FTR	92	1.90E-02 ( 40.5)	3.35E-07 (104.0)	0.00E+00	2.31E-06
DG2A-GEN-LF-FTS	92	2.50E-02 ( 19.5)	3.33E-07 (105.0)	0.00E+00	2.32E-06
LZD001P-FMS-CC	16	2.50E-03 ( 77.0)	3.30E-07 (106.0)	0.00E+00	4.94E-05
CZD001P-V-UUM	16	3.00E-03 ( 55.0)	3.30E-07 (107.0)	0.00E+00	4.90E-06
RHRB01BB-800-CC	14	2.50E-03 ( 77.0)	3.17E-07 (108.5)	0.00E+00	4.92E-06
SEVY03CB-FMS-CC	14	2.50E-03 ( 77.0)	3.17E-07 (108.5)	0.00E+00	4.92E-06
RHRG02BB-P-NDUJM	14	3.00E-03 ( 55.0)	3.17E-07 (110.0)	0.00E+00	4.88E-06
RHRB01BB-800-LF	10	5.00E-04 (142.0)	3.13E-07 (111.0)	0.00E+00	4.34E-06
1E82348-BCC-LF	12	5.00E-04 (142.0)	3.08E-07 (112.0)	0.00E+00	2.79E-06
DG2A-GEN-CC-FTS	37	3.70E-03 ( 46.5)	3.04E-07 (113.0)	0.00E+00	2.19E-06
RHRF488B-V00-LF	9	5.00E-04 (142.0)	3.04E-07 (114.5)	0.00E+00	4.33E-06
CSCF068B-VCC-LF	9	5.00E-04 (142.0)	3.04E-07 (114.5)	0.00E+00	4.33E-06
DG2A-GEN-CC-FTR	33	2.80E-03 ( 63.5)	3.02E-07 (116.0)	0.00E+00	2.09E-06
SEVY03AX-ACK-LFI	9	8.40E-04 (106.5)	3.01E-07 (117.0)	0.00E+00	4.30E-06
1E84258-BCC-LF	11	5.00E-04 (142.0)	2.98E-07 (119.0)	0.00E+00	2.43E-06
1E84258-800-LF	11	5.00E-04 (142.0)	2.98E-07 (119.0)	0.00E+00	2.43E-06
1E84228-BCC-LF	11	5.00E-04 (142.0)	2.98E-07 (119.0)	0.00E+00	2.43E-06
1E82368-B-UUM	2	1.00E-04 (219.5)	2.74E-07 (121.0)	0.00E+00	1.42E-06
DG2V11YB-MCC-LF	6	3.00E-04 (178.5)	2.56E-07 (123.0)	0.00E+00	2.27E-06
DG2V10YB-M00-LF	6	3.00E-04 (178.5)	2.56E-07 (123.0)	0.00E+00	2.27E-06
DG2V09YB-MCC-LF	6	3.00E-04 (178.5)	2.56E-07 (123.0)	0.00E+00	2.27E-06
ZD51PK18-R00-LFO	6	5.00E-04 (142.0)	2.43E-07 (125.0)	0.00E+00	2.99E-06
CRB2DG1P-BCC-LF	4	8.40E-05 (220.0)	2.42E-07 (126.0)	0.00E+00	3.29E-06
RHR301BX-STR	4	1.00E-04 (210.0)	2.42E-07 (127.0)	0.00E+00	3.28E-06
SEVY03CB-F-UUM	5	5.00E-04 (142.0)	2.34E-07 (128.0)	0.00E+00	2.99E-06
SEVY03CB-FMS-LF	5	5.40E-04 (127.5)	2.34E-07 (129.0)	0.00E+00	2.99E-06
SEVY03AX-A-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
CSCF068B-V-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRH01BX-H-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF888X-R-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF878B-V-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF748B-V-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF658B-N-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF648B-V-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF608B-S-UUM	4	3.00E-04 (176.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF558X-R-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF518B-N-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF488B-V-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRF478B-V-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
ZD001PSC-000-LFO	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
ZD001PK18CA-LFOO	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
CSCF068B-V-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
CSCD300B-S-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
CZD001F-S-UUM	4	3.00E-04 (178.5)	2.24E-07 (138.5)	0.00E+00	2.87E-06
RHRFUP2X-FUS-LF	1	7.20E-05 (242.0)	2.23E-07 (148.5)	0.00E+00	2.33E-06
RHRFUP1X-FUS-LF	1	7.20E-05 (242.0)	2.23E-07 (140.5)	0.00E+00	2.33E-06

DG2V03CB-FM-CC	12	2.50E-03 ( 77.0)	2.19E-07 (152.5)	0.00E+00	1.63E-06
1EB234B-BCC-CC	12	2.50E-03 ( 77.0)	2.19E-07 (152.5)	0.00E+00	1.63E-06
CAV-M00-COM-CC	12	2.50E-03 ( 77.0)	2.19E-07 (152.5)	0.00E+00	1.63E-06
1EB425B-BCC-CC	12	2.50E-03 ( 77.0)	2.19E-07 (152.5)	0.00E+00	1.63E-06
1EB423B-B00-CC	12	2.50E-03 ( 77.0)	2.19E-07 (152.5)	0.00E+00	1.63E-06
1EB422B-BCC-CC	12	2.50E-03 ( 77.0)	2.19E-07 (152.5)	0.00E+00	1.63E-06
SEVB001X-B00-LF	3	7.20E-05 (242.0)	1.99E-07 (156.5)	0.00E+00	1.63E-06
RHRF988X-X0C-LF	3	1.10E-04 (210.0)	1.99E-07 (158.5)	0.00E+00	2.35E-06
RHRF478B-Y0C-LF	3	1.10E-04 (210.0)	1.99E-07 (158.5)	0.00E+00	2.35E-06
RHRF036B-V0C-LF	3	1.10E-04 (210.0)	1.99E-07 (158.5)	0.00E+00	2.35E-06
RHRF048B-V0C-LF	3	1.10E-04 (210.0)	1.99E-07 (158.5)	0.00E+00	2.35E-06
1EK18ARC-R00-LFO	5	5.80E-04 (123.0)	1.53E-07 (161.0)	0.00E+00	7.35E-06
DG2V03CB-F-UUM	3	5.00E-04 (142.0)	1.34E-07 (163.5)	0.00E+00	7.61E-07
DG2V11YB-M-UUM	3	5.00E-04 (142.0)	1.34E-07 (163.5)	0.00E+00	7.04E-07
DG2V101B-M-UUM	3	5.00E-04 (142.0)	1.34E-07 (163.5)	0.00E+00	7.04E-07
DG2V091B-M-UUM	3	5.00E-04 (142.0)	1.34E-07 (163.5)	0.00E+00	7.04E-07
DG2V03CB-FMS-LF	3	5.40E-04 (127.5)	1.34E-07 (166.0)	0.00E+00	7.04E-07
3AX2803X-B00-LF	2	7.20E-05 (242.0)	1.26E-07 (169.0)	0.00E+00	6.63E-07
DAVB002X-B00-LF	2	7.20E-05 (242.0)	1.26E-07 (169.0)	0.00E+00	6.63E-07
DAVB001X-B00-LF	2	7.20E-05 (242.0)	1.26E-07 (169.0)	0.00E+00	6.63E-07
1EB36X3X-B00-LF	2	7.20E-05 (242.0)	1.26E-07 (169.0)	0.00E+00	6.63E-07
1EB2Y14X-B00	2	7.20E-05 (242.0)	1.26E-07 (169.0)	0.00E+00	6.63E-07
1EAP270-DVC-LFC	2	9.60E-05 (224.5)	1.26E-07 (174.5)	0.00E+00	6.63E-07
1EAP271-DVC-LFC	2	9.60E-05 (224.5)	1.26E-07 (174.5)	0.00E+00	6.63E-07
RHRF318X-CCC-LF	2	1.00E-04 (219.5)	1.26E-07 (174.5)	0.00E+00	6.63E-07
RHRF31AX-CCC-LF	2	1.00E-04 (219.5)	1.26E-07 (174.5)	0.00E+00	6.63E-07
C2DGF002-CCC-LF	2	1.00E-04 (219.5)	1.26E-07 (174.5)	0.00E+00	6.63E-07
C0DGG002-CCC-LF	2	1.00E-04 (219.5)	1.26E-07 (174.5)	0.00E+00	6.63E-07
RHRF98AX-X0C-LF	2	1.10E-04 (210.0)	1.26E-07 (179.5)	0.00E+00	6.63E-07
RHRF47AA-V0C-LF	2	1.10E-04 (210.0)	1.26E-07 (179.5)	0.00E+00	6.63E-07
RHRF04AA-V0C-LF	2	1.10E-04 (210.0)	1.26E-07 (179.5)	0.00E+00	6.63E-07
RHRF03AA-V0C-LF	2	1.10E-04 (210.0)	1.26E-07 (179.5)	0.00E+00	6.63E-07
DAVM00COM-CC-UUM	2	1.50E-04 ( 73.5)	1.26E-07 (182.5)	0.00E+00	6.63E-07
D0VM00COM-CC-UUM	2	1.50E-04 (203.5)	1.26E-07 (182.5)	0.00E+00	6.63E-07
AP04DX2CPT-LF00	2	3.00E-04 (178.5)	1.26E-07 (185.0)	0.00E+00	6.63E-07
AP039X2CP4-LF00	2	3.00E-04 (178.5)	1.26E-07 (185.0)	0.00E+00	6.63E-07
1EK18ABC06-LF00	2	3.00E-04 (178.5)	1.26E-07 (185.0)	0.00E+00	6.63E-07
RA-7-1-27H	1	2.10E-03 ( 91.5)	1.05E-07 (137.0)	0.00E+00	1.27E-06
LAK98RCB-R00-LFO	16	2.00E-02 ( 30.0)	8.47E-08 (188.0)	0.00E+00	8.1E-07
LAK188RB-R00-LFO	15	2.00E-02 ( 30.0)	8.47E-08 (189.0)	0.00E+00	8.88E-07
1EB274X-B00	1	7.20E-05 (242.0)	7.36E-08 (190.0)	0.00E+00	7.70E-07
LAS44BX-000-LFO	1	1.10E-04 (210.0)	7.36E-08 (191.0)	0.00E+00	7.70E-07
LAK36RCXCP1-LF00	1	6.60E-04 (119.0)	7.36E-08 (193.0)	0.00E+00	7.70E-07
LAK288XCP4-LF00	1	6.60E-04 (119.0)	7.36E-08 (193.0)	0.00E+00	7.70E-07
AP04DX4CP1-LF00	1	6.60E-04 (119.0)	7.36E-08 (193.0)	0.00E+00	7.70E-07
LAY9BCP3-LF00	1	2.90E-03 ( 61.0)	7.34E-08 (195.5)	0.00E+00	7.61E-07
LAK188CP1-LF00	1	2.90E-03 ( 61.0)	7.34E-08 (195.5)	0.00E+00	7.61E-07
RHRC003B-P-UUM	1	3.00E-03 ( 55.0)	7.34E-08 (197.0)	0.00E+00	7.69E-07
LAK36RCB-R00-LFO	1	3.40E-03 ( 48.0)	7.34E-08 (198.0)	0.00E+00	7.70E-07
2C11C001B-P-UUM	12	3.00E-03 ( 55.0)	6.55E-08 (199.0)	0.00E+00	6.79E-07
LAK938RC-R00-LFO	13	2.00E-02 ( 30.0)	6.44E-08 (200.0)	0.00E+00	6.09E-07
2C11C001B-B00-CC	11	2.50E-03 ( 77.0)	6.41E-08 (201.0)	0.00E+00	6.79E-07

2C11C0018-PMS-L	10	1.10E-03 (103.0)	6.28E-08 (202.0)	0.00E+00	6.72E-07
2C11F0018-RCO-LF	10	1.20E-03 ( 99.0)	6.28E-08 (203.0)	0.00E+00	6.73E-07
LAK146RC-RCO-LFO	9	2.00E-02 ( 30.0)	5.75E-08 (204.0)	0.00E+00	4.45E-07
CSCB068X-RCO-LF	1	8.40E-05 (228.0)	5.61E-08 (205.0)	0.00E+00	4.44E-07
RHRC003B-RUM-1	1	3.70E-04 (155.0)	5.61E-08 (206.0)	0.00E+00	4.44E-07
PHRF488B-VOC-CC	1	2.50E-03 ( 77.0)	5.60E-08 (207.5)	0.00E+00	4.43E-07
CSCF068B-VCC-CC	1	2.50E-03 ( 77.0)	5.60E-08 (207.5)	0.00E+00	4.43E-07
LAK9BCP3-LFCC	1	2.90E-03 ( 61.0)	5.59E-08 (209.0)	0.00E+00	4.42E-07
1EDC2DEP-FRP-27H	8	3.20E-03 ( 49.5)	4.90E-08 (210.0)	0.00E+00	6.21E-07
RA-9-27H	484	4.60E-01 ( 13.0)	4.85E-08 (211.0)	0.00E+00	3.05E-07
2C11C0018-BOC-LF	6	5.00E-04 (142.0)	4.72E-08 (212.0)	0.00E+00	6.39E-07
LPCI-PMS-CM	8	2.50E-03 ( 77.0)	4.27E-08 (213.0)	0.00E+00	4.31E-07
1EB235A-S-UHM	1	1.00E-04 (219.5)	3.27E-08 (214.0)	0.00E+00	1.47E-07
RA-1-3-27H	11	2.61E-03 ( 65.0)	3.23E-08 (215.0)	0.00E+00	1.22E-07
2C11C0018-PMS-LF	4	7.20E-04 (112.5)	2.55E-08 (216.0)	0.00E+00	2.93E-07
PSV01FBX-STX-LF	5	7.20E-04 (112.5)	2.23E-08 (217.0)	0.00E+00	8.52E-08
EE-MOP-PSM-BC-R	86	3.30E-01 ( 14.0)	2.04E-08 (218.0)	0.00E+00	1.89E-07
RA-10-1-27H	2	2.10E-03 ( 91.5)	1.53E-08 (219.0)	0.00E+00	6.83E-08
D0V8102X-BCO-LF	22	2.00E-02 ( 30.0)	1.49E-08 (220.0)	0.00E+00	6.27E-08
D0V8202X-BCO-LF	20	2.00E-02 ( 30.0)	1.46E-08 (222.0)	0.00E+00	6.27E-08
D0V8201X-BCO-LF	20	2.00E-02 ( 30.0)	1.46E-08 (222.0)	0.00E+00	6.27E-08
D0V8101X-BCO-LF	20	2.00E-02 ( 30.0)	1.46E-08 (222.0)	0.00E+00	6.27E-08
2WR02MA-STR-LF	3	7.20E-04 (112.5)	1.34E-08 (224.5)	0.00E+00	5.11E-08
2WR01PA-PMS-FR	3	7.20E-04 (112.5)	1.34E-08 (224.5)	0.00E+00	5.11E-08
LPCI-MOV-DM2	5	2.50E-03 ( 77.0)	9.73E-09 (226.5)	0.00E+00	5.20E-08
LPCI-MOV-CM1	5	2.50E-03 ( 77.0)	9.73E-09 (226.5)	0.00E+00	5.20E-08
2WR01PB-PMS-FR	2	7.20E-04 (112.5)	8.92E-09 (228.0)	0.00E+00	3.41E-08
DG0M0D-RUM-0	2	1.40E-03 ( 96.5)	5.71E-09 (229.0)	0.00E+00	9.54E-09
2WK02MB-STR-LF	1	7.20E-04 (112.5)	1.46E-09 (230.0)	0.00E+00	1.70E-08
OPFAIL-VENT-2H	2	2.10E-03 ( 91.5)	3.93E-09 (231.0)	0.00E+00	2.76E-08
RA-HSLDV 1-2H	2	2.10E-03 ( 91.5)	3.62E-09 (232.0)	0.00E+00	2.33E-08
AP037X3-RVO-LFO	9	2.00E-02 ( 30.0)	3.21E-09 (233.0)	0.00E+00	1.18E-08
AP040X3-ROG-LFO	8	2.00E-02 ( 30.0)	2.77E-09 (234.0)	0.00E+00	9.99E-09
LAK9ARCA-ROG LFO	10	2.00E-02 ( 30.0)	2.62E-09 (235.5)	0.00E+00	2.59E-08
LAK10RCA-ROO-LFO	10	2.00E-02 ( 30.0)	2.62E-09 (235.5)	0.00E+00	2.59E-08
LAK19ARA-ROO-LFO	9	2.00E-02 ( 30.0)	2.46E-09 (237.0)	0.00E+00	2.37E-08
LAK93ARC-ROO-LFO	6	2.00E-02 ( 30.0)	1.65E-09 (238.5)	0.00E+00	9.55E-09
LAK14ARC-RCO-LFO	6	2.00E-02 ( 30.0)	1.65E-09 (238.5)	0.00E+00	9.55E-09
LPCI-MOV-BETA	10	3.00E-02 ( 18.0)	1.58E-09 (240.0)	0.00E+00	7.02E-09
LAK70BRB-ROO-LFO	1	2.00E-02 ( 30.0)	1.44E-09 (241.5)	0.00E+00	5.60E-09
LAK2BRCE-RCO-LFO	1	2.00E-02 ( 30.0)	1.44E-09 (241.5)	0.00E+00	5.60E-09
LPCI-BETA	8	1.10E-01 ( 15.0)	8.55E-10 (243.0)	0.00E+00	5.59E-09
SCSF068B-DENER	33	1.00E-00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
SCSF06AA-DENER	41	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
RA-NONE	212	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
NOFLOW-SPC-BSX	9	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
NOFLOW-SPC-ASX	6	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
NOFLOW-RHR-81	7	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
NOFLOW-RHR-A1	7	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
NOFLOW-CSS-B7A	9	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
NOFLOW-CSS-A7A	6	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00
FLOW-RHR-B3	28	1.00E+00 ( 6.0)	0.00E+00 (249.0)	0.00E+00	0.00E+00



FLOW-RHR-A3  
CONT-LEAK

21	1.00E+00	( 6.0)	0.00E+00	(249.0)
1339	7.50E-01	( 12.0)	-1.04E-07	(255.0)
			-1.21E-06	0.00E+00

SEQUENCE 124  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y .05/TE .05*	Y .95/TE .95*
COMT-LE-K	1339	7.50E-01 (12.0)	73.9 (1.0)	NA	0.25
SUR-024-R	1076	9.30E-02 (16.0)	55.9 (2.0)	NA	0.79
SUR-023-R	263	8.50E-02 (17.0)	53.6 (3.0)	NA	0.59
RHRFUP1X-FUS-LF	1	7.20E-05 (242.0)	4.9 (4.5)	NA	1.00
RHRFUP2X-FUS-LF	1	7.20E-05 (242.0)	4.9 (4.5)	NA	1.00
RHR003B-RUM-1	1	3.30E-04 (155.0)	3.6 (6.0)	NA	1.00
RHR01AY-R-UUM	5	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
SEVY03AX-A-UUM	4	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
CSD0300A-S-UUM	5	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
C00G01F-S-UUM	5	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
C20G01F-S-UUM	4	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
HWY01AX-A-UUM	5	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
RHR01BX-R-UUM	4	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
CSC0300B-S-UUM	4	3.00E-04 (178.5)	3.6 (10.5)	NA	1.01
Z0G1PK1B-R00-LFO	6	5.80E-04 (142.0)	3.6 (15.0)	NA	1.00
C20G01F-PLG-LF	25	5.80E-04 (123.0)	3.6 (17.5)	NA	1.00
C00G01F-PLG-LF	25	5.80E-04 (123.0)	3.6 (17.5)	NA	1.00
DG0V01FX-KLN-LFB	23	5.80E-04 (123.0)	3.6 (17.5)	NA	1.00
DG2V02FX-KLN-LFB	22	5.80E-04 (123.0)	3.6 (17.5)	NA	1.00
RHRF03BB-VOC-LF	3	1.10E-04 (210.0)	3.4 (23.5)	NA	1.00
RHRF04BB-VOC-LF	3	1.10E-04 (210.0)	3.4 (23.5)	NA	1.00
RHRF05BA-VOC-LF	2	1.10E-04 (210.0)	3.4 (23.5)	NA	1.00
RHRF06AA-VOC-LF	2	1.10E-04 (210.0)	3.4 (23.5)	NA	1.00
RHRF07AA-VOC-LF	2	1.10E-04 (210.0)	3.4 (23.5)	NA	1.00
RHRF08AA-VOC-LF	3	1.10E-04 (210.0)	3.4 (23.5)	NA	1.00
RHRF09BA-VOC-LF	2	1.10E-04 (210.0)	3.4 (23.5)	NA	1.00
D0VB101X-BCO-LF	20	2.00E-02 (30.0)	3.4 (29.5)	NA	1.00
D0VB102X-BCO-LF	22	2.00E-02 (30.0)	3.4 (29.5)	NA	1.00
D0VB202X-BCO-LF	20	2.00E-02 (30.0)	3.4 (29.5)	NA	1.00
D0VB201X-BCO-LF	20	2.00E-02 (30.0)	3.4 (29.5)	NA	1.00
CSD0300B-PLG-LF	32	1.20E-03 (99.0)	3.4 (32.5)	NA	0.99
CSD0300A-PLG-LF	37	1.20E-03 (99.0)	3.4 (32.5)	NA	0.99
DG0V02YA-MCC-LF	7	3.00E-04 (178.5)	3.2 (36.5)	NA	0.99
DG2V01YB-MCC-LF	6	3.00E-04 (178.5)	3.2 (36.5)	NA	0.99
DG2V11YB-MCC-LF	6	3.00E-04 (178.5)	3.2 (36.5)	NA	0.99
DG0V03YA-MCC-LF	7	3.00E-04 (178.5)	3.2 (36.5)	NA	0.99
DG0V01YA-MCC-LF	7	3.00E-04 (178.5)	3.2 (36.5)	NA	0.99
DG2V09YB-MCC-LF	6	3.00E-04 (178.5)	3.2 (36.5)	NA	0.99
DG0V01CA-RUM-0	16	1.40E-03 (96.5)	2.9 (40.5)	NA	1.01
DG0V00-RUM-0	2	1.40E-03 (96.5)	2.9 (40.5)	NA	1.01
LAS448X-0CD-LFO	1	1.10E-04 (210.0)	2.8 (42.0)	NA	1.00
RHR7Y18X-STR	4	1.10E-04 (210.0)	2.7 (43.5)	NA	1.00
RH F 1AX-STR	5	1.10E-04 (210.0)	2.7 (43.5)	NA	1.00
LAK38RCB-RCL-LFO	1	3.40E-03 (48.0)	2.7 (45.0)	NA	1.00

LPCI-MOV-BETA	10	3.00E-02 ( 18.0)				
RA-1-3-27H	11	2.60E-03 ( 65.0)	2.6	( 46.0)	NA	1.00
AP040X4CP1-LFCO	1	6.60E-04 (119.0)	2.6	( 47.0)	NA	1.00
LAK3BRXCXCP1-LFCO	1	6.60E-04 (119.0)	2.6	( 49.0)	NA	1.00
LAK28BXCP4-LFCO	1	6.60E-04 (119.0)	2.6	( 49.0)	NA	1.00
DG0-GEN-CC-FTR	36	2.80E-03 ( 63.5)	2.3	( 51.5)	NA	1.01
DG2A-GEN-CC-FTR	33	2.80E-03 ( 63.5)	2.3	( 51.5)	NA	1.01
1EDC2DEP-FRP-27H	8	3.20E-03 ( 49.5)	2.2	( 53.5)	NA	1.45
RA-8-27H	996	3.20E-03 ( 49.5)	2.2	( 53.5)	NA	1.45
CCB00G1P-BCO-LF	5	8.40E-05 (228.0)	2.1	( 57.0)	NA	1.00
1EB16211-BCO	7	8.40E-05 (228.0)	2.1	( 57.0)	NA	1.00
CSCB068X-BCO-LF	1	8.40E-05 (228.0)	2.1	( 57.0)	NA	1.00
1EB16212-BCO	10	8.40E-05 (228.0)	2.1	( 57.0)	NA	1.00
CCB20G1P-BCO-LF	4	8.40E-05 (228.0)	2.1	( 57.0)	NA	1.00
NWVY01AX-ACX-LF1	11	8.40E-04 (106.5)	2.0	( 60.5)	NA	0.99
SEVY03AX-ACX-LF1	9	8.40E-04 (106.5)	2.0	( 60.5)	NA	0.99
2DG01PK18CA-LFOO	4	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
1EK18ABCP6-LFOO	2	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
1EK18A1BCP6-LFOO	4	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
2DG01PSC-000-LFO	4	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
AP039X2CP4-LFOO	2	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
AP040X2CP7-LFOO	2	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
AP251X2CP4-LFOO	4	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
PC02AAAX-000-LFO	5	3.00E-04 (178.5)	1.9	( 65.5)	NA	1.01
1EK18ARC-000-LFO	5	5.80E-04 (123.0)	1.9	( 70.0)	NA	1.00
1EB211YX-BCO-LF	5	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB235YA-BCO-LF	4	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB36Y1X-BCO-LF	5	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB36YB-BCO-LF	9	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB36XB-BCO-LF	10	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB36X3X-BCO-LF	2	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB35Y2X-BCO-LF	4	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB2Y4X-BCO	1	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
DAVB001X-BCO-LF	2	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
DAVB002X-BCO-LF	2	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB2Y22X-BCO	3	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
NWVB001X-BCO-LF	4	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB2Y14X-BCO	2	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB236B-BCO-LF	47	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB212YX-BCO-LF	3	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
SEVB001X-BCO-LF	3	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
36X2803X-BCO-LF	2	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB1Y22X-BCO	5	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB1Y13X-BCO	4	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB235XA-BCO-LF	5	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
1EB235A-BCO-LF	10	7.20E-05 (242.0)	1.8	( 81.0)	NA	1.38
DG0-GEN-CC-FTS	36	3.70E-03 ( 46.5)	1.8	( 92.5)	NA	1.04
DG2A-GEN-CC-FTS	35	3.70E-03 ( 46.5)	1.8	( 92.5)	NA	1.04
1EBAT2BX-ZBT-LF	7	2.40E-05 (254.5)	1.6	( 94.5)	NA	1.00
1EBAT2AX-ZBT-LF	8	2.40E-05 (254.5)	1.6	( 94.5)	NA	1.00
RA-2-11-27H	35	1.60E-03 ( 95.0)	1.6	( 96.0)	NA	0.95
1EB235A-B-UUM	1	1.00E-04 (219.5)	1.3	( 98.5)	NA	1.01

1EB236B-B-UUM	2	1.00E-04	(219.5)	1.3	( 98.5)	NA	1.01
1E42YB-V-UUM	21	1.00E-04	(219.5)	1.3	( 98.5)	NA	1.01
1E41YA-V-UUM	32	1.00E-04	(219.5)	1.3	( 98.5)	NA	1.01
AP040X2-R00-LFO	82	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
AP039X2-R00-LFO	82	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
AP037X3-R00-LFO	9	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK93ARC-R00-LFO	6	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK9BRCB-R00-LFO	16	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK9A9CA-R00-LFO	10	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK93BRC-R00-LFO	13	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK70BRB-R00-LFO	1	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK2BRCB-R00-LFO	1	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK18BRB-R00-LFO	15	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK12BARA-R00-LFO	9	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK14BRC-R00-LFO	9	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK14ARC-R00-LFO	6	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
LAK102CA-R00-LFO	10	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
AP040X3-R00-LFO	8	2.00E-02	( 30.0)	1.2	(108.0)	NA	1.21
1EB234B-BCC-LF	12	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
1EB233A-BCC-LF	12	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
RHRB01AA-B00-LF	10	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
2C11C001B-B00-LF	6	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
RHRB01BB-B00-LF	10	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
1EB425B-BCC-LF	11	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
1EB423B-B00-LF	11	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
1EB422B-BCC-LF	11	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
1EB412A-BCC-LF	12	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
1EB413A-B00-LF	12	5.00E-04	(142.0)	1.1	(120.5)	NA	1.02
DG0-GEN-LF-FTR	99	1.90E-02	( 40.5)	1.1	(126.5)	NA	1.09
DG2A-GEN-LF-FTR	92	1.90E-02	( 40.5)	1.1	(126.5)	NA	1.09
NWVY01CA-FMS-LF	6	5.40E-04	(127.5)	1.0	(129.5)	NA	1.00
SEVY03CB-FMS-LF	5	5.40E-04	(127.5)	1.0	(129.5)	NA	1.00
DG0V01CA-FMS-LF	5	5.40E-04	(127.5)	1.0	(129.5)	NA	1.00
DG2V03CB-FMS-LF	3	5.40E-04	(127.5)	1.0	(129.5)	NA	1.00
RLOSP	74	2.10E-04	(202.0)	0.8	(132.0)	NA	1.02
2C11F001B-R00-LF	10	1.20E-03	( 99.0)	0.5	(133.0)	NA	1.00
1EAP270-DVC-LFC	2	9.60E-05	(224.5)	0.5	(134.5)	NA	1.00
1EAP271-DVC-LFC	2	9.60E-05	(224.5)	0.5	(134.5)	NA	1.00
DG2V03CB-FMS-CC	12	2.50E-03	( 77.0)	0.0	(189.5)		
SEVY03CB-FMS-CC	14	2.50E-03	( 77.0)	0.0	(189.5)		
DG2V03CB-F-UUM	3	5.00E-04	(142.0)	0.0	(189.5)		
SEVY03CB-F-UUM	5	5.00E-04	(142.0)	0.0	(189.5)		
DG2A-GEN-LF-FTS	92	2.50E-02	( 19.5)	0.0	(189.5)		
1EB413A-B00-CC	12	2.50E-03	( 77.0)	0.0	(189.5)		
SCSF06BB-V-UUM	4	3.00E-04	(178.5)	0.0	(189.5)		
SCSF06AA-V-UUM	5	3.00E-04	(178.5)	0.0	(189.5)		
RHRH01BX-HTX-LFB	24	6.20E-03	( 42.5)	0.0	(189.5)		
RHRH01AX-HTX-LFB	26	6.20E-03	( 42.5)	0.0	(189.5)		
DG2A-G-UUM	41	6.00E-03	( 44.5)	0.0	(189.5)		
DG0V03YA-M-UUM	5	5.00E-04	(142.0)	0.0	(189.5)		
RHRF82BX-R-UUM	4	3.00E-04	(178.5)	0.0	(189.5)		
RHRF87BB-V-UUM	4	3.00E-04	(178.5)	0.0	(189.5)		

DGOV02YA-H UUM	5	5.00E-04	(142.0)	0.0	(189.5)
1EB412A-BCC-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
RHRF74BB-V-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
DGOV01YA-M-UUM	5	5.00E-04	(142.0)	0.0	(189.5)
2WR02MB-STR-LF	1	7.20E-04	(112.5)	0.0	(189.5)
RHRF65AA-N-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
RHRF64BB-V-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
RHRF64AA-V-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
RHRF60BB-S-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
2WR02MA-STR-LF	3	7.20E-04	(112.5)	0.0	(189.5)
RHRF55BX-R-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
DGOV01CA-FMS-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
2WR01PB-PMS-FR	2	7.20E-04	(112.5)	0.0	(189.5)
DGOV01CA-F-UUM	5	5.00E-04	(142.0)	0.0	(189.5)
RHRF48BB-VCC-CC	1	2.50E-03	( 77.0)	0.0	(189.5)
RHRF48BB-V-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
2WR01PA-PMS-FR	3	7.20E-04	(112.5)	0.0	(189.5)
DGO-GEN-LF-FTS	99	2.50E-02	( 19.5)	0.0	(189.5)
RHRF47BB-V-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
RHRF47AA-V-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
RHRF31BX-CCC-LF	2	1.00E-04	(219.5)	0.0	(189.5)
RHRF31AX-CCC-LF	2	1.00E-04	(219.5)	0.0	(189.5)
1EB234B-BCC-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
DGO-G-UUM	41	6.00E-03	( 44.5)	0.0	(189.5)
DAVMO0COM-CC-UUM	2	1.50E-04	(203.5)	0.0	(189.5)
RHRC02BB-P-UUM	21	3.00E-03	( 55.0)	0.0	(189.5)
RHRC02BB-P-NDUUM	14	3.00E-03	( 55.0)	0.0	(189.5)
RHRC02AA-PMS-LF	18	1.10E-03	(103.0)	0.0	(189.5)
DAV-MOD-COM-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
RHRC003B-P-UUM	1	3.00E-03	( 55.0)	0.0	(189.5)
DOVMO0COM-CC-UUM	2	1.50E-04	(203.5)	0.0	(189.5)
2C11C001B-PMS-LF	10	1.10E-03	(103.0)	0.0	(189.5)
RHRB01BB-BOO-CC	14	2.50E-03	( 77.0)	0.0	(189.5)
RHRB01AA-BOO-CC	15	2.50E-03	( 77.0)	0.0	(189.5)
2C11C001B-P-UUM	12	3.00E-03	( 55.0)	0.0	(189.5)
RA-MSLDV-1-2H	2	2.10E-03	( 91.5)	0.0	(189.5)
RA-9-27H	484	4.00E-01	( 13.0)	0.0	(189.5)
DOV-MOD-COM-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
RA-7-1-27H	1	2.10E-03	( 91.5)	0.0	(189.5)
CSCF068B-VCC-LF	9	5.00E-04	(142.0)	0.0	(189.5)
2C11C001B-BOO-CC	11	2.50E-03	( 77.0)	0.0	(189.5)
1EB233A-BCC-AS	12	2.50E-03	( 77.0)	0.0	(189.5)
RA-10-1-27H	2	2.10E-03	( 91.5)	0.0	(189.5)
CSCF068B-VCC-CC	1	2.50E-03	( 77.0)	0.0	(189.5)
RA-1-1-27H	122	2.10E-03	( 91.5)	0.0	(189.5)
PSW01FBX-STX-LF	5	7.20E-04	(112.5)	0.0	(189.5)
CSCF068B-V-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
RHRC02AA-P-NDUUM	15	3.00E-03	( 55.0)	0.0	(189.5)
RHRC02AA-P-UUM	26	3.00E-03	( 55.0)	0.0	(189.5)
2C11C001A-PMS-LF	4	7.20E-04	(112.5)	0.0	(189.5)
OPFALL-VENT-2H	2	2.10E-03	( 91.5)	0.0	(189.5)
CSCF068A-VCC-LF	10	5.00E-04	(142.0)	0.0	(189.5)

RHAC02BB-PMS-LF	16	1.10E-03	(103.0)	0.0	(189.5)
NWVY01CA-FWS-CC	15	2.50E-03	( 77.0)	0.0	(189.5)
CSCF09BA-V-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
NWVY01CA-F-UUM	6	5.00E-04	(142.0)	0.0	(189.5)
LPCI-PMS-DM	8	2.50E-03	( 77.0)	0.0	(189.5)
LPCI-MOV-DM2	5	2.50E-03	( 77.0)	0.0	(189.5)
CRD1-REALIGN-OE	52	2.10E-03	( 91.5)	0.0	(189.5)
LPCI-MOV-CM1	5	2.50E-03	( 77.0)	0.0	(189.5)
LPCI-BETA	8	1.10E-01	( 15.0)	0.0	(189.5)
LC5C02A-P-UUM	26	3.00E-03	( 55.0)	0.0	(189.5)
LAK9BCP3-LF00	1	2.90E-03	( 61.0)	0.0	(189.5)
RHRF48AA-V-UUM		3.00E-04	(178.5)	0.0	(189.5)
RHRF48AA-V00-LF	10	5.00E-04	(142.0)	0.0	(189.5)
C2DGF002-CC-LF	2	1.00E-04	(219.5)	0.0	(189.5)
LAK93BCP3-LFCC	1	2.90E-03	( 61.0)	0.0	(189.5)
RHRF48BB-V00-LF	9	5.00E-04	(142.0)	0.0	(189.5)
RHRF51AA-N-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
RHRF51BB-N-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
RHRF55AX-R-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
C2DGG01P-PMS-LF	25	1.10E-03	(103.0)	0.0	(189.5)
RHRF60AA-S-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
C2DGG01P-PMS-CC	16	2.50E-03	( 77.0)	0.0	(189.5)
C2DGG01P-P-UUM	16	3.00E-03	( 55.0)	0.0	(189.5)
1ER425B-BCC-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
LAK188CP1-LF00	1	2.90E-03	( 61.0)	0.0	(189.5)
RHRF65BB-N-UUM	4	3.00E-04	(178.5)	0.0	(189.5)
RHRF74AA-V-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
C0DGG01P-P-PMS-LF	26	1.10E-03	(103.0)	0.0	(189.5)
RHRF87AA-V-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
C0DGG01P-PMS-CC	17	2.50E-03	( 77.0)	0.0	(189.5)
RHRF88AX-R-UUM	5	3.00E-04	(178.5)	0.0	(189.5)
1EB423B-800-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
C0DGG01P-P-UUM	17	3.00E-03	( 55.0)	0.0	(189.5)
EE-CSCD300B-PLG	16	7.20E-04	(112.5)	0.0	(189.5)
EE-CSCD300A-PLG	20	7.20E-04	(112.5)	0.0	(189.5)
EE-C2DGG01F-PLG	26	7.20E-04	(112.5)	0.0	(189.5)
EE-C0DGG01F-PLG	26	7.20E-04	(112.5)	0.0	(189.5)
C0DGG002-CCC-LF	2	1.00E-01	(219.5)	0.0	(189.5)
DG2V11YB-M-UUM	3	5.00E-04	(142.0)	0.0	(189.5)
1EB422B-BCC-CC	12	2.50E-03	( 77.0)	0.0	(189.5)
DG2V10YB-M-UUM	3	5.00E-04	(142.0)	0.0	(189.5)
DG2V09YB-M-UUM	3	5.00E-04	(142.0)	0.0	(189.5)
SCSF068B-DENER	33	1.00E+00	( 6.0)	0.0	(189.5)
SCSF06AA-DENER	41	1.00E+00	( 6.0)	0.0	(189.5)
RA-NONE	212	1.00E+00	( 6.0)	0.0	(189.5)
NOFLOW-SFC-B5X	9	1.00E+00	( 6.0)	0.0	(189.5)
NOFLOW-SFC-A5X	6	1.00E+00	( 6.0)	0.0	(189.5)
NOFLOW-RHR-B1	7	1.00E+00	( 6.0)	0.0	(189.5)
NOFLOW-RHR-A1	7	1.00E+00	( 6.0)	0.0	(189.5)
NOFLOW-CSS-B7A	9	1.00E+00	( 6.0)	0.0	(189.5)
NOFLOW-CSS-A7A	6	1.00E+00	( 6.0)	0.0	(189.5)
FLOW-RHR-B3	28	1.00E+00	( 6.0)	0.0	(189.5)

FLOW-RHR-A3 21 1.00E+00 ( 6.0)  
EE-MDP-PSW-BC-R 86 3.30E-01 ( 14.0)

SEQUENCE T24

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT DPDSA2-T-SEQ2A WITH TOP EVENT FREQUENCY 1.04E-07

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	4	5	7.65E-09	0.07354	1EB212YX-BCD-LF	* /CONT-LEAK	* IE-T101	* RA-NONE	*
3					SUR-023-R	+			
4	2	5	7.65E-09	0.14708	1EB211YX-BCD-LF	* /CONT-LEAK	* IE-T102	* RA-NONE	*
5					SUR-023-R	+			
6	1	5	7.65E-09	0.22062	1EB1Y22X-BCD	* /CONT-LEAK	* IE-T102	* RA-NONE	*
7					SUR-023-R	+			
8	3	5	7.65E-09	0.29416	1E02Y22X-BCD	* /CONT-LEAK	* IE-T101	* RA-NONE	*
9					SUR-023-R	+			
10	5	7	1.79E-09	0.31132	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	*
11					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
12	6	6	1.47E-09	0.32548	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* LAK9BRCB-ROO-LFO	*
13					RA-1-1-27H	* SUR-023-R	+		
14	7	6	1.47E-09	0.33964	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* LAK18BRB-ROO-LFO	*
15					RA-1-1-27H	* SUR-023-R	+		
16	9	7	1.43E-09	0.35337	AP039X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
17					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
18	8	7	1.43E-09	0.36710	AP040X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
19					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
20	10	7	1.36E-09	0.38014	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* IE-LOSP	*
21					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
22	11	7	1.36E-09	0.39319	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
23					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
24	13	8	1.12E-09	0.40398	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* LAK14BRC-ROO-LFO	*
25					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* KA-2-11-27H	* SUR-023-R	+
26	12	7	1.12E-09	0.41476	/CONT-LEAK	* EE-MDP-PSW-BC-R	* FLOW-RHR-B3	* IE-T101	*
27					LAK93BRC-ROO-LFO	* RA-2-11-27H	* SUR-023-R	+	
28	14	7	1.09E-09	0.42520	AP039X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-LF-FTR	* IE-LOSP	*
29					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
30	15	7	1.09E-09	0.43563	AP040X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-LF-FTR	* IE-LOSP	*
31					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
32	16	7	1.03E-09	0.44555	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP	*
33					RA-3-27H	* RA-9-27H	* SUR-024-R	+	
34	18	6	8.86E-10	0.45406	AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-8-27H	*
35					FRRH01AX-HTX-LFB	* SUR-024-R	+		
36	17	6	8.86E-10	0.46250	AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-8-27H	*
37					RHRH01AX-HTX-LFB	* SUR-024-R	+		
38	19	6	8.57E-10	0.47082	AP040X2-ROO-LFO	* /CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
39					RA-8-27H	* SUR-024-R	+		
40	20	6	8.57E-10	0.47905	AP039X2-ROO-LFO	* /CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
41					RA-8-27H	* SUR-024-R	+		
42	21	6	4.57E-10	0.48344	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* RA-1-1-27H	*
43					RHRH01BX-HTX-LFB	* SUR-023-R	+		
44	22	7	4.43E-10	0.48770	/CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	* RA-8-27H	*
45					RA-9-27H	* RHRH01BX-HTX-LFB	* SUR-024-R	+	



46	23	7	4.43E-10	0.49196	/CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	* RA-B-27H	*
47					RA-9-27H	* RHR01AX-HTX-LFB	* SUR-024-R	+	
48	25	7	4.29E-10	0.49608	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-G-UUM	* IE-LOSP	*
49					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
50	24	7	4.29E-10	0.50020	/CONT-LEAK	* DGO-G-UUM	* DG2A-GEN-LF-FTS	* IE-LOSP	*
51					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
52	27	6	4.29E-10	0.50432	AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-B-27H	*
53					RHRC02AA-P-NDUUM	* SUR-024-R	+		
54	28	6	4.29E-10	0.50844	AP040X2-ROO-LFO	* C0DGO1P-P-UUM	* /CONT-LEAK	* IE-LOSP	*
55					RA-B-27H	* SUR-024-R	+		
56	30	6	4.29E-10	0.51255	AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* LCSC002A-P-UUM	*
57					RA-B-27H	* SUR-024-R	+		
58	29	7	4.29E-10	0.51667	AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-B-27H	*
59					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-024-R	+	
60	31	6	4.29E-10	0.52079	AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-B-27H	*
61					RHRC02AA-P-NDUUM	* SUR-024-R	+		
62	26	6	4.29E-10	0.52491	AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* LCSC002A-P-UUM	*
63					RA-B-27H	* SUR-024-R	+		
64	33	7	4.29E-10	0.52903	AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-B-27H	*
65					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-024-R	+	
66	32	6	4.29E-10	0.53315	AP039X2-ROO-LFO	* C0DGO1P-P-UUM	* /CONT-LEAK	* IE-LOSP	*
67					RA-B-27H	* SUR-024-R	+		
68	34	6	3.57E-10	0.53659	AP040X2-ROO-LFO	* /CONT-LEAK	* DGOV01CA-FMS-CC	* IE-LOSP	*
69					RA-B-27H	* SUR-024-R	+		
70	49	6	3.57E-10	0.54002	AP039X2-ROO-LFO	* /CONT-LEAK	* DOV-MOD-COM-CC	* IE-LOSP	*
71					RA-B-27H	* SUR-024-R	+		
72	48	6	3.57E-10	0.54345	AP040X2-ROO-LFO	* C0DGO1P-PMS-CC	* /CONT-LEAK	* IE-LOSP	*
73					RA-B-27H	* SUR-024-R	+		
74	36	6	3.57E-10	0.54688	AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-B-27H	*
75					RHR01AA-BOO-CC	* SUR-024-R	+		
76	46	6	3.57E-10	0.55032	AP040X2-ROO-LFO	* /CONT-LEAK	* DOV-MOD-COM-CC	* IE-LOSP	*
77					RA-B-27H	* SUR-024-R	+		
78	47	6	3.57E-10	0.55375	AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* NWY01CA-FMS-CC	*
79					RA-B-27H	* SUR-024-R	+		
80	42	6	3.57E-10	0.55718	1EB412A-BCC-CC	* AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	*
81					RA-B-27H	* SUR-024-R	+		
82	35	6	3.57E-10	0.56062	AP039X2-ROO-LFO	* /CONT-LEAK	* DGOV01CA-FMS-CC	* IE-LOSP	*
83					RA-B-27H	* SUR-024-R	+		
84	45	6	3.57E-10	0.56405	AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* NWY01CA-FMS-CC	*
85					RA-B-27H	* SUR-024-R	+		
86	37	6	3.57E-10	0.56748	AP039X2-ROO-LFO	* C0DGO1P-PMS-CC	* /CONT-LEAK	* IE-LOSP	*
87					RA-B-27H	* SUR-024-R	+		
88	41	6	3.57E-10	0.57092	1EB233A-BCC-AS	* AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	*
89					RA-B-27H	* SUR-024-R	+		
90	39	6	3.57E-10	0.57435	1EB412A-BCC-CC	* AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	*
91					RA-B-27H	* SUR-024-R	+		
92	44	6	3.57E-10	0.57778	1EB413A-BOO-CC	* AP040X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	*
93					RA-B-27H	* SUR-024-R	+		
94	40	6	3.57E-10	0.58121	AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	* RA-B-27H	*
95					RHR01AA-BOO-CC	* SUR-024-R	+		
96	43	6	3.57E-10	0.58465	1EB413A-BOO-CC	* AP039X2-ROO-LFO	* /CONT-LEAK	* IE-LOSP	*
97					RA-B-27H	* SUR-024-R	+		

98	38	6	3.57E-10	0.58808	1EB233A-BCC-AS	* AP039X2-ROO-LFO	* /CONT-LEAK	* 1E-LOSP	*
99					RA-8-27H	* SUR-024-R	+		
100	50	7	3.37E-10	0.59132	/CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H	*
101					RA-9-27H	* RHRH01BX-HTX-LFB	* SUR-024-R	+	
102	51	7	3.37E-10	0.59455	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H	*
103					RA-9-27H	* RHRH01AX-HTX-LFB	* SUR-024-R	+	
104	52	7	3.26E-10	0.59768	/CONT-LEAK	* DGO-G-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
105					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
106	53	7	3.26E-10	0.60081	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-G-UUM	* 1E-LOSP	*
107					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
108	55	6	2.66E-10	0.60337	/CONT-LEAK	* DGO-G-UUM	* 1E-LOSP	* RA-8-27H	*
109					RHRH01BX-HTX-LFB	* SUR-024-R	+		
110	54	6	2.66E-10	0.60592	/CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	* RA-8-27H	*
111					RHRH01AX-HTX-LFB	* SUR-024-R	+		
112	57	7	2.64E-10	0.60846	/CONT-LEAK	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
113					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
114	56	7	2.64E-10	0.61100	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTS	* 1E-LOSP	*
115					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
116	58	6	2.57E-10	0.61347	/CONT-LEAK	* DGO-G-UUM	* DG2A-G-UUM	* 1E-LOSP	*
117					RA-8-27H	* SUR-024-R	+		
118	59	6	2.50E-10	0.61588	/CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	* LAK3BRCB-RCO-LFO	*
119					RA-1-1-27H	* SUR-023-R	+		
120	63	6	2.21E-10	0.61800	/CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	* RA-1-1-27H	*
121					RHRC02BB-P-NDUUM	* SUR-023-R	+		
122	62	7	2.21E-10	0.62013	/CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	* RA-1-1-27H	*
123					RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-023-R	+	
124	60	6	2.21E-10	0.62225	/CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	* RA-7-1-27H	*
125					RHRC003B-P-UUM	* SUR-023-R	+		
126	61	6	2.21E-10	0.62437	C2DGO1P-P-UUM	* /CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	*
127					RA-1-1-27H	* SUR-023-R	+		
128	65	7	2.14E-10	0.62643	/CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	* RA-8-27H	*
129					RA-9-27H	* RHRC02AA-P-NDUUM	* SUR-024-R	+	
130	68	7	2.14E-10	0.62849	/CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	* LCSC002A-P-UUM	*
131					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
132	70	8	2.14E-10	0.63055	/CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	* RA-8-27H	*
133					RA-9-27H	* RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-024-R	+
134	67	7	2.14E-10	0.63261	/CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	* RA-8-27H	*
135					RA-9-27H	* RHRC02BB-P-NDUUM	* SUR-024-R	+	
136	69	7	2.14E-10	0.63467	CODG01P-P-UUM	* /CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
137					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
138	66	7	2.14E-10	0.63673	C2DGO1P-P-UUM	* /CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	*
139					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
140	64	8	2.14E-10	0.63879	/CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	* RA-8-27H	*
141					RA-9-27H	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-024-R	+
142	72	6	2.14E-10	0.64085	/CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	* LAK18BCP1-LFOO	*
143					RA-1-1-27H	* SUR-023-R	+		
144	71	6	2.14E-10	0.64290	/CONT-LEAK	* EE-MDP-PSW-BC-R	* 1E-T101	* LAK9BCP3-LFOO	*
145					RA-1-1-27H	* SUR-023-R	+		
146	73	7	2.11E-10	0.64493	AP040X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-CC-FTS	* 1E-LOSP	*
147					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
148	74	7	2.11E-10	0.64696	AP039X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-CC-FTS	* 1E-LOSP	*
149					RA-8-27H	* RA-9-27H	* SUR-024-R	+	

150	75	7	2.01E-10	0.64889	/CONT-LEAK	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
151					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
152	76	7	2.01E-10	0.65082	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTS	* IE-LOSP	*
153					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
154	78	7	2.00E-10	0.65275	/CONT-LEAK	* JGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* IE-LOSP	*
155					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
156	77	7	2.00E-10	0.65467	/CONT-LEAK	* DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTS	* IE-LOSP	*
157					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
158	79	6	2.00E-10	0.65659	APC39X2-R00-LFO	* /CONT-LEAK	* DGOV01CA-RUM-0	* IE-LOSP	*
159					RA-8-27H	* SUR-024-R	+		
160	80	6	2.00E-10	0.65851	APD40X2-R00-LFO	* /CONT-LEAK	* DGOV01CA-RUM-0	* IE-LOSP	*
161					RA-8-27H	* SUR-024-R	+		
162	82	6	1.84E-10	0.66028	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* RA-1-1-27H	*
163					SEVY03CB-FMS-CC	* SUR-023-R	+		
164	83	6	1.84E-10	0.66205	C2DGO1P-PMS-CC	* /CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	*
165					RA-1-1-27H	* SUR-023-R	+		
166	81	6	1.84E-10	0.66382	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* RA-1-1-27H	*
167					RHRB01BB-B00-CC	* SUR-023-R	+		
168	95	7	1.79E-10	0.66554	C0DGO1P-PMS-CC	* /CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	*
169					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
170	100	7	1.79E-10	0.66726	1EB234B-BCC-CC	* /CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
171					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
172	94	7	1.79E-10	0.66897	1EB412A-BCC-CC	* /CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	*
173					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
174	96	7	1.79E-10	0.67069	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2V03CB-FMS-CC	* IE-LOSP	*
175					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
176	98	7	1.79E-10	0.67241	1EB413A-B00-CC	* /CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	*
177					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
178	89	7	1.79E-10	0.67412	/CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	* NWV01CA-FMS-CC	*
179					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
180	91	7	1.79E-10	0.67584	1EB422B-BCC-CC	* /CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
181					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
182	99	7	1.79E-10	0.67755	1EB233A-BCC-AS	* /CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	*
183					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
184	97	7	1.79E-10	0.67927	/CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	* RA-8-27H	*
185					RA-9-27H	* RHRB01BB-B00-CC	* SUR-024-R	+	
186	92	7	1.79E-10	0.68099	/CONT-LEAK	* DGV-MOD-COM-CC	* DG2A-GEN-LF-FTS	* IE-LOSP	*
187					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
188	90	7	1.79E-10	0.68270	/CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	* RA-8-27H	*
189					RA-9-27H	* RHRB01AA-B00-CC	* SUR-024-R	+	
190	86	7	1.79E-10	0.68442	/CONT-LEAK	* DAV-MOD-COM-CC	* DGO-GEN-LF-FTS	* IE-LOSP	*
191					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
192	93	7	1.79E-10	0.68614	/CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	* RA-8-27H	*
193					RA-9-27H	* SEVY03CB-FMS-CC	* SUR-024-R	+	
194	88	7	1.79E-10	0.68785	1EB423B-B00-CC	* /CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
195					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
196	87	7	1.79E-10	0.68957	C2DGO1P-PMS-CC	* /CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
197					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
198	84	7	1.79E-10	0.69129	1EB425B-BCC-CC	* /CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
199					RA-8-27H	* RA-9-27H	* SUR-024-R	+	
200	85	7	1.79E-10	0.69300	/CONT-LEAK	* DGOV01CA-FMS-CC	* DG2A-GEN-LF-FTS	* IE-LOSP	*
201					RA-8-27H	* RA-9-27H	* SUR-024-R	+	

202	102	6	1.71E-10	0.69465	AP040X2-ROO-LFO	* /CONT-LEAK	* CSC0300A-PLG-LF	* 1E-LOSP	*
203					RA-B-27H	* SUR-024-R	+		
204	101	6	1.71E-10	0.69630	AP039X2-ROO-LFO	* /CONT-LEAK	* CSC0300A-PLG-LF	* 1E-LOSP	*
205					RA-B-27H	* SUR-024-R	+		
206	103	8	1.63E-10	0.69786	/CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	* RA-B-27H	*
207					RA-9-27H	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-024-R	+
208	105	8	1.63E-10	0.69943	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-B-27H	*
209					RA-9-27H	* RHRC02AA-P-UUM	* SCSF06AA-DEN&R	* SUR-024-R	+
210	104	7	1.63E-10	0.70100	/CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	* RA-B-27H	*
211					RA-9-27H	* RHRC02BB-P-NDUUM	* SUR-024-R	+	
212	106	7	1.63E-10	0.70256	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-B-27H	*
213					RA-9-27H	* RHRC02AA-P-NDUUM	* SUR-024-R	+	
214	109	7	1.63E-10	0.70413	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* LCSC002A-P-UUM	*
215					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
216	108	7	1.63E-10	0.70569	C0D001P-P-UUM	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
217					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
218	107	7	1.63E-10	0.70726	C2D001P-P-UUM	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
219					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
220	110	7	1.63E-10	0.70882	/CONT-LEAK	* EE-MDP-PSW-BC-R	* FLOW-RHR-B3	* 1E-T101	*
221					LAK93BCP3-LFCC	* RA-2-11-27H	* SUR-023-R	+	
222	111	7	1.60E-10	0.71036	AP039X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-CC-FTR	* 1E-LOSP	*
223					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
224	112	7	1.60E-10	0.71190	* 040X2-ROO-LFO	* /CONT-LEAK	* DGO-GEN-CC-FTR	* 1E-LOSP	*
225					-B-27H	* RA-9-27H	* SUR-024-R	+	
226	113	6	1.57E-10	0.71341	AP040X2-ROO-LFO	* /CONT-LEAK	* 1E-LOSP	* RA-B-27H	*
227					RHRC02AA-PMS-LF	* SUR-024-R	+		
228	114	6	1.57E-10	0.71492	AP040X2-ROO-LFO	* C0D001P-PMS-LF	* /CONT-LEAK	* 1E-LOSP	*
229					RA-B-27H	* SUR-024-R	+		
230	115	6	1.57E-10	0.71643	AP039X2-ROO-LFO	* C0D001P-PMS-LF	* /CONT-LEAK	* 1E-LOSP	*
231					RA-B-27H	* SUR-024-R	+		
232	116	6	1.57E-10	0.71794	AP039X2-ROO-LFO	* /CONT-LEAK	* 1E-LOSP	* RA-B-27H	*
233					RHRC02AA-PMS-LF	* SUR-024-R	+		
234	118	7	1.52E-10	0.71940	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTR	* 1E-LOSP	*
235					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
236	117	7	1.52E-10	0.72086	/CONT-LEAK	* DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
237					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
238	120	6	1.51E-10	0.72232	/CONT-LEAK	* 1E-T102	* RA-NONE	* RHRH01AX-HTX-LFB	*
239					RLOSP	* SUR-024-R	+		
240	119	6	1.51E-10	0.72377	/CONT-LEAK	* 1E-T101	* RA-NONE	* RHRH01BX-HTX-LFB	*
241					RLOSP	* SUR-024-R	+		
242	121	6	1.40E-10	0.72512	/CONT-LEAK	* CSCF06BB-VCC-CC	* EE-MDP-PSW-BC-R	* 1E-T101	*
243					RA-2-11-27H	* SUR-023-R	+		
244	122	7	1.40E-10	0.72647	/CONT-LEAK	* EE-MDP-PSW-BC-R	* FLOW-RHR-B3	* 1E-T101	*
245					RA-2-11-27H	* RHRF48BB-VCC-CC	* SUR-023-R	+	
246	127	7	1.36E-10	0.72777	/CONT-LEAK	* DOV-MOD-COM-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
247					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
248	125	7	1.36E-10	0.72908	1E8425B-BCC-CC	* /CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	*
249					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
250	126	7	1.36E-10	0.73038	1E8422B-BCC-CC	* /CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	*
251					RA-B-27H	* RA-9-27H	* SUR-024-R	+	
252	129	7	1.36E-10	0.73169	1E8413A-B00-CC	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
253					RA-B-27H	* RA-9-27H	* SUR-024-R	+	

254	123	7	1.36E-10	0.73299	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H	*
255					RA-9-27H	* RHRB01AA-B00-CC	* SUR-024-R	*	*
256	124	7	1.36E-10	0.73429	/CONT-LEAK	* DG0-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H	*
257					RA-9-27H	* RHRB01BB-B00-CC	* SUR-024-R	*	*
258	130	7	1.36E-10	0.73560	/CONT-LEAK	* DG0-GEN-LF-FTR	* DG2V03CB-FMS-CC	* 1E-LOSP	*
259					RA-8-27H	* RA-9-27H	* SUR-024-R	* RA-8-27H	*
260	128	7	1.36E-10	0.73690	/CONT-LEAK	* DG0-GEN-LF-FTR	* 1E-LOSP	*	*
261					RA-9-27H	* SEVY03CB-FMS-CC	* SUR-024-R	* 1E-LOSP	*
262	135	7	1.36E-10	0.73821	C2D601P-PMS-CC	* /CONT-LEAK	* DG0-GEN-LF-FTR	* 1E-LOSP	*
263					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
264	132	7	1.36E-10	0.73951	RA-8-27H	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
265					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
266					/CONT-LEAK	* DAY-MOD-COM-CC	* DG0-GEN-LF-FTR	* 1E-LOSP	*
267					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
268	136	7	1.36E-10	0.74212	1EB234B-BCC-CC	* /CONT-LEAK	* DG0-GEN-LF-FTR	* 1E-LOSP	*
269					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
270	138	7	1.36E-10	0.74343	/CONT-LEAK	* DG0V01CA-FMS-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
271					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
272	133	7	1.36E-10	0.74473	1EB423B-B00-CC	* /CONT-LEAK	* DG0-GEN-LF-FTR	* 1E-LOSP	*
273					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
274	134	7	1.36E-10	0.74604	1EB233A-BCC-AS	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
275					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
276	131	7	1.36E-10	0.74734	C0U691P-PMS-CC	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
277					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
278	139	7	1.36E-10	0.74864	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* NAVY01CA-FMS-CC	*
279					RA-8-27H	* RA-9-27H	* SUR-024-R	* 1E-LOSP	*
280	141	7	1.33E-10	0.74992	1E41YA-V-UUM	* /CONT-LEAK	* EE-MSP-PSM-BC-R	* 1E-T1	*
281					LAKYR0CB-R00-LFO	* RA-1-1-27H	* SUR-023-R	* 1E-T1	*
282	140	7	1.33E-10	0.75119	1E41YA-V-UUM	* /CONT-LEAK	* EE-MSP-PSM-BC-R	* 1E-T1	*
283					LAK18BRB-R00-LFO	* RA-1-1-27H	* SUR-023-R	* RA-8-27H	*
284	143	7	1.29E-10	0.75243	/CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	* RA-8-27H	*
285					RHR028B-P-UUM	* SCSF06BB-DENER	* SUR-024-R	* RA-8-27H	*
286	142	6	1.27E-10	0.75366	/CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	* RA-8-27H	*
287					RHR028B-P-UUM	* SUR-024-R	* 1E-LOSP	* RA-8-27H	*
288	144	6	1.29E-10	0.75490	/CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	* RA-8-27H	*
289					RHR028A-P-UUM	* SUR-024-R	* 1E-LOSP	* RA-8-27H	*
290	145	7	1.29E-10	0.75614	/CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	* RA-8-27H	*
291					RHR028A-P-UUM	* SCSF06AA-DENER	* SUR-024-R	* 1E-LOSP	*
292	146	6	1.29E-10	0.75737	C2D601P-P-UUM	* /CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	*
293					RA-8-27H	* SUR-024-R	* 1E-LOSP	* 1E-LOSP	*
294	147	6	1.29E-10	0.75861	C1D601P-P-UUM	* /CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	*
295					RA-8-27H	* SUR-024-R	* 1E-LOSP	* LCSC002A-P-UUM	*
296	148	6	1.29E-10	0.75984	/CONT-LEAK	* DG2A-G-UUM	* 1E-LOSP	* NAVY01AX-ACK-LFI	*
297					RA-8-27H	* SUR-024-R	* 1E-LOSP	* NAVY01AX-ACK-LFI	*
298	149	6	1.20E-10	0.76100	AP039X2-R00-LFO	* /CONT-LEAK	* 1E-LOSP	* RA-8-27H	*
299					RA-8-27H	* SUR-024-R	* 1E-LOSP	* RA-8-27H	*
300	150	6	1.20E-10	0.76215	AP040X2-R00-LFO	* /CONT-LEAK	* 1E-LOSP	* RA-8-27H	*
301					RA-8-27H	* SUR-024-R	* 1E-LOSP	* RA-8-27H	*
302	151	6	1.07E-10	0.76318	/CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	* RA-8-27H	*
303					RHR018B-B00-CC	* SUR-024-R	* 1E-LOSP	* RA-8-27H	*
304	152	6	1.07E-10	0.76421	/CONT-LEAK	* DG0-G-UUM	* 1E-LOSP	* RA-8-27H	*
305					SEVY03CB-FMS-CC	* SUR-024-R	* 1E-LOSP	* RA-8-27H	*

306	153	6	1.07E-10	0.76524	/CONT-LEAK	DG2A-G-UUM	1E-LOSP	RA-8-27H	*
307					RHR01AA-800-CC	SUR-024-R			*
308	159	6	1.07E-10	0.76627	1EB422B-8CC-CC	/CONT-LEAK	DG0-G-UUM	1E-LOSP	*
309					RA-8-27H	SUR-024-R			*
310	161	6	1.07E-10	0.76730	/CONT-LEAK	DG0V01CA-FMS-CC	DG2A-G-UUM	1E-LOSP	*
311					RA-8-27H	SUR-024-R			*
312	162	6	1.07E-10	0.76833	1EB412A-8CC-CC	/CONT-LEAK	DG2A-G-UUM	1E-LOSP	*
313					RA-8-27H	SUR-024-R			*
314	164	6	1.07E-10	0.76936	/CONT-LEAK	DG2A-G-UUM	1E-LOSP	MWY01CA-FMS-CC	*
315					RA-8-27H	SUR-024-R			*
316	165	6	1.07E-10	0.77139	1EB423B-800-CC	/CONT-LEAK	DG0-G-UUM	1E-LOSP	*
317					RA-8-27H	SUR-024-R			*
318	163	6	1.07E-10	0.77142	/CONT-LEAK	DIV-M00-COM-CC	DG2A-G-UUM	1E-LOSP	*
319					RA-8-27H	SUR-024-R			*
320	167	6	1.07E-10	0.77245	C20601P-FMS-CC	/CONT-LEAK	DG0-G-UUM	1E-LOSP	*
321					RA-8-27H	SUR-024-R			*
322	157	6	1.07E-10	0.77348	1EB425B-8CC-CC	/CONT-LEAK	DG0-G-UUM	1E-LOSP	*
323					RA-8-27H	SUR-024-R			*
324	158	6	1.07E-11	0.77451	1EB233A-8CC-AS	/CONT-LEAK	DG2A-G-UUM	1E-LOSP	*
325					RA-8-27H	SUR-024-R			*
326	154	6	1.07E-10	0.77554	1EB234B-8CC-CC	/CONT-LEAK	DG0-G-UUM	1E-LOSP	*
327					RA-8-27H	SUR-024-R			*
328	166	6	1.07E-10	0.77657	C00601P-FMS-CC	/CONT-LEAK	DG2A-G-UUM	1E-LOSP	*
329					RA-8-27H	SUR-024-R			*
330	155	6	1.07E-10	0.77760	/CONT-LEAK	DG0-G-UUM	DG2V030B-FMS-CC	1E-LOSP	*
331					RA-8-27H	SUR-024-R			*
332	156	6	1.07E-10	0.77863	/CONT-LEAK	DAV-030-COM-CC	DG0-G-UUM	1E-LOSP	*
333					RA-8-27H	SUR-024-R			*
334	160	6	1.07E-10	0.77966	1EB413A-800-CC	/CONT-LEAK	DG2A-G-UUM	1E-LOSP	*
335					RA-8-27H	SUR-024-R			*
336	171	6	1.03E-10	0.78065	AP040X2-800-LFO	/CONT-LEAK	EE-C500300A-PLG	1E-LOSP	*
337					RA-8-27H	SUR-024-R			*
338	170	6	1.03E-10	0.78164	AP039X2-800-LFO	/CONT-LEAK	EE-C500300A-PLG	1E-LOSP	*
339					RA-8-27H	SUR-024-R			*
340	169	6	1.03E-10	0.78263	AP040X2-800-LFO	/CONT-LEAK	EE-C00601F-PLG	1E-LOSP	*
341					RA-8-27H	SUR-024-R			*
342	168	6	1.03E-10	0.78351	AP039X2-800-LFO	/CONT-LEAK	EE-C00601F-PLG	1E-LOSP	*
343					RA-8-27H	SUR-024-R			*
344	172	8	1.01E-10	0.78458	1E411A-V-UUM	/CONT-LEAK	EE-M0P-PSM-BC-R	FLOW-RHR-B3	*
345					1E-11	LAK938CC-800-LFO	R'-2-11-27H	SUR-023-R	*
346	173	7	1.00E-10	0.78555	/CONT-LEAK	DG0V01CA-RUM-0	2A-GEN-LF-FTS	1E-LOSP	*
347					RA-8-27H	RA-9-27H	SUR-024-R		*
348	174	7	8.94E-11	0.78641	1CB236B-800-LF	/CONT-LEAK	CR01-REALIGN-DE	1E-11	*
349					RA-NONE	RHR07AX-HTX-LFB	SUR-023-R		*
350	175	6	8.84E-11	0.78726	/CONT-LEAK	CSC0300B-PLG-LF	EE-M0P-PSM-BC-R	1E-1101	*
351					RA-1-1-27H	SUR-023-R			*
352	176	7	8.57E-11	0.78808	/CONT-LEAK	CSC0300B-PLG-LF	DG0-GE-	1E-LOSP	*
353					RA-8-27H	RA-9-27H	DG2A-GEN-LF-FTS	1E-LOSP	*
354	177	7	8.57E-11	0.78890	/CONT-LEAK	CSC0300A-PLG-LF	SUR-024-R		*
355					RA-8-27H	RA-9-27H	/CONT-LEAK		*
356	179	6	8.29E-11	0.78970	AP040X2-800-LFO	C00601F-PLG-LF			*
357					RA-8-27H	SUR-024-R			*

35R	181	6	8.29E-11	0.79050	AP039X2-ROO-LFO	CG0G01P-PLG-LF	/CONT-LEAK	TE-LOSP	*
377					RA-8-27H	SUR-024-R			*
360	178	6	8.29E-11	0.79129	AP039X2-ROO-LFO	/CONT-LEAK	DG0V01FX-KLM-LFB	TE-LOSP	*
361					RA-8-27H	SUR-024-R			*
362	180	6	8.29E-11	0.79209	AP040X2-ROO-LFO	/CONT-LEAK	DG0V01FX-KLM-LFB	TE-LOSP	*
363					RA-8-27H	SUR-024-R			*
364	182	6	8.10E-11	0.79287	/CONT-LEAK	EE-MDP-PSM-BC-R	TE-T101	RA-8-1-27H	*
365					RHRC028B-PMS-LF	SUR-023-R	EE-MDP-PSM-C-R	TE-T101	*
366	183	6	8.10E-11	0.79365	CG0G01P-PMS-LF	/CONT-LFAX			*
367					RA-1-1-27H	SUR-023-R			*
368	184	7	7.86E-11	0.79440	/CONT-LEAK	DG2A-GEN-LF-FTS	TE-LOSP	RA-8-27H	*
369					RA-9-27H	RHRC02AA-PMS-LF	TE-LOSP	RA-8-27H	*
370	185	7	7.86E-11	0.79516	/CONT-LEAK	DG0-GEN-LF-FTS			*
371					RA-9-27H	RHRC028B-PMS-LF			*
372	187	7	7.86E-11	0.79591	CG0G01P-PMS-LF	/CONT-LEAK	DG0-GEN-LF-FTS	TE-LOSP	*
373					RA-8-27H	RA-9-27H			*
374	186	7	7.86E-11	0.79667	CG0G01P-PMS-LF	/CONT-LEAK	DG2A-GEN-LF-FTS	TE-LOSP	*
375					RA-8-27H	RA-9-27H			*
376	191	6	7.71E-11	0.79741	AP040X2-ROO-LFO	/CONT-LEAK	TE-LOSP	NWY01CA-FMS-LF	*
377					RA-8-27H	SUR-024-R			*
378	190	6	7.71E-11	0.79815	AP039X1-ROO-LFO	/CONT-LEAK	TE-LOSP	NWY01CA-FMS-LF	*
379					RA-8-27H	SUR-024-R			*
380	188	6	7.71E-11	0.79889	AP040X2-ROO-LFO	/CONT-LEAK	DG0V01CA-FMS-LF	TE-LOSP	*
381					RA-8-27H	SUR-024-R			*
382	189	6	7.71E-11	0.79963	AP039X2-ROO-LFO	/CONT-LEAK	DG0V01CA-FMS-LF	TE-LOSP	*
383					RA-8-27H	SUR-024-R			*
384	192	7	7.60E-11	0.80037	/CONT-LEAK	DG0V01CA-RUM-0			*
385					RA-8-27H	RA-9-27H			*
386	190	7	7.32E-11	0.80107	/CONT-LEAK	TE-T101			*
387					RLOSP	SCSF06RB-DENER			*
388	197	7	7.32E-11	0.80177	/CONT-LEAK	TE-T102			*
389					RLOSP	SCSF06AA-DENER			*
390	198	6	7.32E-11	0.80248	CG0G01P-P-UUM	/CONT-LEAK	TE-T102	RA-NONE	*
391					RLOSP	SUR-024-R			*
392	195	6	7.32E-11	0.80318	/CONT-LEAK	TE-T101			*
393					RLOSP	SUR-024-R			*
394	194	6	7.32E-11	0.80309	/CONT-LEAK	TE-T102			*
395					RLOSP	SUR-024-R			*
396	193	6	7.32E-11	0.80459	CG0G01P-P-UUM	/CONT-LEAK	LCSC002A-P-UUM	RA-NONE	*
397					RLOSP	SUR-024-R			*
398	196	6	7.32E-11	0.80529	/CONT-LEAK	TE-T102			*
399					RLOSP	SUR-024-R			*
400	205	6	7.14E-11	0.80596	1E8233A-BCC-LF	AP039X2-ROO-LFO	/CONT-LEAK	TE-LOSP	*
401					RA-8-27H	SUR-024-R			*
402	203	6	7.14E-11	0.80667	1E8412A-BCC-LF	AP070X2-ROO-LFO	/CONT-LEAK	TE-LOSP	*
403					RA-8-27H	SUR-024-R			*
404	214	6	7.14E-11	0.80735	1E8412A-BCC-LF	AP039X2-ROO-LFO	/CONT-LEAK	TE-LOSP	*
405					RA-8-27H	SUR-024-R			*
406	212	6	7.14E-11	0.80804	AP040X2-ROO-LFO	/CONT-LEAK	DG0V01CA-F-UUM	TE-LOSP	*
407					RA-8-27H	SUR-024-R			*
408	206	6	7.14E-11	0.80873	AP040X2-ROO-LFO	/CONT-LEAK	DG0V01YA-M-UUM	TE-LOSP	*
409					RA-8-27H	SUR-024-R			*





462	236	6	6.10E-11	0.82658	/CONT-LEAK	* 1E-1102	* NAVY01CA-PMS-CC	* RA-NONE	*
463					RLOSP	* SUR-024-R			*
464	235	6	6.10E-11	0.82716	/CONT-LEAK	* 1E-1101	* RA-NONE	* RHR0188-B02-CC	*
465					RLOSP	* SUR-024-R			*
466	234	6	6.10E-11	0.82775	CDDG01P-PMS-CC	* /CONT-LEAK	* 1E-1102	* RA-NONE	*
467					RLOSP	* SUR-024-R			*
468	233	6	6.10E-11	0.82834	/CONT-LEAK	* 1E-1102	* RA-NONE	* RHR018A-B00-CC	*
469					RLOSP	* SUR-024-R			*
470	232	6	6.10E-11	0.82892	CDDG01P-PMS-CC	* /CONT-LEAK	* 1E-1101	* RA-NONE	*
471					RLOSP	* SUR-024-R			*
472	231	6	6.10E-11	0.82951	/CONT-LEAK	* 1E-1101	* RA-NONE	* RLOSP	*
473					SEV703CB-PMS-CC	* SUR-024-R			*
474	239	7	6.00E-11	0.83009	/CONT-LEAK	* DG2A-GEN-LF-FTS	* 1E-LOSP	* NAVY01AX-ACK-LF1	*
475					RA-8-27H	* RA-9-27H	* SUR-024-R		*
476	238	7	6.00E-11	0.83067	/CONT-LEAK	* DGO-GEN-LF-FTS	* 1E-LOSP	* RA-8-27H	*
477					RA-9-27H	* SEV703AX-ACK-LF1	* SUR-024-R		*
478	237	6	6.00E-11	0.83124	/CONT-LEAK	* DDDV01CA-RUM-0	* DG2A-G-UM	* 1E-LOSP	*
479					RA-8-27H	* SUR-024-R			*
480	240	7	5.97E-11	0.83182	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H	*
481					RA-9-27H	* RHR02AA-PMS-LF	* SUR-024-R		*
482	241	7	5.97E-11	0.83239	/CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H	*
483					RA-9-27H	* RHR02BB-PMS-LF	* SUR-024-R		*
484	242	7	5.97E-11	0.83296	CDDG01P-PMS-LF	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
485					RA-8-27H	* RA-9-27H	* SUR-024-R		*
486	243	7	5.97E-11	0.83354	CDDG01P-PMS-LF	* /CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	*
487					RA-8-27H	* 7A-9-27H	* SUR-024-R		*
488	245	7	5.71E-11	0.83409	AP039K2-R00-LF0	* /CONT-LEAK	* D0VB101X-B00-LF	* 1E-LOSP	*
489					1E-LOSP	* RA-8-27H	* SUR-024-R		*
490	244	7	5.71E-11	0.83464	AP040K2-R00-LF0	* /CONT-LEAK	* D0VB102X-B00-LF	* 1E-LOSP	*
491					1E-LOSP	* RA-8-27H	* SUR-024-R		*
492	246	7	5.71E-11	0.83519	AP040K2-R00-LF0	* /CONT-LEAK	* D0VB201X-B00-LF	* 1E-LOSP	*
493					1E-LOSP	* RA-8-27H	* SUR-024-R		*
494	247	7	5.71E-11	0.83573	AP039K2-R00-LF0	* /CONT-LEAK	* D0VB202X-B00-LF	* 1E-LOSP	*
495					1E-LOSP	* RA-8-27H	* SUR-024-R		*
496	249	7	5.14E-11	0.83623	/CONT-LEAK	* DG2A-GEN-LF-FTS	* EE-CDDG01F-PLG	* 1E-LOSP	*
497					RA-8-27H	* RA-9-27H	* SUR-024-R		*
498	250	7	5.14E-11	0.83672	/CONT-LEAK	* DGO-GEN-LF-FTS	* EE-CDDG01F-PLG	* 1E-LOSP	*
499					RA-8-27H	* RA-9-27H	* SUR-024-R		*
500	251	6	5.14E-11	0.83722	/CONT-LEAK	* CSCD300B-PLG-LF	* DGO-G-UM	* 1E-LOSP	*
501					RA-8-27H	* SUR-024-R			*
502	252	6	5.14E-11	0.83771	/CONT-LEAK	* CSCD300A-PLG-LF	* DG2A-G-UM	* 1E-LOSP	*
503					RA-8-27H	* SUR-024-R			*
504	253	7	5.14E-11	0.83821	/CONT-LEAK	* DGO-GEN-LF-FTS	* EE-CDDG01F-PLG	* 1E-LOSP	*
505					RA-8-27H	* RA-9-27H	* SUR-024-R		*
506	248	7	5.14E-11	0.83870	/CONT-LEAK	* DG2A-GEN-LF-FTS	* EE-CDDG01F-PLG	* 1E-LOSP	*
507					RA-8-27H	* RA-9-27H	* SUR-024-R		*
508	254	7	4.96E-11	0.83918	/CONT-LEAK	* DG2A-GEN-CC-FTR	* 1E-LOSP	* RA-8-27H	*
509					RA-9-27H	* RHR01AX-RTX-LFB	* SUR-024-R		*
510	255	7	4.96E-11	0.83965	/CONT-LEAK	* DGO-GEN-CC-FTR	* 1E-LOSP	* RA-8-27H	*
511					RA-9-27H	* RHR018X-RTX-LFB	* SUR-024-R		*
512	257	6	4.87E-11	0.84012	CDDG01P-PMS-LF	* /CONT-LEAK	* 1E-LOSP	* RA-8-27H	*
513					RHR01AX-RTX-LFB	* SUR-024-R			*

514	256	6	4.87E-11	0.84027	000G01P-PMS-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-10SP	* RA-B-27H	*
515					RNR018X-HTX-LFB	SUR-024-R	* SUR-024-R	* 1E-1101	* LAK288KCP4-LF00	*
516	260	6	4.86E-11	0.84106	/CONT-LEAK	EE-MOP-PSM-BC-R	* EE-MOP-PSM-BC-R	* 1E-1101	* LAK288KCP4-LF00	*
517					RA-1-1-27H	SUR-023-R	* SUR-023-R			
518	259	6	4.86E-11	0.84153	AP040X4CP1-LF00	/CONT-LEAK	* /CONT-LEAK	* EE-MOP-PSM-BC-R	* 1E-1101	*
519					RA-1-1-27H	SUR-023-R	* SUR-023-R			
520	258	6	4.86E-11	0.84199	/CONT-LEAK	EE-MOP-PSM-BC-R	* EE-MOP-PSM-BC-R	* 1E-1101	* LAK388KCP1-LF00	*
521					RA-1-1-27H	SUR-023-R	* SUR-023-R			
522	262	7	4.80E-11	0.84245	/CONT-LEAK	DG0-G-UJM	* DG0-G-UJM	* DG2A-GEN-CC-FTR	* 1E-10SP	*
523					RA-R-27H	RA-R-27H	* RA-R-27H	* SUR-024-R	* 1E-10SP	*
524	261	7	4.80E-11	0.84292	/CONT-LEAK	DG0-GEN-CC-FTR	* DG0-GEN-CC-FTR	* SUR-024-R	* 1E-10SP	*
525					RA-B-27H	RA-B-27H	* RA-B-27H	* DG2A-G-USA	* 1E-10SP	*
526	264	6	4.71E-11	0.84337	000G01P-PMS-LF	/CONT-LEAK	* /CONT-LEAK	* DG0-G-UJM	* 1E-10SP	*
527					RA-B-27H	SUR-024-R	* SUR-024-R			
528	263	6	4.71E-11	0.84382	C20G01P-PMS-LF	/CONT-LEAK	* /CONT-LEAK	* 1E-10SP	* RA-B-27H	*
529					RA-B-27H	SUR-024-R	* SUR-024-R			
530	266	6	4.71E-11	0.84427	/CONT-LEAK	DG0-G-UJM	* DG0-G-UJM	* 1E-10SP	* RA-B-27H	*
531					RHR028B-PMS-LF	SUR-024-R	* SUR-024-R			
532	265	6	4.71E-11	0.84473	/CONT-LEAK	DG2A-G-UJM	* DG2A-G-UJM	* 1E-10SP	* RA-B-27H	*
533					RHR028A-PMS-LF	SUR-024-R	* SUR-024-R			
534	267	7	4.56E-11	0.84517	/CONT-LEAK	DG0-GEN-LF-FTR	* DG0-GEN-LF-FTR	* 1E-10SP	* RA-B-27H	*
535					RA-R-27H	SEV03AX-ACK-LF1	* SEV03AX-ACK-LF1	* SUR-024-R	* 1E-11	*
536	248	7	4.56E-11	0.84560	/CONT-LEAK	DG2A-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* 1E-10SP	* NAVY01AR-ACK-LF1	*
537					RA-B-27H	RA-R-27H	* RA-R-27H	* SUR-024-R	* 1E-11	*
538	271	8	4.34E-11	0.84602	1ER336B-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* CRO1-REALIGN-DE	* 1E-11	*
539					RA-NONE	RHR028A-P-UJM	* RHR028A-P-UJM	* SCF0624-DENER	* SUR-023-R	*
540	272	7	4.34E-11	0.84644	1ER336B-BCO-LF	000G01P-P-UJM	* 000G01P-P-UJM	* /CONT-LEAK	* CRO1-REALIGN-DE	*
541					1E-11	RA-NONE	* RA-NONE	* SUR-023-R	* 1E-11	*
542	270	7	4.34E-11	0.84686	1ER336B-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* CRO1-REALIGN-OF	* 1E-11	*
543					LCSC002A-P-UJM	RA-NONE	* RA-NONE	* SUR-023-R	* 1E-11	*
544	269	7	4.34E-11	0.84727	1ER336B-BCO-LF	/CONT-LEAK	* /CONT-LEAK	* CRO1-REALIGN-DE	* 1E-11	*
545					RA-NONE	RHR028A-P-UJM	* RHR028A-P-UJM	* SUR-023-R	* 1E-10SP	*
546	288	6	4.29E-11	0.84768	AP039X2-R00-LFO	/CONT-LEAK	* /CONT-LEAK	* CSC0300A-S-UJM	* 1E-10SP	*
547					RA-B-27H	SUR-024-R	* SUR-024-R			
548	287	6	4.29E-11	0.84810	AP039X2-R00-LFO	000G01P-S-UJM	* 000G01P-S-UJM	* /CONT-LEAK	* 1E-10SP	*
549					RA-B-27H	SUR-024-R	* SUR-024-R			
550	283	6	4.29E-11	0.84851	AP040X2-R00-LFO	/CONT-LEAK	* /CONT-LEAK	* DG0V02YA-MOO-LF	* 1E-10SP	*
551					RA-B-27H	SUR-024-R	* SUR-024-R			
552	280	6	4.29E-11	0.84892	AP039X2-R00-LFO	/CONT-LEAK	* /CONT-LEAK	* DG0V03YA-MCC-LF	* 1E-10SP	*
553					RA-B-27H	SUR-024-R	* SUR-024-R			
554	276	6	4.29E-11	0.84933	AP039X2-R00-LFO	/CONT-LEAK	* /CONT-LEAK	* CSCF008A-V-UJM	* 1E-10SP	*
555					RA-B-27H	SUR-024-R	* SUR-024-R			
556	278	6	4.29E-11	0.84974	AP040X2-R00-LFO	/CONT-LEAK	* /CONT-LEAK	* CSC0300A-S-UJM	* 1E-10SP	*
557					RA-B-27H	SUR-024-R	* SUR-024-R			
558	275	6	4.29E-11	0.85016	AP040X2-R00-LFO	/CONT-LEAK	* /CONT-LEAK	* DG0V01YA-MCC-LF	* 1E-10SP	*
559					RA-B-27H	SUR-024-R	* SUR-024-R			
560	277	6	4.29E-11	0.85057	AP039X2-R00-LFO	AP251X2CP4-LF00	* AP251X2CP4-LF00	* /CONT-LEAK	* 1E-10SP	*
561					RA-B-27H	SUR-024-R	* SUR-024-R			
562	279	6	4.29E-11	0.85098	AP039X2-R00-LFO	/CONT-LEAK	* /CONT-LEAK	* DG0V02YA-MOO-LF	* 1E-10SP	*
563					RA-B-27H	SUR-024-R	* SUR-024-R			
564	273	6	4.29E-11	0.85139	AP040X2-R00-LFO	AP251X2CP4-LF00	* AP251X2CP4-LF00	* /CONT-LEAK	* 1E-10SP	*
565					RA-B-27H	SUR-024-R	* SUR-024-R			

566	274	6	4.29E-11	0.85180	TEK18A1BCP6-LFO	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	*
567					RA-B-27H	SUR-024-R			*
568	282	6	4.29E-11	0.85222	AP039X2-R00-LFO	/CONT-LEAK	DGDV01YA-MCC-LF	IE-LOSP	*
569					RA-B-27H	SUR-024-R			*
570	284	6	4.29E-11	0.85263	AP040X2-R00-LFO	/CONT-LEAK	DGDV03YA-MCC-LF	IE-LOSP	*
571					RA-B-27H	SUR-024-R			*
572	286	6	4.29E-11	0.85304	AP040X2-R00-LFO	CDG001F-S-UJM	/CONT-LEAK	IE-LOSP	*
573					RA-B-27H	SUR-024-R			*
574	285	6	4.29E-11	0.85345	TEK18A1BCP6-LFO	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	*
575					RA-B-27H	SUR-024-R			*
576	281	6	4.29E-11	0.85386	AP040X2-R00-LFO	/CONT-LEAK	CSCF008A-V-UJM	IE-LOSP	*
577					RA-B-27H	SUR-024-R			*
578	316	6	4.29E-11	0.85428	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	PI032AAA-A00-LFO	*
579					RA-B-27H	SUR-024-R			*
580	315	6	4.29E-11	0.85469	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
581					RHRF55AX-R-UJM	SUR-024-R			*
582	314	6	4.29E-11	0.85510	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
583					RHRF74AA-V-UJM	SUR-024-R			*
584	313	6	4.29E-11	0.85551	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
585					SCSF06AA-V-UJM	SUR-024-R			*
586	304	7	4.29E-11	0.85592	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
587					RHRF47AA-V-UJM	SUR-024-R			*
588	310	6	4.29E-11	0.85634	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
589					RHRF51AA-N-UJM	SUR-024-R			*
590	307	6	4.29E-11	0.85675	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
591					RHRF87AA-V-UJM	SUR-024-R			*
592	312	7	4.29E-11	0.85716	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
593					RHRF64AA-V-UJM	SUR-024-R			*
594	305	7	4.29E-11	0.85757	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
595					RA-B-27H	RHRF48AA-V-UJM			*
596	305	7	4.29E-11	0.85798	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
597					RHRF80AX-R-UJM	SUR-024-R			*
598	301	6	4.29E-11	0.85840	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
599					RHRF60AA-S-UJM	SUR-024-R			*
600	306	6	4.29E-11	0.85881	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
601					RHRF60AA-S-UJM	SUR-024-R			*
602	300	6	4.29E-11	0.85922	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
603					RHRF55AX-R-UJM	SUR-024-R			*
604	302	7	4.29E-11	0.85963	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
605					RHRF64AA-V-UJM	SUR-024-R			*
606	299	6	4.29E-11	0.86004	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
607					RA-B-27H	SUR-024-R			*
608	303	6	4.29E-11	0.86046	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
609					RHRF65AA-N-UJM	SUR-024-R			*
610	297	6	4.29E-11	0.86087	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
611					RHRH01AX-H-UJM	SUR-024-R			*
612	311	7	4.29E-11	0.86128	AP040X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
613					RHRF88AX-R-UJM	SUR-024-R			*
614	298	7	4.29E-11	0.86169	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
615					RHRF47AA-V-UJM	SUR-024-R			*
616	308	6	4.29E-11	0.86210	AP039X2-R00-LFO	/CONT-LEAK	IE-LOSP	RA-B-27H	*
617					RHRH01AX-H-UJM	SUR-024-R			*

618	289	6	4.29E-11	0.86252	AP040X2-R00-LFO	/CONT-LEAK	* 1E-LOSP	* RA-8-27H	*	
619	294	6	4.29E-11	0.86293	PHRF7AA-V-UJM	/SUR-024-R	* 1E-LOSP	* RA-8-27H	*	
620	293	6	4.29E-11	0.86334	AP040X2-R00-LFO	/CONT-LEAK	* 1E-LOSP	* RA-8-27H	*	
621	291	6	4.29E-11	0.86375	SCSF06AA-V-UJM	SUR-024-R	* 1E-LOSP	* PC02AAAX-R00-LFO	*	
622	290	6	4.29E-11	0.86416	AP040X2-R00-LFO	/CONT-LEAK	* 1E-LOSP	* RA-8-27H	*	
623	295	7	4.29E-11	0.86458	RHRF51AA-N-UJM	SUR-024-R	* FLOW-RHR-A3	* 1E-LOSP	*	
624	296	6	4.29E-11	0.86499	AP039X2-R00-LFO	/CONT-LEAK	* SUR-024-R	* NAVY01AA-N-UJM	*	
625	292	6	4.29E-11	0.86540	AP039X2-R00-LFO	/CONT-LEAK	* 1E-LOSP	* RA-8-27H	*	
626	317	6	4.27E-11	0.86581	RHRF65AA-N-UJM	SUR-024-R	* 1E-LOSP	* RA-8-27H	*	
627	322	7	4.14E-11	0.86621	AP040X2-R00-LFO	PHRF48AA-V-UJM	* 1E-LOSP	* EE-MOP-PSM-BC-R	* 1E-1101	*
628	321	7	4.14E-11	0.86661	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* DG0-GEN-LF-FTS	* 1E-LOSP	*
629	320	7	4.14E-11	0.86701	RA-R-27H	/CONT-LEAK	* 1E-LOSP	* SUR-024-R	* 1E-LOSP	*
630	318	7	4.14E-11	0.86740	AP040X2-R00-LFO	/CONT-LEAK	* 1E-LOSP	* DG0-GEN-LF-FTS	* 1E-LOSP	*
631	319	7	4.14E-11	0.86780	RHRF7AA-V-UJM	SUR-024-R	* 1E-LOSP	* DG0-GEN-LF-FTS	* 1E-LOSP	*
632	323	6	3.98E-11	0.86818	C20G01F-PLG-LF	/CONT-LEAK	* 1E-1101	* RA-1-1-27H	*	*
633	324	7	3.91E-11	0.86856	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
634	328	7	3.91E-11	0.86894	/CONT-LEAK	RA-9-27H	* 1E-LOSP	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
635	327	7	3.91E-11	0.86931	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* EE-CSD300B-PLG	* 1E-LOSP	*
636	326	7	3.91E-11	0.86969	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* EE-CSD300A-PLG	* 1E-LOSP	*
637	325	7	3.91E-11	0.87006	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* SUR-024-R	* 1E-LOSP	*
638	332	7	3.86E-11	0.87043	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
639	329	7	3.86E-11	0.87080	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* SUR-024-R	* RA-8-27H	*
640	331	7	3.86E-11	0.87118	RA-9-27H	SEVY03CB-FMS-LF	* 1E-LOSP	* SUR-024-R	* 1E-LOSP	*
641	330	7	3.86E-11	0.87155	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* DG2V03CB-FMS-LF	* 1E-LOSP	*
642	337	6	3.68E-11	0.87190	RA-8-27H	/CONT-LEAK	* 1E-LOSP	* SUR-024-R	* NAVY01CA-FMS-LF	*
643	336	6	3.68E-11	0.87225	RA-1-1-27H	/CONT-LEAK	* 1E-1101	* EE-MOP-PSM-BC-R	* 1E-1101	*
644	669				SEVY03CB-F-UJM	SUR-023-R	* 1E-1101	* RA-1-1-27H	*	*

670	334	6	3.68E-11	0.87261	/CONT-LEAK	EE-MOP-PSW-BC-R	1E-1101	RA-1-1-27H	*	
671	335	7	3.68E-11	0.87296	RHR018B-800-LF	SUR-023-R	FLOW-RHR-83	1E-1101	*	
672	335	6	3.68E-11	0.87332	/CONT-LEAK	EE-MOP-PSW-BC-R	SUR-023-R	1E-1101	*	
673	340	7	3.61E-11	0.87366	RA-1-1-27H	RHRF488B-V00-LF	EE-MOP-PSW-BC-R	1E-1101	*	
674	339	7	3.61E-11	0.87401	/CONT-LEAK	CSCF068B-VCC-LF	CRD1-REALIGN-7E	CRD1-REALIGN-OE	*	
675	338	7	3.61E-11	0.87435	RA-1-1-27H	SUR-023-R	SUR-023-R	1E-11	*	
676	342	6	3.60E-11	0.87470	1EB236B-800-LF	/CONT-LEAK	CRD1-REALIGN-OE	1E-11	*	
677	341	6	3.60E-11	0.87505	NAVY01CA-PMS-CC	RA-NONE	SUR-023-R	NAVY01CA-ACK-LFI	*	
678	348	7	3.57E-11	0.87539	1EB236B-800-LF	RA-NONE	1E-LOSP	RA-8-27H	*	
679	341	6	3.60E-11	0.87505	RA-NONE	DG2A-G-UUM	1E-LOSP	RA-8-27H	*	
680	342	6	3.60E-11	0.87470	/CONT-LEAK	SUR-024-R	1E-LOSP	RA-8-27H	*	
681	341	6	3.60E-11	0.87505	RA-8-27H	DG0-G-UUM	1E-LOSP	RA-8-27H	*	
682	348	7	3.57E-11	0.87539	/CONT-LEAK	SUR-024-R	1E-LOSP	RA-8-27H	*	
683	347	7	3.57E-11	0.87574	SEVY03AX-ACK-LFI	DG0-GEN-LF-FTS	1E-LOSP	RA-8-27H	*	
684	346	7	3.57E-11	0.87608	/CONT-LEAK	SEVY03CB-F-UUM	1E-LOSP	NAVY01CA-F-UUM	*	
685	345	7	3.57E-11	0.87642	RA-9-27H	DG2A-GEN-LF-FTS	1E-LOSP	NAVY01CA-F-UUM	*	
686	345	7	3.57E-11	0.87642	/CONT-LEAK	RHR018B-800-LF	1E-LOSP	NAVY01CA-F-UUM	*	
687	344	8	3.57E-11	0.87677	RA-8-27H	RA-9-27H	SUR-024-R	1E-LOSP	NAVY01CA-F-UUM	*
688	343	8	3.57E-11	0.87711	/CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP	NAVY01CA-F-UUM	*	
689	346	7	3.57E-11	0.87745	RA-8-27H	DG0-GEN-LF-FTS	1E-LOSP	NAVY01CA-F-UUM	*	
690	365	7	3.57E-11	0.87780	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
691	364	7	3.57E-11	0.87814	1EB413A-800-LF	/CONT-LEAK	1E-LOSP	NAVY01CA-F-UUM	*	
692	364	7	3.57E-11	0.87814	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
693	362	7	3.57E-11	0.87848	/CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	NAVY01CA-F-UUM	*	
694	361	7	3.57E-11	0.87883	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
695	360	7	3.57E-11	0.87917	/CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	NAVY01CA-F-UUM	*	
696	359	7	3.57E-11	0.87951	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
697	358	7	3.57E-11	0.87986	/CONT-LEAK	DG0V02YA-M-UUM	1E-LOSP	NAVY01CA-F-UUM	*	
698	357	7	3.57E-11	0.88020	RA-8-27H	DG0V01YA-M-UUM	1E-LOSP	NAVY01CA-F-UUM	*	
699	356	7	3.57E-11	0.88054	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
700	355	7	3.57E-11	0.88089	1EB236B-800-LF	/CONT-LEAK	1E-LOSP	NAVY01CA-F-UUM	*	
701	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
702	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
703	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
704	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
705	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
706	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
707	354	7	3.57E-11	0.88123	1EB236B-800-LF	/CONT-LEAK	1E-LOSP	NAVY01CA-F-UUM	*	
708	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
709	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
710	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
711	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
712	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
713	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
714	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
715	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
716	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
717	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
718	354	7	3.57E-11	0.88123	1EB423B-800-LF	/CONT-LEAK	1E-LOSP	NAVY01CA-F-UUM	*	
719	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
720	354	7	3.57E-11	0.88123	/CONT-LEAK	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	
721	354	7	3.57E-11	0.88123	RA-8-27H	RA-9-27H	1E-LOSP	NAVY01CA-F-UUM	*	

722	353	7	3.57E-11	0.88157	1E842A-BCC-LF	/CONT-LEAK	RA-8-27H	RA-9-27H	DG2A-GEN-LF-FTS	1E-LOSP	*
723	363	7	3.57E-11	0.88192	RA-8-27H	/CONT-LEAK	DG0031A-M-UJM	RA-9-27H	SUR-024-R	1E-LOSP	*
724	352	7	3.57E-11	0.88226	1E842B-BCC-LF	RA-8-27H	RA-9-27H	/CONT-LEAK	SUR-024-R	1E-LOSP	*
725	351	7	3.57E-11	0.88260	RA-8-27H	RA-9-27H	/CONT-LEAK	DG0-GEN-LF-FTS	SUR-024-R	1E-LOSP	*
726	350	7	3.57E-11	0.88295	1E842B-BCC-LF	RA-8-27H	RA-9-27H	/CONT-LEAK	DG2A-GEN-LF-FTS	1E-LOSP	*
727	349	7	3.57E-11	0.88329	2D01PK18-R00-LFO	RA-8-27H	RA-9-27H	/CONT-LEAK	DG0-GEN-LF-FTS	1E-LOSP	*
728	348	6	3.19E-11	0.88360	/CONT-LEAK	RHR01AX-R1X-LFB	EE-C2D001F-PLG	RA-9-27H	SUR-024-R	RA-8-27H	*
729	367	6	3.19E-11	0.88390	/CONT-LEAK	RHR018X-R1X-LFB	EE-C00G01F-PLG	SUR-024-R	1E-LOSP	RA-8-27H	*
730	372	7	3.19E-11	0.88421	1E411A-V-UJM	/CONT-LEAK	SCSF06AA-DENER	SUR-024-R	1E-1102	RA-NONE	*
731	369	6	3.19E-11	0.88452	RA-NONE	RA-NONE	CO0G01P-P-UJM	SUR-023-R	/CONT-LEAK	1E-1102	*
732	373	6	3.19E-11	0.88482	1E411A-V-UJM	A-NONE	1E411A-V-UJM	/CONT-LEAK	1E-1102	LCSC002A-P-UJM	*
733	371	6	3.19E-11	0.88513	1E421B-V-UJM	/CONT-LEAK	RA-NONE	SUR-023-R	1E-1101	RA-NONE	*
734	375	6	3.19E-11	0.88543	RHR025B-P-UJM	1E421B-V-UJM	RHR025B-P-UJM	SUR-023-R	/CONT-LEAK	1E-1101	*
735	374	6	3.19E-11	0.88574	RA-NONE	RA-NONE	1E411A-V-UJM	SUR-023-R	1E-1102	RA-NONE	*
736	370	7	3.19E-11	0.88605	1E421B-V-UJM	RA-NONE	1E421B-V-UJM	/CONT-LEAK	1E-1101	RA-NONE	*
737	382	7	3.17E-11	0.88635	/CONT-LEAK	RA-8-27H	RA-9-27H	DG2A-GEN-CC-FTS	1E-LOSP	LCSC002A-P-UJM	*
738	381	7	3.17E-11	0.88666	/CONT-LEAK	RA-8-27H	RA-9-27H	DG0-GEN-CC-FTS	SUR-024-R	RA-8-27H	*
739	380	7	3.17E-11	0.88696	CO0G01P-P-UJM	RA-8-27H	RA-9-27H	RHR025B-P-UJM	SUR-024-R	1E-LOSP	*
740	379	8	3.17E-11	0.88727	/CONT-LEAK	RA-9-27H	RA-9-27H	DG0-GEN-CC-FTS	SUR-024-R	RA-8-27H	*
741	378	7	3.17E-11	0.88757	/CONT-LEAK	RA-9-27H	RA-9-27H	RHR025B-P-UJM	SUR-024-R	1E-LOSP	*
742	377	8	3.17E-11	0.88788	/CONT-LEAK	RA-9-27H	RA-9-27H	DG2A-GEN-CC-FTS	1E-LOSP	RA-8-27H	*
743	376	7	3.17E-11	0.88818	CO0G01P-P-UJM	RA-9-27H	RA-9-27H	RHR025B-P-UJM	SUR-024-R	SUR-024-R	*
744	367	7	3.15E-11	0.88848	CO0G01F-PLG-LF	RA-8-27H	RA-9-27H	/CONT-LEAK	DG2A-GEN-LF-FTR	1E-LOSP	*
745	386	7	3.15E-11	0.88879	CO0G01F-PLG-LF	RA-8-27H	RA-9-27H	/CONT-LEAK	SUR-024-R	1E-LOSP	*
746	38	7	3.15E-11	0.88909	/CONT-LEAK	RA-8-27H	RA-9-27H	DG0-GEN-LF-FTR	SUR-024-R	1E-LOSP	*
747	394	7	3.15E-11	0.88939	1E10ARC-R00-LFO	RA-8-27H	RA-9-27H	/CONT-LEAK	DG0-GEN-LF-FTR	1E-LOSP	*
748					RA-8-27H	RA-9-27H	RA-9-27H	RA-9-27H	SUR-024-R		*

774	383	7	3.15E-11	0.88070	/CONT-LEAK	* DGV01FX-CLN-LFB	* DG2A-GEN-LF-FTR	* IE-LOSP
775					RA-8-27H	* RA-9-27H	SUR-024-R	
776	391	6	3.09E-11	0.88999	/CONT-LEAK	* DG2A-G-UUM	EE-CSCD300A-PLG	IE-LOSP
777					RA-8-27H	* SUR-024-R		
778	390	6	3.09E-11	0.89029	/CONT-LEAK	* DGD-6-UUM	EE-C2DG01F-PLG	IE-LOSP
779					RA-8-27H	* SUR-024-R		
780	389	6	3.09E-11	0.89059	/CONT-LEAK	* DG2A-G-UUM	EE-CUG601F-PLG	IE-LOSP
781					RA-8-27H	* SUR-024-R		
782	388	6	3.09E-11	0.89088	/CONT-LEAK	* DGD-6-UUM	EE-CSCD300B-PLG	IE-LOSP
783					RA-8-27H	* SUR-024-R		
784	393	7	2.96E-11	0.89117	/CONT-LEAK	* SUR-024-R		
785					RA-8-27H	* DGD-GEN-CC-FTS	DG2A-GEN-CC-FTR	IE-LOSP
786	392	7	2.96E-11	0.89145	/CONT-LEAK	* RA-9-27H	SUR-024-R	
787					RA-8-27H	* DGD-GEN-CC-FTR	DG2A-GEN-CC-FTS	IE-LOSP
788	394	7	2.95E-11	0.89173	/CONT-LEAK	* RA-9-27H	SUR-024-R	
789					LAK708RB-RCD-LFO	* FE-MDP-PSM-BC-R	IE-T101	LAK2BRCE-RCD-LFO
790	398	7	2.93E-11	0.89202	/CONT-LEAK	* RA-1-1-27H	SUR-023-R	
791					RA-8-27H	* DG2A-GEN-LF-FTR	IE-LOSP	NAVY01CA-FMS-LF
792	397	7	2.93E-11	0.89230	/CONT-LEAK	* RA-9-27H	SUR-024-R	
793					RA-8-27H	* DGDV01CA-FMS-LF	DG2A-GEN-LF-FTR	IE-LOSP
794	396	7	2.93E-11	0.89258	/CONT-LEAK	* RA-9-27H	SUR-024-R	
795					RA-8-27H	* DGD-GEN-LF-FTR	DG2V03CB-FMS-LF	IE-LOSP
796	395	7	2.93E-11	0.89286	/CONT-LEAK	* RA-9-27H	SUR-024-R	
797					RA-8-27H	* DGD-GEN-LF-FTR	IE-LOSP	RA-8-27H
798	400	6	2.93E-11	0.89314	/CONT-LEAK	* SEVY03CP-FMS-LF	SUR-024-R	
799					RLOSP	* CSCD300B-PLG-LF	IE-T101	RA-NONE
800	399	6	2.93E-11	0.89342	/CONT-LEAK	* SUR-024-R		
801					RLOSP	* CSCD300A-PLG-LF	IE-T102	RA-NONE
802	402	8	2.86E-11	0.89370	/CONT-LEAK	* SUR-024-R		
803					IE-LOSP	* DDMB102X-BCD-LF	DGV8202X-BCD-LF	DG2A-GEN-LF-FTS
804	401	8	2.86E-11	0.89397	/CONT-LEAK	* RA-8-27H	RA-9-27H	SUR-024-R
805					IE-LOSP	* DDMB101X-BCD-LF	DGV8201X-BCD-LF	JG2A-GEN-LF-FTS
806	415	7	2.71E-11	0.89423	/CONT-LEAK	* RA-8-27H	RA-9-27H	SUR-024-R
807					/CONT-LEAK	* RA-9-27H	DG2A-GEN-LF-FTR	IE-LOSP
808	420	7	2.71E-11	0.89450	/CONT-LEAK	* RA-9-27H	SUR-024-R	
809					1E8423B-VCC-LF	* CSCF068A-VCC-LF	DG2A-GEN-LF-FTR	IE-LOSP
810	418	7	2.71E-11	0.89476	/CONT-LEAK	* RA-8-27H	SUR-024-R	
811					1E8423B-BOO-LF	* /CONT-LEAK	DGD-GEN-LF-FTR	IE-LOSP
812	417	7	2.71E-11	0.89502	/CONT-LEAK	* RA-9-27H	SUR-024-R	
813					RA-8-27H	* /CONT-LEAK	DGD-GEN-LF-FTR	IE-LOSP
814	416	7	2.71E-11	0.89528	/CONT-LEAK	* RA-9-27H	SUR-024-R	
815					RA-8-27H	* DGD-GEN-LF-FTR	DG2V03CB-F-UUM	IE-LOSP
816	414	7	2.71E-11	0.89554	/CONT-LEAK	* RA-9-27H	SUR-024-R	
817					1E8412A-BCC-LF	* /CONT-LEAK	DG2V11YR-M-UUM	IE-LOSP
818	413	7	2.71E-11	0.89580	/CONT-LEAK	* RA-8-27H	SUR-024-R	
819					RA-8-27H	* /CONT-LEAK	DG2A-GEN-LF-FTR	IE-LOSP
820	412	7	2.71E-11	0.89606	/CONT-LEAK	* RA-9-27H	SUR-024-R	
821					RA-8-27H	* DGDV01CA-F-UUM	DG2A-GEN-LF-FTR	IE-LOSP
822	419	7	2.71E-11	0.89632	/CONT-LEAK	* RA-9-27H	SUR-024-R	
823					RA-8-27H	* CSCF068B-VCC-LF	DGD-GEN-LF-FTR	IE-LOSP
824	411	7	2.71E-11	0.89658	/CONT-LEAK	* RA-9-27H	SUR-024-R	
825					1E8234B-BCC-LF	* /CONT-LEAK	DGD-GEN-LF-FTR	IE-LOSP
					RA-8-27H	* RA-9-27H	SUR-024-R	

826	410	7	2.71E-11	0.89684	/CONT-LEAK	* DGGV031A-M-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP
827					RA-8-27H	* RA-9-27H	* SUR-024-R	*
828	409	7	2.71E-11	0.89710	ZDG19K18-R00-LFO	* /CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP
829					RA-8-27H	* RA-9-27H	* SUR-024-R	*
830	408	7	2.71E-11	0.89737	1E8413A-800-LF	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP
831					RA-8-27H	* RA-9-27H	* SUR-024-R	*
832	407	7	2.71E-11	0.89763	1E8233A-8CC-LF	* /CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP
833					RA-8-27H	* RA-9-27H	* SUR-024-R	*
834	406	7	2.71E-11	0.89789	/CONT-LEAK	* DGGV01YA-M-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP
835					RA-8-27H	* RA-9-27H	* SUR-024-R	*
836	405	7	2.71E-11	0.89815	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2M10YB-M-UUM	* 1E-LOSP
837					RA-8-27H	* RA-9-27H	* SUR-024-R	*
838	404	7	2.71E-11	0.89841	1E8422B-8CC-LF	* /CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP
839					RA-8-27H	* RA-9-27H	* SUR-024-R	*
840	403	7	2.71E-11	0.89867	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2V09YB-M-UUM	* 1E-LOSP
841					RA-8-27H	* RA-9-27H	* SUR-024-R	*
842	426	7	2.71E-11	0.89893	/CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H
843					RA-9-27H	* RHR801BB-800-LF	* SUR-024-R	*
844	424	7	2.71E-11	0.89919	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H
845					RA-9-27H	* RHR801AA-800-LF	* SUR-024-R	*
846	423	7	2.71E-11	0.89945	/CONT-LEAK	* DGO-GEN-LF-FTR	* 1E-LOSP	* RA-8-27H
847					RA-9-27H	* SEVY03CB-F-UUM	* SUR-024-R	*
848	422	7	2.71E-11	0.89971	/CONT-LEAK	* DG2A-GEN-LF-FTR	* 1E-LOSP	* NAVY01CA-F-UUM
849					RA-8-27H	* RA-9-27H	* SUR-024-R	*
850	425	8	2.71E-11	0.89997	/CONT-LEAK	* DGO-GEN-LF-FTR	* FLOW-RHR-83	* 1E-LOSP
851					RA-8-27H	* RA-9-27H	* RHRF48BB-V00-LF	* SUR-024-R
852	421	8	2.71E-11	0.90023	/CONT-LEAK	* DG2A-GEN-LF-FTR	* FLOW-RHR-A3	* 1E-LOSP
853					RA-8-27H	* RA-9-27H	* RHRF48AA-V00-LF	* SUR-024-R
854	450	6	2.69E-11	0.90049	/CONT-LEAK	* 1E-1102	* RA-NONE	* RHR022AA-PMS-LF
855					RLOSP	* TUR-024-R	*	*
856	429	6	2.69E-11	0.90075	CZD001P-PMS-LF	* /CONT-LEAK	* 1E-1101	* RA-NONE
857					RLOSP	* SUR-024-R	*	*
858	428	6	2.69E-11	0.90101	C00G01P-PMS-LF	* /CONT-LEAK	* 1E-1102	* RA-NONE
859					RLOSP	* SUR-024-R	*	*
860	427	6	2.69E-11	0.90127	/CONT-LEAK	* 1E-1101	* RA-NONE	* RHR022BB-PMS-LF
861					RLOSP	* SUR-024-R	*	*
862	431	6	2.68E-11	0.90152	1E816212-8CC	* 2C11C001B-F-UUM	* /CONT-LEAK	* 1E-1101
863					RA-NONE	* SUR-023-R	*	*
864	437	6	2.66E-11	0.90178	1E41YA-V-UUM	* /CONT-LEAK	* 1E-1102	* RA-NONE
865					RHR801AA-800-CC	* SUR-023-R	*	*
866	436	6	2.66E-11	0.90204	1E42YB-V-UUM	* /CONT-LEAK	* 1E-1101	* RA-NONE
867					RHR801BB-800-CC	* SUR-023-R	*	*
868	435	6	2.66E-11	0.90229	1E41YA-V-UUM	* C00G01P-PMS-CC	* /CONT-LEAK	* 1E-1102
869					RA-NONE	* SUR-023-R	*	*
870	434	6	2.66E-11	0.90255	1E41YA-V-UUM	* /CONT-LEAK	* 1E-1102	* NAVY01CA-FMS-CC
871					RA-NONE	* SUR-023-R	*	*
872	433	6	2.66E-11	0.90280	1E42YB-V-UUM	* /CONT-LEAK	* 1E-1101	* RA-NONE
873					SEVY03CB-FMS-CC	* SUR-023-R	*	*
874	432	6	2.66E-11	0.90306	1E42YB-V-UUM	* C2D001P-PMS-CC	* /CONT-LEAK	* 1E-1101
875					RA-NONE	* SUR-023-R	*	*
876	441	7	2.64E-11	0.90331	/CONT-LEAK	* DGO-GEN-CC-F'S	* 1E-LOSP	* RA-8-27H
877					RA-9-27H	* RHR801BB-800-CC	* SUR-024-R	*



SEQUENCE 130

TOP EVENT PDSC-T-SEQ3AC CONTAINS 40 EVENTS IN 78 OUT SETS

THE FREQUENCY OF TOP EVENT PDSC-T-SEQ3AC IS 6.62E-12

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT PDSC-T-SEQ3AC

N	300
MEAN	2.99E-11
STD DEV	2.69E-10
LOWER 5%	2.05E-15
LOWER 45%	3.07E-14
MEDIAN	3.20E-13
UPPER 25%	2.14E-12
UPPER 5%	3.79E-11

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

TEF(J) = FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF \cdot TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) \cdot TEF$

SEQUENCE 130  
RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		LOWER 5%	UPPER 5%
			REDUCT'N (RANK)	REDUCT'N (RANK)		
SUR-004-V	67	1.40E-03 ( 25.0)	5.68E-12 ( 1.0)	3.66E-16	2.36E-11	
TEB50B-BCO-LF	46	7.20E-05 ( 33.0)	4.87E-12 ( 2.0)	4.16E-16	1.89E-11	
RA-1-1-27H	32	2.10E-03 ( 20.5)	4.19E-12 ( 3.0)	4.25E-17	8.43E-12	
HACTK9-ROO-LFO	37	2.00E-02 ( 9.0)	2.81E-12 ( 4.0)	7.70E-17	7.68E-12	
HACTK3-ROO-LFO	35	2.00E-02 ( 9.0)	2.75E-12 ( 5.0)	7.14E-17	7.40E-12	
LAK10RCA-ROO-LFO	16	2.00E-02 ( 9.0)	1.35E-12 ( 1.0)	1.38E-17	2.60E-12	
LAKVARCA-ROO-LFO	16	2.00E-02 ( 9.0)	1.35E-12 ( 7.0)	1.38E-17	2.65E-12	
LAK18ARA-ROO-LFO	16	2.00E-02 ( 9.0)	1.35E-12 ( 7.0)	1.35E-17	2.60E-12	
LAK93ARC-ROO-LFO	16	2.78E-02 ( 9.0)	1.27E-12 ( 9.5)	1.21E-17	3.93E-12	
FLOW-RRR-A3	16	1.00E+00 ( 1.5)	1.27E-12 ( 9.5)			
TDRFP-1-DE-27H	27	2.60E-03 ( 14.5)	1.01E-12 ( 11.0)	3.60E-18	4.56E-12	
CSD0100-PLG-LF	3	5.80E-04 ( 31.0)	9.45E-13 ( 12.0)	4.87E-17	4.93E-12	
RA-1-3-27H	18	2.69E-03 ( 14.5)	7.95E-13 ( 13.0)	2.40E-17	4.16E-12	
CSD0300A-PLG-LF	4	1.20E-03 ( 27.5)	6.87E-13 ( 14.0)	3.77E-17	3.29E-12	
RA-2-11-27H	2	1.60E-03 ( 23.0)	5.79E-13 ( 15.0)	4.87E-18	1.20E-12	
SUR-003-V	8	1.40E-03 ( 25.0)	5.55E-13 ( 16.0)	4.03E-16	2.10E-12	
FLOW-RRR-B3	8	1.00E+00 ( 1.5)	3.16E-13 ( 17.5)			
LAK93BRC-ROO-LFO	8	2.00E-02 ( 9.0)	3.16E-13 ( 17.5)	1.49E-19	1.48E-12	
SUR-002-V	1	1.40E-03 ( 25.0)	3.15E-13 ( 20.5)	1.62E-17	1.64E-12	
CSD0300B-PLG-LF	1	1.20E-03 ( 27.5)	3.15E-13 ( 20.5)	1.62E-17	1.64E-12	
1ER235A-BCO-LF	1	7.20E-05 ( 33.0)	3.15E-13 ( 20.7)	1.62E-17	1.64E-12	
1ER236B-BCO-LF	1	7.20E-05 ( 33.0)	3.15E-13 ( 20.5)	1.62E-17	1.64E-12	
LAK188RB-ROO-LFO	8	2.00E-02 ( 9.0)	2.98E-13 ( 23.5)	1.41E-19	8.44E-13	
LAK93RCB-ROO-LFO	8	2.00E-02 ( 9.0)	2.98E-13 ( 23.5)	1.41E-19	8.44E-13	
LPCI-BETA	4	1.10E-01 ( 3.0)	1.72E-13 ( 25.0)	1.89E-17	5.61E-13	
LPCI-PMS-OM	3	2.50E-03 ( 17.0)	1.40E-13 ( 26.0)	1.41E-17	5.31E-13	
CDD001P-PMS-LF	2	1.10E-03 ( 29.5)	7.77E-14 ( 27.5)	3.13E-18	7.11E-14	
SUR-001-V	2	2.10E-03 ( 29.5)	7.77E-14 ( 27.5)	3.13E-18	7.11E-14	
LPCI-PMS-OM2	2	2.50E-03 ( 17.0)	5.26E-14 ( 29.0)	5.71E-16	1.68E-13	
LPCI-MOV YETA	2	3.00E-02 ( 4.0)	4.19E-14 ( 30.0)	2.65E-18	8.13E-14	
PHR020A-PMS-LF	1	1.10E-03 ( 29.5)	2.59E-14 ( 31.0)	6.04E-19	2.80E-14	
LPCI-MGV-CM1	1	2.50E-03 ( 17.0)	2.10E-14 ( 32.0)	1.23E-18	4.06E-14	
OPFAIL-VENT-6H	30	2.10E-03 ( 20.5)	-2.37E-15 ( 33.0)	-1.13E-14	-4.30E-20	
RA-5V-1-6H	48	2.15E-03 ( 20.5)	-1.16E-14 ( 34.0)	-5.18E-14	-2.97E-19	

SEQUENCE 130  
RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%
1EB36YB-BCO-LF	46	7.20E-05 ( 33.0)	6.76E-08 ( 1.0)	3.09E-11	4.93E-07
1EB235A-BCO-LF	1	7.20E-05 ( 33.0)	4.38E-09 ( 2.5)	7.15E-13	3.12E-08
1EB236B-BCO-LF	1	7.20E-05 ( 33.0)	4.38E-09 ( 2.5)	7.15E-13	3.12E-08
SUR-004-V	67	1.40E-03 ( 25.0)	4.05E-09 ( 4.0)	1.87E-12	2.83E-08
RA-1-1-27H	52	2.10E-03 ( 20.5)	1.99E-09 ( 5.0)	4.54E-14	1.10E-08
CSCD300-PLG-LF	3	5.80E-04 ( 31.0)	1.63E-09 ( 6.0)	9.28E-13	5.22E-09
CSCD300A-PLG-LF	4	1.20E-03 ( 27.5)	5.71E-10 ( 7.0)	3.32E-13	1.80E-09
SUR-003-V	8	1.40E-03 ( 25.0)	3.96E-10 ( 8.0)	2.15E-12	2.83E-09
TDRFP-1-0E-27H	27	2.60E-03 ( 14.5)	3.86E-10 ( 9.0)	8.04E-13	3.49E-09
RA-2-11-27H	2	1.60E-03 ( 23.0)	3.62E-10 ( 10.0)	9.20E-15	1.76E-09
RA-1-3-27H	18	2.60E-03 ( 14.5)	3.05E-10 ( 11.0)	5.12E-14	1.59E-09
CSCD300B-PLG-LF	1	1.20E-03 ( 27.5)	2.62E-10 ( 12.0)	1.48E-13	8.28E-10
SUR-002-V	1	1.40E-03 ( 25.0)	2.25E-10 ( 13.0)	4.53E-14	1.89E-09
PACTK9-ROO-LFO	37	2.00E-02 ( 9.0)	1.30E-10 ( 14.0)	5.46E-14	3.89E-10
PACTK3-ROO-LFO	35	2.00E-02 ( 9.0)	1.35E-10 ( 15.0)	4.91E-14	3.76E-10
CDD611P-PMS-LF	2	1.10E-03 ( 29.5)	7.05E-11 ( 16.0)	8.96E-15	1.27E-10
LAK10ARA-ROO-LFO	16	2.00E-02 ( 9.0)	6.59E-11 ( 18.0)	9.15E-15	1.44E-10
LAK10RCA-ROO-LFO	16	2.00E-02 ( 9.0)	6.59E-11 ( 18.0)	9.15E-15	1.44E-10
LAK9ARCA-ROO-LFO	16	2.00E-02 ( 9.0)	6.21E-11 ( 20.0)	6.77E-15	1.94E-10
LAK93ARC-ROO-LFO	16	2.00E-02 ( 9.0)	5.59E-11 ( 21.0)	2.90E-14	2.61E-10
LPCI-PMS-CM	3	2.50E-03 ( 17.0)	5.69E-11 ( 22.0)	7.63E-15	5.43E-11
SUR-001-V	2	1.10E-03 ( 29.5)	2.35E-11 ( 23.0)	1.36E-15	4.09E-11
RHRC2AA-PMS-LF	1	1.10E-03 ( 29.5)	2.10E-11 ( 24.0)	1.24E-14	1.25E-10
LPCI-MOV-CM2	2	2.50E-03 ( 17.0)	1.55E-11 ( 25.0)	1.80E-16	6.06E-11
LAK38RC-ROO-LFO	8	2.00E-02 ( 9.0)	1.46E-11 ( 26.5)	1.14E-16	2.55E-11
LAK188RC-ROO-LFO	8	2.00E-02 ( 9.0)	1.46E-11 ( 26.5)	1.14E-16	2.55E-11
LAK98RCB-ROO-LFO	8	2.00E-02 ( 9.0)	8.35E-12 ( 28.0)	2.77E-15	1.95E-11
LPCI-MOV-CH	1	2.50E-03 ( 17.0)	1.39E-12 ( 29.0)	2.25E-16	4.20E-12
LPCI-BETA	4	1.10E-01 ( 3.0)	1.36E-12 ( 30.0)	9.76E-17	2.87E-12
LPCI-MOV-BETA	2	3.00E-02 ( 4.0)	0.00E+00 ( 31.5)		
FLOW-RWR-B3	8	1.00E+00 ( 1.5)	0.00E+00 ( 31.5)		
FLOW-RWR-A3	16	1.00E+00 ( 1.5)	-1.12E-12 ( 33.0)	-4.96E-12	-1.02E-16
OFFAIL-VEN	30	2.10E-03 ( 20.5)	-5.50E-12 ( 34.0)	-2.70E-11	-6.68E-16
RA-5V-1-6H	48	2.10E-03 ( 20.5)			



SEQUENCE 130

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 WITH TOP EVENT POSC-T-BEQ3AC WITH TOP EVENT FREQUENCY 6.62E-12

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	7	3.80E-13	0.05741	TEB36YB-BCD-LF	HACTK5-ROO-LFO	IE-T1	LAKTORCA-ROO-LFO
3					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
4	4	7	3.80E-13	0.11481	TEB36YB-BCD-LF	HACTK9-ROO-LFO	IE-T1	LAKVARCA-ROO-LFO
5					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
6	3	7	3.80E-13	0.17222	TEB36YB-BCD-LF	HACTK9-ROG-LFO	IE-T1	LAK18ARA-ROO-LFO
7					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
8	5	7	3.80E-13	0.22962	TEB36YB-BCD-LF	HACTK9-ROO-LFO	IE-T1	LAKTORCA-ROO-LFO
9					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
10	2	7	3.80E-13	0.28703	TEB36YB-BCD-LF	HACTK3-ROO-LFO	IE-T1	LAK18ARA-ROO-LFO
11					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
12	6	7	3.80E-13	0.34443	TEB36YB-BCD-LF	HACTK3-ROO-LFO	IE-T1	LAKVARCA-ROO-LFO
13					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
14	7	6	3.15E-13	0.39200	TEB235A-BCD-LF	CSCD300-PLG-LF	CSCD300B-PLG-LF	IE-T1
15					/RA-5V-1-6H	SUR-002-V		
16	8	6	3.15E-13	0.43956	TEB236B-BCD-LF	CSCD300-PLG-LF	CSCD300A-PLG-LF	IE-T1
17					/RA-5V-1-6H	SUR-003-V		
18	9	6	3.15E-13	0.48713	TEB36YB-BCD-LF	CSCD300-PLG-LF	CSCD300A-PLG-LF	IE-T1
19					/A-5V-1-6H	SUR-004-V		
20	11	8	2.90E-13	0.53066	TEB36YB-BCD-LF	FLOW-RHR-A3	HACTK9-ROO-LFO	IE-T1
21					LAK3ARC-ROO-LFO	RA-2-11-27H	/RA-5V-1-6H	SUR-004-V
22	10	8	2.90E-13	0.57460	TEB36YB-BCD-LF	FLOW-RHR-A7	HACTK3-ROO-LFO	IE-T1
23					LAK93ARC-ROO-LFO	RA-2-11-27H	/RA-5V-1-6H	SUR-004-V
24	12	5	7.68E-14	0.58620	IE-T15A	LPCI-BETA	LPCI-PMS-DM	/OPFAIL-VENT-6H
25					SUR-003-V			
26	13	5	6.39E-14	0.59584	TEB36YB-BCD-LF	FLOW-RHR-A3	HACTK9-ROO-LFO	IE-T3
27					LAK93ARC-ROO-LFO	RA-1-3-27H	/RA-5V-1-6H	SUR-004-V
28	14	8	6.38E-14	0.60547	TEB36YB-BCD-LF	FLOW-RHR-A3	HACTK3-ROO-LFO	IE-T3
29					LAK93ARC-ROO-LFO	RA-1-3-27H	/RA-5V-1-6H	SUR-004-V
30	15	8	6.28E-14	0.61495	TEB36YB-BCD-LF	FLOW-RHR-A3	HACTK9-ROO-LFO	IE-T5
31					LAK93ARC-ROO-LFO	RA-1-3-27H	/RA-5V-1-6H	SUR-004-V
32	16	8	6.28E-14	0.62442	TEB36YB-BCD-LF	FLOW-RHR-A3	HACTK3-ROO-LFO	IE-T5
33					LAK93ARC-ROO-LFO	RA-1-3-27H	/RA-5V-1-6H	SUR-004-V
34	18	8	5.44E-14	0.63264	TEB36YB-BCD-LF	FLOW-RHR-A3	HACTK3-ROO-LFO	IE-T2
35					LAK93ARC-ROO-LFO	RA-1-3-27H	/RA-5V-1-6H	SUR-004-V
36	17	8	5.44E-14	0.64085	TEB36YB-BCD-LF	FLOW-RHR-A3	HACTK9-ROO-LFO	IE-T2
37					LAK93ARC-ROO-LFO	RA-1-3-27H	/RA-5V-1-6H	SUR-004-V
38	24	7	5.15E-14	0.64603	TEB36YB-BCD-LF	HACTK9-ROO-LFO	IE-T3	LAK18ARA-ROO-LFO
39					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
40	23	7	5.15E-14	0.65641	TEB36YB-BCD-LF	HACTK9-ROO-LFO	IE-T3	LAKTORCA-ROO-LFO
41					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
42	22	7	5.15E-14	0.66419	TEB36YB-BCD-LF	HACTK3-ROO-LFO	IE-T3	LAKTORCA-ROO-LFO
43					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	
44	20	7	5.15E-14	0.67198	TEB36YB-BCD-LF	HACTK3-ROO-LFO	IE-T3	LAKVARCA-ROO-LFO
45					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	



98	57	8	3.72E-14	0.81996	HACTK3-R00-LFO	1E-13	LAKTORCA-R00-LFO	LAK9BRC-R00-LFO
99					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
100	56	8	3.72E-14	0.84558	HACTK9-R00-LFO	1E-13	LAKTORCA-R00-LFO	LAK1B8B-R00-LFO
101					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
102	54	8	3.72E-14	0.85120	HACTK9-R00-LFO	1E-13	LAK1B8A-R00-LFO	LAK1B8B-R00-LFO
103					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
104	53	8	3.72E-14	0.85682	HACTK9-R00-LFO	1E-13	LAKTORCA-R00-LFO	LAK9BRC-R00-LFO
105					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
106	52	8	3.72E-14	0.86244	HACTK9-R00-LFO	1E-13	LAK9BRC-R00-LFO	LAK9BRC-R00-LFO
107					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
108	51	8	3.72E-14	0.86806	HACTK9-R00-LFO	1E-13	LAK1B8A-R00-LFO	LAK9BRC-R00-LFO
109					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
110	50	9	3.72E-14	0.87368	FLOW-RHR-B3	HACTK3-R00-LFO	1E-13	LAKTORCA-R00-LFO
111					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
112					TDRFP-T-DE-27H			
113	55	8	3.72E-14	0.87930	HACTK9-R00-LFO	1E-13	LAK1B8B-R00-LFO	LAK9BRC-R00-LFO
114					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
115	49	9	3.72E-14	0.88492	FLOW-RHR-B3	HACTK3-R00-LFO	1E-13	LAK1B8A-R00-LFO
116					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
117					TDRFP-T-DE-27H			
118	48	9	3.72E-14	0.89054	FLOW-RHR-A3	HACTK3-R00-LFO	1E-13	LAK1B8B-R00-LFO
119					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
120					TDRFP-T-DE-27H			
121	47	9	3.72E-14	0.89616	FLOW-RHR-B3	HACTK9-R00-LFO	1E-13	LAKTORCA-R00-LFO
122					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
123					TDRFP-T-DE-27H			
124	59	8	3.72E-14	0.90178	HACTK3-R00-LFO	1E-13	LAK9BRC-R00-LFO	LAK9BRC-R00-LFO
125					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
126	46	9	3.72E-14	0.90740	FLOW-RHR-B3	HACTK9-R00-LFO	1E-13	LAK9BRC-R00-LFO
127					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
128					TDRFP-T-DE-27H			
129	45	9	3.72E-14	0.91302	FLOW-RHR-B3	HACTK9-R00-LFO	1E-13	LAK1B8A-R00-LFO
130					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
131					TDRFP-T-DE-27H			
132	66	9	3.72E-14	0.91864	FLOW-RHR-A3	HACTK9-R00-LFO	1E-13	LAK9BRC-R00-LFO
133					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
134					TDRFP-T-DE-27H			
135	63	8	3.72E-14	0.92426	HACTK3-R00-LFO	1E-13	LAK1B8B-R00-LFO	LAK9BRC-R00-LFO
136					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
137	65	9	3.72E-14	0.92988	FLOW-RHR-B3	HACTK3-R00-LFO	1E-13	LAK9BRC-R00-LFO
138					LAK9BRC-R00-LFO	/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V
139					TDRFP-T-DE-27H			
140	64	8	3.72E-14	0.93550	HACTK3-R00-LFO	1E-13	LAKTORCA-R00-LFO	LAK1B8B-R00-LFO
141					/OPFAIL-VENT-6H	RA-1-1-27H	SUR-004-V	TDRFP-T-DE-27H
142	72	7	3.46E-14	0.94073	1EB36YB-BCO-LF	HACTK3-R00-LFO	1E-14	LAK1B8A-R00-LFO
143					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	LAK1B8A-R00-LFO
144	71	7	3.46E-14	0.94596	1EB36YB-BCO-LF	HACTK9-R00-LFO	1E-14	LAK1B8A-R00-LFO
145					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	LAK1B8A-R00-LFO
146	70	7	3.46E-14	0.95119	1EB36YB-BCO-LF	HACTK9-R00-LFO	1E-14	LAK1B8A-R00-LFO
147					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	LAK1B8A-R00-LFO
148	69	7	3.46E-14	0.95642	1EB36YB-BCO-LF	HACTK3-R00-LFO	1E-14	LAK1B8A-R00-LFO
149					RA-1-1-27H	/RA-5V-1-6H	SUR-004-V	LAK1B8A-R00-LFO

150	68	7	3.46E-14	0.96165	1E83678-BCD-LF	* HACTK9-R00-LFO	* IE-T4	* LAKARCA-R00-LFO *
151					RA-1-1-27H	*/RA-5V-1-6H	* SUR-004-V	*
152	67	7	3.46E-14	0.96688	1E83678-BCD-LF	* HACTK3-R- /-LFO	* IE-T4	* LAKARCA-R00-LFO *
153					RA-1-1-27H	*/RA-5V-1-6H	* SUR-004-V	*
154	75	8	3.17E-14	0.97167	HACTK3-KO-LFO	* IE-T3	* LPCI-BETA	* LPCI-PMS-DM
155					/OFFAIL-VENT-6H	* RA-1-3-27H	* SUR-003-V	* TORFP-1-0E-27H *
156	74	8	3.17E-14	0.97645	HACTK9-R00-LFO	* IE-T3	* LPCI-BETA	* LPCI-SMS-DM
157					/OFFAIL-VENT-6H	* RA-1-3-27H	* SUR-003-V	* TORFP-1-0E-27H *
158	73	8	3.17E-14	0.98123	HACTK9-R00-LFO	* IE-T3	* LPCI-BETA	* LPCI-MOV-DM2
159					/OFFAIL-VENT-6H	* RA-1-3-27H	* SUR-003-V	* TORFP-1-0E-27H *
160	77	7	2.82E-14	0.98550	1E83678-BCD-LF	* CSCD300A-PLG-LF	* HACTK3-R00-LFO	* IE-T1
161					RA-1-3-27H	*/RA-5V-1-6H	* SUR-004-V	*
162	76	7	2.82E-14	0.98976	1E83678-BCD-LF	* CSCD300A-PLG-LF	* HACTK9-R00-LFO	* IE-T1
163					RA-1-3-27H	*/RA-5V-1-6H	* SUR-004-V	*
164	78	7	2.59E-14	0.99367	1E83678-BCD-LF	* HACTK9-R00-LFO	* IE-T1	* RA-1-3-27H *
165					RA-5V-1-6H	* RHRC02AA-PRS-LF	* SUR-003-V	*
166	44	5	2.10E-14	0.99684	IE-T15A	* LPCI-MOV-BETA	* LPCI-MOV-DM2	* /OFFAIL-VENT-6H *
167					SUR-003-V	*	*	*
163	43	5	2.10E-14	1.00000	IE-T15A	* LPCI-MOV-BETA	* LPCI-MOV-CM1	* /OFFAIL-VENT-6H *
169					SUR-003-V	*	*	*

TEMAC RUN TIME IN CPU SECONDS 51.23



SEQUENCE 132

TOP EVENT CP0581-1-SEQ3AB CONTAINS 41 EVENTS IN 159 CUT SETS

THE FREQUENCY OF TOP EVENT CP0581-1-SEQ3AB IS 8.55E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CP0581-1-SEQ3AB

N	300
MEAN	1.04E-09
STD DEV	6.10E-09
LOWER 5%	0.00E+00
LOWER 25%	3.00E-00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	2.62E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK NOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE T32  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
CONT-LEAK	159	7.50E-01 ( 4.0)	8.55E-10 ( 1.5)	0.00E+00	2.62E-09
SUR-001-L	159	1.90E-01 ( 5.0)	8.55E-10 ( 1.5)	0.00E+00	2.62E-09
RA-1-1-27H	103	2.10E-03 ( 23.0)	5.75E-10 ( 3.0)	0.00E+00	1.83E-09
1EB236B-BCO-LF	46	7.20E-05 ( 34.0)	4.83E-10 ( 4.0)	0.00E+00	1.52E-09
HACTK3-ROG-LFO	77	2.00E-02 ( 12.0)	4.47E-10 ( 5.0)	0.00E+00	1.29E-09
HACTK9-POO-LFO	78	2.00E-02 ( 12.0)	4.05E-10 ( 6.0)	0.00E+00	1.33E-09
1EB235A-BCO-LF	37	7.20E-05 ( 34.0)	3.68E-10 ( 7.0)	0.00E+00	1.10E-09
RA-1-3-27H	48	2.60E-03 ( 17.5)	2.16E-10 ( 8.0)	0.00E+00	3.39E-10
FLOW-RHR-A3	26	1.00E+00 ( 2.0)	1.24E-10 ( 9.5)	0.00E+00	1.40E-10
LAK2SARC-ROO-LFO	26	2.00E-02 ( 12.0)	1.24E-10 ( 9.5)	0.00E+00	1.40E-10
FLOW-RHR-B3	18	1.00E+00 ( 2.0)	1.21E-10 ( 11.5)	0.00E+00	1.48E-10
LAK2SARC-ROO-LFO	18	2.00E-02 ( 12.0)	1.21E-10 ( 11.5)	0.00E+00	1.48E-10
LAK2BRCC-ROO-LFO	19	2.00E-02 ( 12.0)	1.17E-10 ( 13.0)	0.00E+00	4.10E-10
LAK10RCA-ROO-LFO	26	2.00E-02 ( 12.0)	1.15E-10 ( 15.0)	0.00E+00	3.55E-10
LAK2ARCA-ROO-LFO	26	2.00E-02 ( 12.0)	1.15E-10 ( 15.0)	0.00E+00	3.55E-10
LAK18ARA-ROO-LFO	26	2.00E-02 ( 12.0)	1.15E-10 ( 15.0)	0.00E+00	3.55E-10
LAK18BIB-ROO-LFO	18	2.00E-02 ( 12.0)	1.15E-10 ( 17.0)	0.00E+00	3.55E-10
RA-2-11-27H	5	1.60E-03 ( 25.0)	6.32E-11 ( 18.0)	0.00E+00	9.46E-11
RHRC02AA-PMS-LF	4	1.10E-03 ( 30.0)	7.93E-12 ( 19.0)	0.00E+00	6.82E-12
CSCD300A-PLG-LF	4	1.20E-03 ( 26.5)	5.77E-12 ( 20.0)	0.00E+00	5.29E-12
CSCD300B-PLG-LF	2	1.20E-03 ( 26.5)	5.76E-12 ( 21.0)	0.00E+00	5.29E-12
CDD001P-PMS-LF	4	1.10E-03 ( 30.0)	5.29E-12 ( 22.0)	0.00E+00	4.55E-12
C2D001P-PMS-LF	2	1.10E-03 ( 30.0)	5.28E-12 ( 23.5)	0.00E+00	4.54E-12
RHRC02BB-PMS-LF	2	1.10E-03 ( 30.0)	5.28E-12 ( 23.5)	0.00E+00	4.54E-12
1EB36YB-BCO-LF	46	7.20E-05 ( 34.0)	3.61E-12 ( 25.0)	0.00E+00	6.04E-12
HCSC001C-PMS-LF	1	1.10E-03 ( 30.0)	2.13E-12 ( 26.0)	0.00E+00	5.77E-12
RA-5V-1-6H	45	2.10E-03 ( 23.0)	9.70E-13 ( 27.0)	0.00E+00	3.56E-12
OPFAIL-VENT-6H	30	2.10E-03 ( 23.0)	2.41E-13 ( 28.0)	0.00E+00	4.56E-13
TDRF--1-0E-27H	27	2.60E-03 ( 17.5)	2.16E-13 ( 29.0)	0.00E+00	3.72E-13
LPCI-BETA	4	1.10E-01 ( 6.0)	3.68E-14 ( 30.0)	0.00E+00	2.69E-14
LPCI-PMS-OM	3	2.50E-03 ( 20.0)	3.00E-14 ( 31.0)	0.00E+00	2.53E-14
RA-NONE	3	1.00E+00 ( 2.0)	2.54E-14 ( 32.0)	0.00E+00	7.13E-15
LPCI-MOV-DM2	2	2.50E-03 ( 20.0)	1.13E-14 ( 33.0)	0.00E+00	6.04E-15
LPCI-MOV-BETA	2	3.00E-02 ( 7.0)	8.98E-15 ( 34.0)	0.00E+00	6.04E-15
LPCI-MOV-DM1	1	2.50E-03 ( 20.0)	4.49E-15 ( 35.0)	0.00E+00	3.02E-15

SEQUENCE T32  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
1EB236B-BCO-LF	46	7.20E-05 ( 34.0)	6.71E-06 ( 1.0)	0.00E+00	3.22E-05
1EB235A-BCO-LF	37	7.20E-05 ( 34.0)	5.11E-06 ( 2.0)	0.00E+00	2.30E-05
RA-1-1-27H	103	2.10E-03 ( 23.0)	2.73E-07 ( 3.0)	0.00E+00	1.05E-06
RA-1-3-27H	48	2.60E-03 ( 17.5)	8.30E-08 ( 4.0)	0.00E+00	3.64E-07
TER36YB-BCO-LF	46	7.20E-05 ( 34.0)	5.01E-08 ( 5.0)	0.00E+00	1.83E-07
RA-2-11-27H	5	1.60E-03 ( 25.0)	3.95E-08 ( 6.0)	0.00E+00	1.44E-07
HACTK3-ROO-LFO	77	2.00E-02 ( 12.0)	2.19E-08 ( 7.0)	0.00E+00	7.49E-08
HACTK9-ROO-LFO	78	2.00E-02 ( 12.0)	1.99E-08 ( 8.0)	0.00E+00	7.55E-08
RHRC02AA-PMS-LF	4	1.10E-03 ( 30.0)	7.20E-09 ( 9.0)	0.00E+00	9.89E-09
LAK93ARC-ROO-LFO	26	2.00E-02 ( 12.0)	6.05E-09 ( 10.0)	0.00E+00	1.08E-08
LAK93BRC-ROO-LFO	18	2.00E-02 ( 12.0)	5.92E-09 ( 11.0)	0.00E+00	1.04E-08
LAK93BRCB-ROO-LFO	19	2.00E-02 ( 12.0)	5.72E-09 ( 12.0)	0.00E+00	2.39E-08
LAK10RCA-ROO-LFO	26	2.00E-02 ( 12.0)	5.62E-09 ( 14.0)	0.00E+00	2.38E-08
LAK9ARCA-ROO-LFO	26	2.00E-02 ( 12.0)	5.62E-09 ( 14.0)	0.00E+00	2.38E-08
LAK18ARA-ROO-LFO	26	2.00E-02 ( 12.0)	5.62E-09 ( 14.0)	0.00E+00	2.38E-08
LAK18BRB-ROO-LFO	18	2.00E-02 ( 12.0)	5.61E-09 ( 16.0)	0.00E+00	2.37E-08
CO0601P-PMS-LF	4	1.10E-03 ( 30.0)	4.81E-09 ( 17.0)	0.00E+00	6.60E-09
CS00300A-PL0-LF	4	1.20E-03 ( 26.5)	4.81E-09 ( 18.0)	0.00E+00	6.60E-09
C20601P-PMS-LF	2	1.10E-03 ( 30.0)	4.80E-09 ( 19.5)	0.00E+00	6.59E-09
RHRC02BB-PMS-LF	2	1.10E-03 ( 30.0)	4.80E-09 ( 19.5)	0.00E+00	6.59E-09
LS00300B-PL0-LF	2	1.20E-03 ( 26.5)	4.80E-09 ( 21.0)	0.00E+00	6.59E-09
SUR-001-L	159	1.90E-01 ( 5.0)	3.64E-09 ( 22.0)	0.00E+00	9.78E-09
WCSC001C-PMS-LF	1	1.10E-03 ( 30.0)	1.94E-09 ( 23.0)	0.00E+00	7.47E-09
RA-5V-1-6H	40	2.10E-03 ( 23.0)	4.61E-10 ( 24.0)	0.00E+00	1.53E-09
CONT-LEAK	159	7.50E-01 ( 4.0)	2.85E-10 ( 25.0)	0.00E+00	0.00E+00
OPFAIL-VENT-6H	30	2.10E-03 ( 23.0)	1.15E-10 ( 26.0)	0.00E+00	2.86E-10
TDRFP-1-OE-27H	27	2.60E-03 ( 17.5)	8.27E-11 ( 27.0)	0.00E+00	2.66E-10
LPCI-PMS-OM	3	2.50E-03 ( 20.0)	1.20E-11 ( 28.0)	0.00E+00	2.20E-11
LPCI-MOV-OM2	2	2.50E-03 ( 20.0)	4.50E-12 ( 29.0)	0.00E+00	6.50E-12
LPCI-MOV-OM1	1	2.50E-03 ( 20.0)	1.79E-12 ( 30.0)	0.00E+00	1.58E-12
LPCI-BETA	4	1.10E-01 ( 6.0)	2.98E-13 ( 31.0)	0.00E+00	2.33E-13
LPCI-MOV-BETA	2	3.00E-02 ( 7.0)	2.90E-13 ( 32.0)	0.00E+00	3.05E-13
RA-NONE	3	1.00E+00 ( 2.0)	0.00E+00 ( 34.0)		
FLOW-CHR-B3	18	1.00E+00 ( 2.0)	0.00E+00 ( 34.0)		
FLOW-RHR-A3	26	1.00E+00 ( 2.0)	0.00E+00 ( 34.0)		

SEQUENCE 132  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UPPERTAINTY OF LOG RISK	(RANK)	Y.05/TE.05*	Y.95/TE.95*
LAK10RCA-ROO-LFO	26	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
LAK18ARA-ROO-LFO	26	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
LAKY3ARC-ROO-LFO	26	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
HACTK3-ROO-LFO	77	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
LAK9AKCA-ROO-LFO	26	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
HACTK9-ROO-LFO	78	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
LAK939RC-ROO-LFO	18	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
LAK1888B-ROO-LFO	18	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
LAK988CB-ROO-LFO	19	2.00E-02	( 12.0)	18.3	( 5.0)	NA	1.75
1EB36YB-BCO-LF	46	7.20E-05	( 34.0)	5.4	( 11.0)	NA	1.52
1EB235A-BCO-LF	37	7.20E-05	( 34.0)	5.4	( 11.0)	NA	1.52
1EB234B-BCO-LF	46	7.20E-05	( 34.0)	5.4	( 11.0)	NA	1.52
SUR-001-L	159	1.90E-01	( 5.0)	3.0	( 13.0)	NA	1.45
RA-5V-1-6H	45	2.10E-03	( 23.0)	2.3	( 15.0)	NA	1.47
OPFA1L-VENT-6H	30	4.10E-03	( 23.0)	2.3	( 15.0)	NA	1.47
RA-1-1-27H	103	2.10E-03	( 23.0)	2.3	( 15.0)	NA	1.47
RA-2-11-27H	5	1.60E-03	( 25.0)	1.0	( 17.0)	NA	1.08
LPCI-MOV-DM2	2	2.50E-03	( 20.0)	1.0	( 19.0)	NA	1.00
LPCI-PMS-DM	3	2.50E-03	( 20.0)	1.0	( 19.0)	NA	1.00
LPCI-MOV-DM1	1	2.50E-03	( 20.0)	1.0	( 19.0)	NA	1.00
RA-1-3-27H	48	2.60E-03	( 17.5)	0.4	( 21.5)	NA	1.13
TDRFP-1-DE-27H	27	2.60E-03	( 17.5)	0.4	( 21.5)	NA	1.13
CONT-LEAK	159	7.50E-01	( 4.0)	0.2	( 23.0)	NA	0.75
CSC0300A-PLG-LF	4	1.20E-03	( 26.5)	0.0	( 28.0)	NA	
HCSC001C-PMS-LF	1	1.10E-03	( 33.0)	0.0	( 28.0)	NA	
LPCI-MOV-BETA	2	3.00E-02	( 7.0)	0.0	( 28.0)	NA	
LPCI-BETA	4	1.10E-01	( 6.0)	0.0	( 28.0)	NA	
C20G01P-PMS-LF	2	1.10E-03	( 30.0)	0.0	( 28.0)	NA	
C00G01P-PMS-LF	4	1.10E-03	( 30.0)	0.0	( 28.0)	NA	
PHRC02BB-PMS-LF	2	1.10E-03	( 30.0)	0.0	( 28.0)	NA	
PHRC02AA-PMS-LF	4	1.10E-03	( 30.0)	0.0	( 28.0)	NA	
_SCD300B-PLG-LF	2	1.20E-03	( 26.5)	0.0	( 28.0)	NA	
RA-NONE	3	1.00E+00	( 2.0)	0.0	( 28.0)	NA	
FLOW-PHR-B3	18	1.00E+00	( 2.0)	0.0	( 28.0)	NA	
FLOW-PHR-A3	26	1.60E+00	( 2.0)	0.0	( 28.0)	NA	

SEQUENCE 132

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPO581-1-3-603AB WITH TOP EVENT FREQUENCY 8.55E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	8	4.80E-11	5.05617	1E2368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO
3	1	8	4.80E-11	5.05617	1E-11	LAK93ARC-ROO-LFO	RA-1-3-27H	SUR-001-L
4	2	8	4.80E-11	0.11234	1E235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK3-ROO-LFO
5	2	8	4.80E-11	0.11234	1E-11	LAK938RC-ROO-LFO	RA-1-3-27H	SUR-001-L
6	7	7	3.88E-11	0.15770	1E2368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-11
7	7	7	3.88E-11	0.15770	LAK18ARA-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-11
8	9	7	3.88E-11	0.26307	1E235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-11
9	9	7	3.88E-11	0.26307	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-11
10	3	7	3.88E-11	0.24844	1E2368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-11
11	3	7	3.88E-11	0.24844	LAK9ARCA-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-11
12	11	7	3.88E-11	0.24581	1E2368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-11
13	11	7	3.88E-11	0.24581	LAK10RCA-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-11
14	8	7	3.88E-11	0.33917	1E2368-BCO-LF	CONT-LEAK	HACTK9-ROO-LFO	1E-11
15	8	7	3.88E-11	0.33917	LAK9ARCA-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-11
16	4	7	3.88E-11	0.38654	1E2368-BCO-LF	CONT-LEAK	HACTK9-ROO-LFO	1E-11
17	4	7	3.88E-11	0.38654	LAK18ARA-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-11
18	12	7	3.88E-11	0.42991	1E235A-BCO-LF	CONT-LEAK	HACTK9-ROO-LFO	1E-11
19	12	7	3.88E-11	0.42991	LAK188RB-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-11
20	6	7	3.88E-11	0.47527	1E235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-11
21	6	7	3.88E-11	0.47527	LAK188RB-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-11
22	5	7	3.88E-11	0.52064	1E2368-BCO-LF	CONT-LEAK	HACTK9-ROO-LFO	1E-11
23	5	7	3.88E-11	0.52064	LAK10RCA-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-11
24	10	7	3.88E-11	0.56601	1E235A-BCO-LF	CONT-LEAK	HACTK9-ROO-LFO	1E-11
25	10	7	3.88E-11	0.56601	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-11
26	14	3	1.75E-11	0.60057	1E2368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK9-ROO-LFO
27	14	3	1.75E-11	0.60057	1E-11	LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-001-L
28	13	8	6.51E-12	0.63514	1E235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO
29	13	8	6.51E-12	0.63514	1E-11	LAK938RC-ROO-LFO	RA-2-11-27H	SUR-001-L
30	16	8	6.51E-12	0.64275	1E2368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK9-ROO-LFO
31	16	8	6.51E-12	0.64275	1E-11	LAK93ARC-ROO-LFO	RA-1-3-27H	SUR-001-L
32	15	8	6.51E-12	0.65037	1E235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK3-ROO-LFO
33	15	8	6.51E-12	0.65037	1E-11	LAK938RC-ROO-LFO	RA-1-3-27H	SUR-001-L
34	17	8	6.51E-12	0.65798	1E2368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO
35	17	8	6.51E-12	0.65798	1E-11	LAK93ARC-ROO-LFO	RA-1-3-27H	SUR-001-L
36	19	8	6.40E-12	0.66547	1E2368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK9-ROO-LFO
37	19	8	6.40E-12	0.66547	1E-11	LAK938RC-ROO-LFO	RA-1-3-27H	SUR-001-L
38	21	8	6.40E-12	0.67296	1E235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK3-ROO-LFO
39	21	8	6.40E-12	0.67296	1E-11	LAK938RC-ROO-LFO	RA-1-3-27H	SUR-001-L
40	20	8	6.40E-12	0.68045	1E2368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO
41	20	8	6.40E-12	0.68045	1E-11	LAK938RC-ROO-LFO	RA-1-3-27H	SUR-001-L
42	18	8	6.40E-12	0.68794	1E235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO
43	18	8	6.40E-12	0.68794	1E-11	LAK938RC-ROO-LFO	RA-1-3-27H	SUR-001-L
44	25	8	5.55E-12	0.69443	1E2368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK9-ROO-LFO
45	25	8	5.55E-12	0.69443	1E-11	LAK938RC-ROO-LFO	RA-1-3-27H	SUR-001-L

46	24	8	5.55E-12	0.70092	1EB235A-8CO-LF	CONT-LEAK	FLOW-RWR-B3	HACTK9-R00-LFO	*
47					1E-12	LAK9BRC-R00-LFO	RA-1-3-27H	SUR-001-L	*
48	23	8	5.55E-12	0.70741	1EB236B-8CO-LF	CONT-LEAK	FLOW-RWR-A3	HACTK3-R00-LFO	*
49					1E-12	LAK9ARC-R00-LFO	RA-1-3-27H	SUR-001-L	*
50	22	8	5.55E-12	0.71300	1EB235A-8CO-LF	CONT-LEAK	FLOW-RWR-B3	HACTK3-R00-LFO	*
51					1E-12	LAK9BRC-R00-LFO	RA-1-3-27H	SUR-001-L	*
52	31	7	5.26E-12	0.74005	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-13	*
53					LAK10RCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
54	29	7	5.26E-12	0.72620	1EB235A-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-13	*
55					LAK9RCB-R00-LFO	RA-1-1-27H	SUR-001-L		*
56	28	7	5.26E-12	0.73235	1EB235A-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-13	*
57					LAK188RB-R00-LFO	RA-1-1-27H	SUR-001-L		*
58	30	7	5.01E-12	0.73050	1EB235A-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-13	*
59					LAK9RCB-R00-LFO	RA-1-1-27H	SUR-001-L		*
60	26	7	5.26E-12	0.74445	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-13	*
61					LAK9ARCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
62	27	7	5.26E-12	0.75080	1EB236B-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-13	*
63					LAK18ARA-R00-LFO	RA-1-1-27H	SUR-001-L		*
64	34	7	5.26E-12	0.75695	1EB236B-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-13	*
65					LAK10RCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
66	33	7	5.26E-12	0.76310	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-13	*
67					LAK9ARCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
68	32	7	5.26E-12	0.76925	1EB236B-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-13	*
69					LAK18ARA-R00-LFO	RA-1-1-27H	SUR-001-L		*
70	35	7	5.26E-12	0.77540	1EB235A-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-13	*
71					LAK188RB-R00-LFO	RA-1-1-27H	SUR-001-L		*
72	39	7	5.17E-12	0.78145	1EB236B-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-15	*
73					LAK10RCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
74	44	7	5.17E-12	0.78750	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-15	*
75					LAK9ARCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
76	42	7	5.17E-12	0.79354	1EB235A-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-15	*
77					LAK188RB-R00-LFO	RA-1-1-27H	SUR-001-L		*
78	45	7	5.17E-12	0.79959	1EB235A-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-15	*
79					LAK9RCB-R00-LFO	RA-1-1-27H	SUR-001-L		*
80	41	7	5.17E-12	0.80564	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-15	*
81					LAK188RB-R00-LFO	RA-1-1-27H	SUR-001-L		*
82	40	7	5.17E-12	0.81169	1EB236B-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-15	*
83					LAK18ARA-R00-LFO	RA-1-1-27H	SUR-001-L		*
84	43	7	5.17E-12	0.81774	1EB236B-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-15	*
85					LAK9ARCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
86	38	7	5.17E-12	0.82379	1EB236B-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-15	*
87					LAK18ARA-R00-LFO	RA-1-1-27H	SUR-001-L		*
88	37	7	5.17E-12	0.82984	1EB235A-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-15	*
89					LAK9RCB-R00-LFO	RA-1-1-27H	SUR-001-L		*
90	36	7	5.17E-12	0.83589	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-15	*
91					LAK10RCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
92	54	7	4.48E-12	0.84113	1EB235A-8CO-LF	CONT-LEAK	HACTK9-R00-LFO	1E-12	*
93					LAK188RB-R00-LFO	RA-1-1-27H	SUR-001-L		*
94	53	7	4.48E-12	0.84637	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-12	*
95					LAK10RCA-R00-LFO	RA-1-1-27H	SUR-001-L		*
96	52	7	4.48E-12	0.85161	1EB236B-8CO-LF	CONT-LEAK	HACTK3-R00-LFO	1E-12	*
97					LAK9ARCA-R00-LFO	RA-1-1-27H	SUR-001-L		*

98	51	7	4.48E-12	0.85686	1E82368-BCO-LF	CONT-LEAK	HACTK9-ROO-LFO	1E-12	*	
99	50	7	4.48E-12	0.86210	LAK10RCA-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
100	49	7	4.48E-12	0.86734	1E8235A-BCO-LF	CONT-LEAK	SUR-001-L	1E-12	*	
101	48	7	4.48E-12	0.87258	LAK188RB-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
102	47	7	4.48E-12	0.87783	1E8235A-BCO-LF	CONT-LEAK	SUR-001-L	1E-12	*	
103	46	7	4.48E-12	0.88311	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-12	*	
104	45	7	4.48E-12	0.88831	1E82368-BCO-LF	CONT-LEAK	SUR-001-L	1E-12	*	
105	44	7	4.48E-12	0.89343	LAK18ARA-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-12	*	
106	43	7	4.48E-12	0.89855	1E8235A-BCO-LF	CONT-LEAK	SUR-001-L	1E-12	*	
107	42	7	4.48E-12	0.90366	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-12	*	
108	41	7	4.48E-12	0.90878	1E82368-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO	1E-12	*
109	40	7	4.48E-12	0.91347	1E8235A-BCO-LF	CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO	1E-12	*
110	39	7	4.48E-12	0.91760	1E82368-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
111	38	7	4.48E-12	0.92173	1E8235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
112	37	7	4.48E-12	0.92585	1E82368-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
113	36	7	4.48E-12	0.93000	1E8235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
114	35	7	4.48E-12	0.93413	1E82368-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
115	34	7	4.48E-12	0.93827	1E8235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
116	33	7	4.48E-12	0.94240	1E82368-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
117	32	7	4.48E-12	0.94653	1E8235A-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
118	31	7	4.48E-12	0.95067	1E82368-BCO-LF	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	1E-12	*
119	30	7	4.48E-12	0.95480	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK9-ROO-LFO	1E-12	*	
120	29	7	4.48E-12	0.95893	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
121	28	7	4.48E-12	0.96306	1E82368-BCO-LF	CONT-LEAK	SUR-001-L	HACTK3-ROO-LFO	1E-12	*
122	27	7	4.48E-12	0.96719	1E8235A-BCO-LF	CONT-LEAK	SUR-001-L	HACTK3-ROO-LFO	1E-12	*
123	26	7	4.48E-12	0.97132	LAK18ARA-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
124	25	7	4.48E-12	0.97545	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
125	24	7	4.48E-12	0.97958	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
126	23	7	4.48E-12	0.98371	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
127	22	7	4.48E-12	0.98784	LAK10RCA-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
128	21	7	4.48E-12	0.99197	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
129	20	7	4.48E-12	0.99610	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
130	19	7	4.48E-12	1.00023	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
131	18	7	4.48E-12	1.00436	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
132	17	7	4.48E-12	1.00849	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
133	16	7	4.48E-12	1.01262	LAK188RB-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
134	15	7	4.48E-12	1.01675	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
135	14	7	4.48E-12	1.02088	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
136	13	7	4.48E-12	1.02501	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
137	12	7	4.48E-12	1.02914	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
138	11	7	4.48E-12	1.03327	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
139	10	7	4.48E-12	1.03740	LAK10RCA-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
140	9	7	4.48E-12	1.04153	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
141	8	7	4.48E-12	1.04566	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
142	7	7	4.48E-12	1.04979	LAK98RCB-ROO-LFO	RA-1-1-27H	HACTK3-ROO-LFO	1E-12	*	
143	6	7	4.48E-12	1.05392	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
144	5	7	4.48E-12	1.05805	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
145	4	7	4.48E-12	1.06218	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
146	3	7	4.48E-12	1.06631	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
147	2	7	4.48E-12	1.07044	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
148	1	7	4.48E-12	1.07457	1E82368-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	
149	0	7	4.48E-12	1.07870	1E8235A-BCO-LF	CONT-LEAK	HACTK3-ROO-LFO	1E-12	*	

150	79	7	2.64E-12	0.97137	1E836YB-BCD-LF	* CUMT-LEAK	* HACTK3-ROO-LFO	* 1E-T1
151					RA-1-3-27H	* RHRC02AA-PMS-LF	* SUR-001-L	* 1E-T1
152	78	7	2.64E-12	0.77446	1E8236S-BCD-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T1
153					RA-1-3-27H	* RHRC02AA-PMS-LF	* SUR-001-L	* 1E-T1
154	77	7	2.64E-12	0.97755	1E8235A-BCD-LF	* CONT-LF-AK	* HACTK3-ROO-LFO	* 1E-T1
155					RA-1-3-27H	* RHRC028B-PMS-LF	* SUR-001-L	* 1E-T1
156	76	7	2.64E-12	0.98064	1E8235A-BCD-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T1
157					RA-1-3-27H	* RHRC028B-PMS-LF	* SUR-001-L	* 1E-T1
158	75	7	2.64E-12	0.93373	1E8236B-BCD-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T1
159					RA-1-3-27H	* RHRC02AA-PMS-LF	* SUR-001-L	* HACTK9-ROO-LFO
160	83	7	2.64E-12	0.98682	1E8236B-BCD-LF	* C00G01P-PMS-LF	* CONT-LEAK	* HACTK3-ROO-LFO
161					1E-T1	* RA-1-3-27H	* SUR-001-L	* HACTK3-ROO-LFO
162	82	7	2.64E-12	0.98991	1E8236B-BCD-LF	* C00G01P-PMS-LF	* CONT-LEAK	* HACTK3-ROO-LFO
163					1E-T1	* RA-1-3-27H	* SUR-001-L	* HACTK3-ROO-LFO
164	81	7	2.64E-12	0.99300	1E8235A-BCD-LF	* C20G01P-PMS-LF	* CONT-LEAK	* HACTK3-ROO-LFO
165					1E-T1	* RA-1-3-27H	* SUR-001-L	* HACTK9-ROO-LFO
166	80	7	2.64E-12	0.99609	1E8235A-BCD-LF	* C20G01P-PMS-LF	* CONT-LEAK	* HACTK9-ROO-LFO
167					1E-T1	* RA-1-3-27H	* SUR-001-L	* 1E-T1
168	84	7	2.13E-12	0.99858	1E8235A-BCD-LF	* CONT-LEAK	* HSC001C-PMS-LF	* 1E-T1
169					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* SUR-01-L	* 1E-T1
170	90	8	8.14E-14	0.99868	1E836YB-BCD-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* SUR-001-L
171					LAK10ARA-ROO-LFO	* RA-1-1-27H	* PA-5V-1-6H	* 1E-T1
172	89	8	8.14E-14	0.99877	1E836YB-BCD-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* SUR-001-L
173					LAK9ARCA-ROO-LFO	* RA-1-1-27H	* RA-5V-1-6H	* 1E-T1
174	88	8	8.14E-14	0.99887	1E836YB-BCD-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* SUR-001-L
175					LAK10ARA-ROO-LFO	* RA-1-1-27H	* RA-5V-1-6H	* 1E-T1
176	87	8	8.14E-14	0.99896	1E836YB-BCD-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* SUR-001-L
177					LAK9ARCA-ROO-LFO	* RA-1-1-27H	* RA-5V-1-6H	* SUR-001-L
178	86	8	8.14E-14	0.99906	1E836YB-BCD-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* SUR-001-L
179					LAK10RCA-ROO-LFO	* RA-1-1-27H	* RA-5V-1-6H	* SUR-001-L
180	85	8	8.14E-14	0.99915	1E836YB-BCD-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* SUR-001-L
181					LAK10RCA-ROO-LFO	* RA-1-1-27H	* RA-5V-1-6H	* HACTK9-ROO-LFO
182	92	9	6.21E-14	0.99923	1E836YB-BCD-LF	* CONT-LEAK	* FLOW-RHR-A3	* RA-5V-1-6H
183					1E-T1	* LAK93ARC-ROO-LFO	* RA-2-11-27H	* RA-5V-1-6H
184					SUR-001-L	* CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO
185	91	9	6.21E-14	0.99930	1E836YB-BCD-LF	* LAK93ARC-ROO-LFO	* RA-2-11-27H	* RA-5V-1-6H
186					1E-T1	* 1E-T1TSA	* LPCI-BETA	* LPCI-PMS-OM
187					SUR-001-L	* RA-NONE	* SUR-001-L	* HACTK3-ROO-LFO
188	93	7	1.65E-14	0.99932	OP-FAIL-VENT-6H	* CONT-LEAK	* FLOW-RHR-A3	* RA-5V-1-6H
189					1E836YB-BCD-LF	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* RA-5V-1-6H
190	95	9	1.37E-14	0.99933	1E-T3	* CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO
191					SUR-001-L	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* RA-5V-1-6H
192	94	9	1.37E-14	0.99935	1E836YB-BCD-LF	* CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO
193					1E-T3	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* RA-5V-1-6H
194					SUR-001-L	* CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO
195	97	9	1.34E-14	0.99936	1E836YB-BCD-LF	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* HACTK9-ROO-LFO
196					1E-T5	* SUR-001-L	* RA-1-3-27H	* RA-5V-1-6H
197					SUR-001-L	* CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO
198						* LAK93ARC-ROO-LFO	* RA-1-3-27H	* RA-5V-1-6H



SEQUENCE T34

TOP EVENT CP05B2-T-SEQ3AB CONTAINS 47 EVENTS IN 159 CUT SETS

THE FREQUENCY OF TOP EVENT CP05B2-T-SEQ3AB IS 1.28E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CP05B2-T-SEQ3AB

N	300
MEAN	6.77E-10
STD DEV	1.01E-08
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.82E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKET DENOTES INTF. RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND W DENOTES M.D.S.)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE T34  
RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	REDUCION (RANK)	LOWER 5%	UPPER 5%
RA-1-1-27H	103	2.10E-03 ( 29.0)	8.64E-11 ( 1.0)	0.00E+00	6.78E-11
1E82368-BCO-LF	46	7.20E-05 ( 40.0)	7.26E-11 ( 2.0)	0.00E+00	9.76E-11
HACTK3-ROO-LFO	77	2.00E-02 ( 18.0)	6.77E-11 ( 3.0)	0.00E+00	9.52E-11
SUR-017-R	92	8.50E-02 ( 11.0)	6.41E-11 ( 4.0)	0.00E+00	5.37E-11
HACTK9-ROO-LFF	78	2.00E-02 ( 18.0)	6.09E-11 ( 5.0)	0.00E+00	9.72E-11
1E8235A-BCO-LI	37	7.20E-05 ( 49.0)	5.53E-11 ( 6.0)	0.00E+00	8.39E-11
SUR-015-R	29	5.50E-02 ( 11.0)	4.91E-11 ( 7.0)	0.00E+00	5.00E-11
RA-1-3-27H	48	2.60E-03 ( 23.5)	3.26E-11 ( 8.0)	0.00E+00	2.25E-11
LAK93ARC-ROO-LFO	26	2.00E-02 ( 18.0)	1.86E-11 ( 9.5)	0.00E+00	1.76E-11
FLOW-RHR-A3	26	1.00E+00 ( 2.0)	1.86E-11 ( 9.5)	0.00E+00	1.74E-11
LAK93BRC-ROO-L...	18	2.00E-02 ( 18.0)	1.82E-11 ( 11.5)	0.00E+00	1.38E-11
FLOW-RHR-83	18	1.00E+00 ( 2.0)	1.82E-11 ( 11.5)	0.00E+00	1.35E-11
LAK9BRCB-ROO-LFO	19	2.00E-02 ( 18.0)	1.75E-11 ( 13.0)	0.00E+00	1.35E-11
LAK9ARCA-ROO-LFO	26	2.00E-02 ( 18.0)	1.72E-11 ( 15.0)	0.00E+00	1.35E-11
LAK18ARA-ROO-LFO	26	2.00E-02 ( 18.0)	1.72E-11 ( 15.0)	0.00E+00	1.35E-11
LAK18RCA-ROO-LFO	26	2.00E-02 ( 18.0)	1.72E-11 ( 15.0)	0.00E+00	1.35E-11
LAK18RRB-ROO-LFO	18	2.00E-02 ( 18.0)	1.72E-11 ( 17.0)	0.00E+00	1.35E-11
RA-2-11-27H	5	1.60E-03 ( 31.0)	9.43E-12 ( 18.0)	0.00E+00	4.85E-12
SUR-018-R	16	9.20E-02 ( 7.0)	7.09E-12 ( 19.0)	0.00E+00	1.54E-11
SUR-019-R	5	9.20E-02 ( 7.0)	4.37E-12 ( 20.0)	0.00E+00	9.33E-12
SUR-016-R	6	8.60E-02 ( 9.0)	1.60E-12 ( 21.0)	0.00E+00	1.74E-12
RHR02AA-PMS-LF	10	8.50E-02 ( 11.0)	1.19E-12 ( 22.0)	0.00E+00	1.31E-12
SUR-020-R	4	1.10E-03 ( 36.0)	1.18E-12 ( 23.0)	0.00E+00	1.50E-12
CSCD300A-PLG-LF	4	2.0E-03 ( 32.5)	1.03E-12 ( 24.0)	0.00E+00	7.89E-13
CSCD300B-PLG-LF	4	2.0E-03 ( 32.5)	8.61E-13 ( 25.0)	0.00E+00	9.33E-13
COOG01P-PMS-LF	2	1.29E-03 ( 32.5)	8.59E-13 ( 26.0)	0.00E+00	9.32E-13
C20G07P-PMS-LF	4	1.10E-03 ( 36.0)	7.99E-13 ( 27.0)	0.00E+00	8.73E-13
RHR02BB-PMS-LF	2	1.10E-03 ( 36.0)	7.97E-13 ( 28.0)	0.00E+00	8.67E-13
1E836Y8-BCO-LF	46	7.20E-05 ( 40.0)	7.89E-13 ( 29.0)	0.00E+00	8.67E-13
HCS001C-PMS-LF	1	1.10E-03 ( 36.0)	5.40E-13 ( 30.0)	0.00E+00	9.53E-13
RA-5V-1-0H	45	2.10E-03 ( 29.0)	3.18E-13 ( 31.0)	0.00E+00	3.70E-13
OPFAIL-VENT-6H	30	2.10E-03 ( 29.0)	1.46E-13 ( 32.0)	0.00E+00	7.93E-14
TD8FP-1-0E-27H	27	1.1E-03 ( 23.5)	3.59E-14 ( 33.0)	0.00E+00	3.36E-14
LPCI-BETA	4	1.10E-01 ( 5.0)	3.21E-14 ( 34.0)	0.00E+00	3.60E-15
LPCI-PMS-DM	3	2.50E-03 ( 26.0)	5.49E-15 ( 35.0)	0.00E+00	6.56E-15
RA-NONE	3	1.00E+00 ( 2.0)	4.48E-15 ( 36.0)	0.00E+00	6.32E-15
LPCI-MOV-1M2	2	2.50E-03 ( 26.0)	3.79E-15 ( 37.0)	0.00E+00	1.86E-15
LPCI-MOV-BETA	2	3.00E-02 ( 13.0)	1.68E-15 ( 38.0)	0.00E+00	7.68E-16
LPCI-MOV-DM	1	2.50E-03 ( 26.0)	1.34E-15 ( 39.0)	0.00E+00	3.84E-16
CONT-LEAK	159	7.50E-01 ( 4.0)	6.69E-15 ( 40.0)	0.00E+00	0.00E+00

SEQUENCE T34  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER
1EB2368-RCD-LF	46	7.20E-05 ( 40.0)	1.01E-06 ( 1.0)	0.00E+00	3.83E-06
1EB235A-RCD-LF	37	7.20E-05 ( 40.0)	7.68E-07 ( 2.0)	0.00E+00	3.01E-06
RA-1-1-27H	103	2.10E-03 ( 29.0)	4.11E-08 ( 3.0)	0.00E+00	1.04E-07
RA-1-3-27A	48	2.60E-03 ( 23.5)	1.25E-08 ( 4.0)	0.00E+00	3.99E-08
1EB3676-RCD-LF	46	7.20E-05 ( 40.0)	7.49E-09 ( 5.0)	0.00E+00	3.52E-08
RA-2-11-27A	5	1.60E-03 ( 31.0)	5.68E-09 ( 6.0)	0.00E+00	1.17E-08
HACTK3-ROO-LFO	77	2.00E-02 ( 18.0)	3.29E-09 ( 7.0)	0.00E+00	8.75E-09
HACTK9-ROO-LFO	78	2.00E-02 ( 18.0)	2.99E-09 ( 8.0)	0.00E+00	7.82E-09
RHR02AA-PMS-LF	4	1.10E-03 ( 36.0)	1.07E-09 ( 9.0)	0.00E+00	1.45E-09
LAK93ARC-ROO-LFO	26	2.00E-02 ( 18.0)	9.10E-10 ( 10.0)	0.00E+00	1.93E-09
LAK93BRC-ROO-LFO	18	2.00E-02 ( 18.0)	8.90E-10 ( 11.0)	0.00E+00	1.92E-09
LAK98RCB-ROO-LFO	19	2.00E-02 ( 18.0)	8.59E-10 ( 12.0)	0.00E+00	1.09E-09
LAK10RCA-ROO-LFO	26	2.00E-02 ( 18.0)	8.45E-10 ( 14.0)	0.00E+00	9.90E-10
LAK9ARCA-ROO-LFO	26	2.00E-02 ( 18.0)	8.45E-10 ( 14.0)	0.00E+00	9.90E-10
LAK18ARA-ROO-LFO	26	2.00E-02 ( 18.0)	8.43E-10 ( 16.0)	0.00E+00	1.02E-09
LAK18BRB-ROO-LFO	18	2.00E-02 ( 18.0)	7.25E-10 ( 17.0)	0.00E+00	9.71E-10
COGG01P-PMS-LF	4	1.10E-03 ( 36.0)	7.24E-10 ( 18.0)	0.00E+00	9.66E-10
C2DGG01P-PMS-LF	2	1.10E-03 ( 36.0)	7.17E-10 ( 19.0)	0.00E+00	9.72E-10
CSCD300A-PLG-LF	4	1.20E-03 ( 32.5)	7.15E-10 ( 20.0)	0.00E+00	9.66E-10
RHR028B-PMS-LF	2	1.10E-03 ( 36.0)	7.15E-10 ( 21.0)	0.00E+00	9.67E-10
CSCD300B-PLG-LF	2	1.20E-03 ( 32.5)	6.90E-10 ( 22.0)	0.00E+00	6.83E-10
SUR-017-R	92	8.50E-02 ( 11.0)	5.29E-10 ( 23.0)	0.00E+00	4.65E-10
SUR-015-R	29	8.50E-02 ( 11.0)	2.89E-10 ( 24.0)	0.00E+00	3.04E-10
HCS0001C-PMS-LF	1	1.10E-03 ( 36.0)	7.00E-11 ( 25.0)	0.00E+00	8.41E-11
SUR-018-R	16	9.20E-02 ( 7.0)	6.93E-11 ( 26.0)	0.00E+00	9.34E-11
RA-5V-1-6H	45	2.10E-03 ( 29.0)	4.31E-11 ( 27.0)	0.00E+00	5.44E-11
SUR-019-R	5	9.20E-02 ( 7.0)	1.71E-11 ( 28.0)	0.00E+00	1.08E-11
OP-FALL-VENT-6H	30	2.10E-03 ( 29.0)	1.70E-11 ( 29.0)	0.00E+00	5.01E-12
TUR-014-R	6	8.60E-02 ( 9.0)	1.28E-11 ( 30.0)	0.00E+00	3.81E-12
SUR-016-R	10	8.50E-02 ( 11.0)	1.23E-11 ( 31.0)	0.00E+00	7.23E-12
TORFP-T-DE-27H	27	2.60E-03 ( 23.5)	1.02E-11 ( 32.0)	0.00E+00	4.97E-12
SUR-020-R	1	9.20E-02 ( 7.0)	1.79E-12 ( 33.0)	0.00E+00	4.75E-12
LPCI-PMS-CM	3	2.50E-03 ( 26.0)	6.71E-13 ( 34.0)	0.00E+00	1.59E-12
LPCI-MOV-CM2	2	2.50E-03 ( 26.0)	2.67E-13 ( 35.0)	0.00E+00	5.18E-13
LPCI-MOV-CM1	1	2.50E-03 ( 26.0)	4.44E-14 ( 36.0)	0.00E+00	7.59E-14
LPCI-BETA	4	1.10E-01 ( 5.0)	4.33E-14 ( 37.0)	0.00E+00	3.22E-14
LPCI-MOV-BETA	2	3.00E-02 ( 13.0)	0.00E+00 ( 39.0)		
RA-NONE	3	1.00E+00 ( 2.0)	0.00E+00 ( 39.0)		
FLOW-RHR-B3	18	1.00E+00 ( 2.0)	0.00E+00 ( 39.0)		
FLOW-RHR-A3	26	1.00E+00 ( 2.0)	0.00E+00 ( 39.0)		
CONT-LEAK	159	7.50E-01 ( 4.0)	-1.28E-10 ( 41.0)	1.82E-10	0.00E+00

SEQUENCE T34  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	6	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	7-.05/TE-.05*	7-.95/TE-.95*
CONT-LEAK	159	1.5E-01	( 4.0)	21.3	( 1.0)	NA	0.25
LAK1BARA-R00-LFO	26	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
LAK9ARCA-R00-LFC	26	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
HACTK3-R00-LFO	77	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
LAK93ARC-R00-LFO	26	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
LAK10RCA-R00-LFO	26	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
LAK93BRC-R00-LFO	18	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
HACTK9-R00-LFO	78	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
LAK98RCB-R00-LFO	19	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
LAK188RB-R00-LFO	18	2.00E-02	( 18.0)	7.2	( 6.0)	NA	6.20
LPCI-BETA	4	1.10E-01	( 5.0)	4.3	( 11.0)	NA	1.00
1EB235A-BCD-LF	37	7.20E-05	( 40.0)	3.1	( 13.0)	NA	2.73
1EB2366-BCD-LF	46	7.20E-05	( 40.0)	3.1	( 13.0)	NA	2.73
1EB365B-BCD-LF	46	7.20E-05	( 40.0)	3.1	( 13.0)	NA	2.73
RA-1-3-27H	48	2.60E-03	( 23.5)	1.4	( 15.5)	NA	1.22
JRFP-1-0E-27H	27	2.60E-03	( 23.5)	1.4	( 15.5)	NA	1.22
RA-SV-1-6H	45	2.10E-03	( 29.0)	1.4	( 18.0)	NA	1.62
KA-1-1-27H	103	2.10E-03	( 29.0)	1.4	( 18.0)	NA	1.62
OPFAL-VENT-6H	30	2.10E-03	( 29.0)	1.4	( 18.0)	NA	1.62
HCS001C-PMS-LF	1	1.10E-03	( 36.0)	1.3	( 22.0)	NA	0.99
CZD001P-PMS-LF	2	1.10E-03	( 36.0)	1.3	( 22.0)	NA	0.99
C00G01P-PMS-LF	4	1.10E-03	( 36.0)	1.3	( 22.0)	NA	0.99
RHRC028B-PMS-LF	2	1.10E-03	( 36.0)	1.3	( 22.0)	NA	0.99
RHRC02AA-PMS-LF	4	1.10E-03	( 36.0)	1.3	( 22.0)	NA	0.79
SUR-017-R	92	8.50E-02	( 11.0)	1.3	( 26.0)	NA	1.56
SUR-016-R	10	8.50E-02	( 11.0)	1.3	( 26.0)	NA	1.56
SUR-015-R	29	8.50E-02	( 11.0)	1.3	( 26.0)	NA	1.56
SUR-014-R	6	8.60E-02	( 9.0)	1.2	( 28.0)	NA	0.98
CSCD300A-PLG-LF	4	1.20E-03	( 32.5)	1.1	( 29.5)	NA	1.00
CSCD300B-PLG-LF	2	1.20E-03	( 32.5)	1.1	( 29.5)	NA	1.00
RA-2-11-27H	5	1.60E-03	( 31.0)	1.0	( 31.0)	NA	1.16
SUR-020-R	1	9.20E-02	( 7.0)	0.6	( 33.0)	NA	1.10
SUR-019-R	5	9.20E-02	( 7.0)	0.6	( 33.0)	NA	1.10
SUR-018-R	16	9.20E-02	( 7.0)	0.6	( 33.0)	NA	1.10
LPCI-PMS-CM	3	2.50E-03	( 26.0)	0.0	( 36.5)	NA	
LPCI-MOV-CM2	2	2.50E-03	( 26.0)	0.0	( 36.5)	NA	
LPCI-MOV-CM1	1	2.50E-03	( 26.0)	0.0	( 36.5)	NA	
LPCI-MOV-BETA	2	3.00E-02	( 15.0)	0.0	( 36.5)	NA	
RA-NONE	3	1.00E+00	( 2.0)				
FLGW-RHR-B3	18	1.00E+00	( 2.0)				
FLOW-RHR-A3	26	1.0E+00	( 2.0)				

SEQUENCE T34

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-T-SEQ3AR WITH TOP EVENT FREQUENCY 1.28E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

A-325

2	16	8	7.16E-12	0.05575	1EB235A-BCD-LF	* /CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
3					IE-T1	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-015-R	+
4	15	8	7.16E-12	0.11149	1EB235B-BCD-LF	* /CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	*
5					IE-T1	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-017-R	+
6	18	7	5.78E-12	0.15651	1EB236B-BCD-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T1	*
7					LAK10RCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	
8	22	7	5.78E-12	0.20154	1EB236D-BCD-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T1	*
9					LAK9ARCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	
10	21	7	5.78E-12	0.24156	1EB235A-BCD-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T1	*
11					LAK18BRB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	
12	19	7	5.78E-12	0.29159	1EB236B-BCD-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T1	*
13					LAK18ARA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	
14	26	7	5.78E-12	0.33661	1EB235A-BCD-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T1	*
15					LAK18BRB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	
16	20	7	5.78E-12	0.38164	1EB235A-BCD-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T1	*
17					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	
18	17	7	5.78E-12	0.42666	1EB2363-BCD-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T1	*
19					LAK18ARA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	
20	24	7	5.78E-12	0.47169	1EB235A-BCD-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T1	*
21					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	
22	25	7	5.78E-12	0.51671	1EB236B-BCD-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T1	*
23					LAK9ARCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	
24	23	7	5.78E-12	0.56174	1EB236B-BCD-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T1	*
25					LAK10RCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	
26	27	8	4.41E-12	0.59804	1EB236B-BCD-LF	* /CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	*
27					IE-T1	* LAK93ARC-ROO-LFO	* RA-2-11-27H	* SUR-017-R	+
28	28	8	4.41E-12	0.63035	1EB235A-BCD-LF	* /CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
29					IE-T1	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* SUR-015-R	+
30	1	8	1.03E-12	0.63839	1EB236B-BCD-LF	* /CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	*
31					IE-T5	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-018-R	+
32	2	8	1.03E-12	0.64644	1EB235A-BCD-LF	* /CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
33					IE-T5	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-020-R	+
34	3	8	1.03E-12	0.65448	1EB235A-BCD-LF	* /CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
35					IE-T5	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-019-R	+
36	4	8	1.03E-12	0.66253	1EB236B-BCD-LF	* /CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	*
37					IE-T5	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-018-R	+
38	29	8	9.71E-13	0.67008	1EB235A-BCD-LF	* /CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
39					IE-T3	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-015-R	+
40	31	8	9.71E-13	0.67764	1EB236B-BCD-LF	* /CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	*
41					IE-T3	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-017-R	+
42	30	8	9.71E-13	0.68520	1EB236B-BCD-LF	* /CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	*
43					IE-T3	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-017-R	+
44	7	7	8.35E-13	0.69149	1EB236B-BCD-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T5	*
45					LAK18ARA-ROO-LFO	* RA-1-1-27H	* SUR-018-R	+	



98	51	7	6.68E-13	0.85779	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T2	*
99					LAK18ARA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
100	50	7	6.68E-13	0.86299	1EB235A-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T2	*
101					LAK18BRB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	*
102	47	7	6.68E-13	0.86819	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T2	*
103					LAK9ARCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
104	48	7	6.68E-13	0.87339	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T2	*
105					LAK10RCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
106	56	7	6.68E-13	0.87860	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T2	*
107					LAK10RCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
108	55	7	6.68E-13	0.88380	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T2	*
109					LAK18ARA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
110	49	7	6.68E-13	0.88900	1EB235A-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T2	*
111					LAK18BRB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	*
112	59	8	6.52E-13	0.89408	1EB236B-BCD-LF	*/CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	*
113					1E-T4	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-017-R	+
114	58	8	6.52E-13	0.89916	1EB235A-BCD-LF	*/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
115					1E-T4	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-015-R	+
116	57	8	6.52E-13	0.90424	1EB235A-BCD-LF	*/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
117					1E-T4	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-015-R	+
118	56	8	6.52E-13	0.90932	1EB236B-BCD-LF	*/CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	*
119					1E-T4	* LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-017-R	+
120	60	8	5.97E-13	0.91397	1EB235A-BCD-LF	*/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
121					1E-T3	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* SUR-015-R	+
122	63	7	5.27E-13	0.91807	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T4	*
123					LAK10RCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
124	62	7	5.27E-13	0.92117	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T4	*
125					LAK18ARA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
126	61	7	5.27E-13	0.92628	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T4	*
127					LAK18ARA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
128	67	7	5.27E-13	0.93038	1EB235A-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T4	*
129					LAK18BRB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	*
130	68	7	5.27E-13	0.93448	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T4	*
131					LAK10RCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
132	70	7	5.27E-13	0.93858	1EB235A-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T4	*
133					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	*
134	66	7	5.27E-13	0.94268	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T4	*
135					LAK9ARCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
136	69	7	5.27E-13	0.94679	1EB236B-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T4	*
137					LAK9ARCA-ROO-LFO	* RA-1-1-27H	* SUR-017-R	+	*
138	65	7	5.27E-13	0.95089	1EB235A-BCD-LF	*/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T4	*
139					LAK18BRB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	*
140	64	7	5.27E-13	0.95499	1EB235A-BCD-LF	*/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T4	*
141					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* SUR-015-R	+	*
142	78	7	4.30E-13	0.95834	1EB236B-BCD-LF	*/CONT-LEAK	* CSCD300A-PLG-LF	* HACTK9-ROO-LFO	*
143					1E-T1	* RA-1-3-27H	* SUR-017-R	+	*
144	77	7	4.30E-13	0.96168	1EB235A-BCD-LF	*/CONT-LEAK	* CSCD300B-PLG-LF	* HACTK9-ROO-LFO	*
145					1E-T1	* RA-1-3-27H	* SUR-015-R	+	*
146	76	7	4.30E-13	0.96503	1EB235A-BCD-LF	*/CONT-LEAK	* CSCD300B-PLG-LF	* HACTK3-ROO-LFO	*
147					1E-T1	* RA-1-3-27H	* SUR-015-R	+	*
148	75	7	4.30E-13	0.96837	1EB236B-BCD-LF	*/CONT-LEAK	* CSCD300A-PLG-LF	* HACTK3-ROO-LFO	*
149					1E-T1	* RA-1-3-27H	* SUR-017-R	+	*

150	74	7	3.98E-13	0.97147	1EB235A-BCO-LF	1EB235A-BCO-LF	C20G01P-PMS-LF	/CONT-LEAK	HACTK9-ROO-LFO
151					1E-11	RA-1-3-27H	RA-1-3-27H	SUR-014-R	
152	73	7	3.98E-13	0.97457	1EB235A-FCD-LF	1EB235A-FCD-LF	C20G01P-PMS-LF	/CONT-LEAK	HACTK3-ROO-LFO
153					1E-11	RA-1-3-27H	RA-1-3-27H	SUR-014-R	
154	72	7	3.98E-13	0.97768	1EB236B-BCO-LF	1EB236B-BCO-LF	C00G01P-PMS-LF	/CONT-LEAK	HACTK3-ROO-LFO
155					1E-11	RA-1-3-27H	RA-1-3-27H	SUR-014-R	
156	71	7	3.98E-13	0.98078	1EB236B-BCO-LF	1EB236B-BCO-LF	C00G01P-PMS-LF	/CONT-LEAK	HACTK9-ROO-LFO
157					1E-11	RA-1-3-27H	RA-1-3-27H	SUR-014-R	
158	83	7	3.94E-13	0.98304	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK9-ROO-LFO	1E-11
159					RA-1-3-27H	RHR02AA-PMS-LF	RHR02AA-PMS-LF	SUR-016-R	
160	82	7	3.94E-13	0.98671	1EB235A-BCO-LF	1EB235A-BCO-LF	/CONT-LEAK	HACTK9-ROO-LFO	1E-11
161					RA-1-3-27H	RHR02BB-PMS-LF	RHR02BB-PMS-LF	SUR-015-R	
162	81	7	3.94E-13	0.99098	1EB235A-BCO-LF	1EB235A-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	1E-11
163					RA-1-3-27H	RHR02BB-PMS-LF	RHR02BB-PMS-LF	SUR-015-R	
164	80	7	3.94E-13	0.99304	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	1E-11
165					RA-1-3-27H	RHR02AA-PMS-LF	RHR02AA-PMS-LF	SUR-016-R	
166	79	7	3.94E-13	0.99611	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	1E-11
167					RA-1-3-27H	RHR02AA-PMS-LF	RHR02AA-PMS-LF	SUR-016-R	
168	84	7	3.18E-13	0.99859	1EB235A-BCO-LF	1EB235A-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	1E-11
169					LAK9BRCB-ROO-LFO	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	1E-11
170	98	8	1.21E-14	0.99868	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK9-ROO-LFO	1E-11
171					LAKTORCA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	RA-5V-1-6H	SUR-017-R
172	57	8	1.21E-14	0.99877	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	1E-11
173					LAKTORCA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	RA-5V-1-6H	SUR-017-R
174	96	8	1.21E-14	0.99887	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	1E-11
175					LAK9ARCA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	RA-5V-1-6H	SUR-017-R
176	95	8	1.21E-14	0.99896	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	1E-11
177					LAK18ARA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	RA-5V-1-6H	SUR-017-R
178	94	8	1.21E-14	0.99906	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK9-ROO-LFO	1E-11
179					LAK9ARCA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	RA-5V-1-6H	SUR-017-R
180	93	8	1.21E-14	0.99915	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	HACTK9-ROO-LFO	1E-11
181					LAK18ARA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	RA-5V-1-6H	SUR-017-R
182	100	9	9.25E-15	0.99922	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO
183					1E-11	LAK93ARC-PYO-LFO	RA-2-11-27H	RA-5V-1-6H	
184	99	9	9.25E-15	0.99930	SUR-017-R	SUR-017-R	/CONT-LEAK	FLOW-RHR-A3	HACTK9-ROO-LFO
185					1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	RA-2-11-27H	RA-5V-1-6H
186					1E-11	LAK93ARC-ROO-LFO	LAK93ARC-ROO-LFO		
187	101	7	2.45E-15	0.99932	SUR-017-R	SUR-017-R	1E-115A	LPCI-BETA	LPCI-PMS-CM
188					/CONT-LEAK	OPFAIL-VENT-6H	RA-NONE	SUR-016-R	
189	86	9	2.17E-15	0.99933	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO
190					1E-11	LAK93ARC-ROO-LFO	RA-1-3-27H	RA-5V-1-6H	
191					SUR-018-R				
192	85	9	2.17E-15	0.99935	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	FLOW-RHR-A3	HACTK9-ROO-LFO
193					1E-15	LAK93ARC-ROO-LFO	RA-1-3-27H	RA-5V-1-6H	
194					SUR-018-R				
195	103	9	2.01E-15	0.99937	1EB236B-BCO-LF	1EB236B-BCO-LF	/CONT-LEAK	FLOW-RHR-A3	HACTK3-ROO-LFO
196					1E-13	LAK93ARC-ROO-LFO	RA-1-3-27H	RA-5V-1-6H	
197					SUR-017-R				
198									



SEQUENCE T38

TOP EVENT CPDSB2-T-SEQ388 CONTAINS 103 EVENTS IN 25<sup>th</sup> CUT SETS

THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ388 IS 2.33E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ388

N	300
MEAN	1.35E-07
STD DEV	1.98E-06
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	8.41E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE 138  
RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-001-L	258	1.90E-01 ( 13.0)	2.33E-08 ( 1.5)	0.00E+00	8.41E-08
CONT-LEAK	258	7.50E-01 ( 12.0)	2.33E-08 ( 1.5)	0.00E+00	8.41E-08
RA-1-3-27H	96	2.60E-03 ( 47.0)	1.20E-08 ( 3.0)	0.00E+00	3.18E-08
RA-1-1-27H	86	2.10E-03 ( 62.0)	1.04E-08 ( 4.0)	0.00E+00	4.51E-08
HACTK3-ROO-LFO	63	2.00E-02 ( 19.0)	9.63E-09 ( 5.0)	0.00E+00	2.99E-08
HACTK9-ROO-LFO	63	2.00E-02 ( 19.0)	9.55E-09 ( 6.0)	0.00E+00	2.87E-08
FLOW-RHR-53	17	1.00E+00 ( 6.0)	2.41E-09 ( 7.0)		
FLOW-RHR-74	21	1.00E+00 ( 6.0)	2.37E-09 ( 8.0)		
LAK93ARC-RCD-LFO	16	2.00E-02 ( 19.0)	2.01E-09 ( 9.0)	0.00E+00	6.98E-09
LAK93BR-RCD-LFO	12	2.00E-02 ( 19.0)	2.00E-09 ( 10.0)	0.00E+00	6.97E-09
LAK9ARCA-RCD-LFO	13	2.00E-02 ( 19.0)	1.78E-09 ( 12.0)	0.00E+00	7.88E-09
LAK10RCA-RCD-LFO	13	2.00E-02 ( 19.0)	1.78E-09 ( 12.0)	0.00E+00	7.88E-09
LAK18ARA-RCD-LFO	13	2.00E-02 ( 19.0)	1.78E-09 ( 12.0)	0.00E+00	7.88E-09
LAK18BR-RCD-LFO	11	2.00E-02 ( 19.0)	1.77E-09 ( 14.0)	0.00E+00	7.86E-09
LAK9BRCB-RCD-LFO	10	2.00E-02 ( 19.0)	1.75E-09 ( 15.0)	0.00E+00	7.86E-09
NOFLOW-SPC-85X	5	1.00E+00 ( 6.0)	1.55E-09 ( 18.5)		
NOFLOW-SPC-85X	5	1.00E+00 ( 6.0)	1.55E-09 ( 18.5)		
NOFLOW-CSS-87A	5	1.00E+00 ( 6.0)	1.55E-09 ( 18.5)		
NOFLOW-CSS-B7A	5	1.00E+00 ( 6.0)	1.55E-09 ( 18.5)		
LAK14ARC-RCD-LFO	5	2.00E-02 ( 19.0)	1.55E-09 ( 18.5)	0.00E+00	4.63E-09
LAK14BRC-RCD-LFO	5	2.00E-02 ( 19.0)	1.55E-09 ( 18.5)	0.00E+00	4.63E-09
RA-2-11-27H	16	1.60E-03 ( 64.0)	8.34E-10 ( 22.0)	0.00E+00	1.57E-09
HACTK3CPP-LFO	7	2.90E-03 ( 42.0)	6.49E-10 ( 23.0)	0.00E+00	9.94E-10
HCSC001C-P-UUM	9	3.00E-03 ( 33.0)	5.96E-10 ( 24.0)	0.00E+00	1.59E-09
HACTK9CP7-LFO	7	2.90E-03 ( 42.0)	5.66E-10 ( 25.0)	0.00E+00	7.04E-10
EE-CST-LVL	24	1.00E+00 ( 6.0)	5.05E-10 ( 26.0)		
HCSC001C-PMS-CS	9	2.50E-03 ( 54.0)	4.97E-10 ( 27.0)	0.00E+00	6.56E-10
HCSC004C-VCC-CS	7	2.50E-03 ( 54.0)	4.88E-10 ( 28.5)	0.00E+00	6.03E-10
HCSC015C-VCC-CS	7	2.50E-03 ( 54.0)	4.88E-10 ( 28.5)	0.00E+00	6.03E-10
RHR01AX-HTX-LFB	5	6.20E-03 ( 25.5)	4.79E-10 ( 30.5)	0.00E+00	9.75E-10
RHR01BX-HTX-LFB	5	6.20E-03 ( 25.5)	4.79E-10 ( 32.0)	0.00E+00	9.75E-10
HCSC001C-PMS-LF	31	1.10E-03 ( 70.0)	3.20E-10 ( 32.0)	0.00E+00	9.87E-10
HC01K14-ROO-LFO	7	1.20E-03 ( 66.0)	2.68E-10 ( 33.0)	0.00E+00	7.50E-10
LCSC002A-P-UUM	3	3.00E-03 ( 33.0)	2.27E-10 ( 36.0)	0.00E+00	3.50E-10
RHR02AA-P-UUM	3	3.00E-03 ( 33.0)	2.27E-10 ( 36.0)	0.00E+00	3.50E-10
RHR02BB-P-UUM	3	3.00E-03 ( 33.0)	2.27E-10 ( 36.0)	0.00E+00	3.50E-10
SCSF06AA-DENER	3	1.00E+00 ( 6.0)	2.27E-10 ( 36.0)		
SCSF06BP-DENER	3	1.00E+00 ( 6.0)	2.27E-10 ( 36.0)		
RHR02AA-P-UUM	2	3.00E-03 ( 33.0)	2.22E-10 ( 41.0)	0.00E+00	4.68E-10
RHR0030-P-UUM	2	3.00E-03 ( 33.0)	2.22E-10 ( 41.0)	0.00E+00	4.68E-10
RHR028A-P-UUM	2	3.00E-03 ( 33.0)	2.22E-10 ( 41.0)	0.00E+00	4.68E-10
CG01P-P-UUM	2	3.00E-03 ( 33.0)	2.22E-10 ( 41.0)	0.00E+00	4.68E-10
CG01P-P-UUM	2	3.00E-03 ( 33.0)	2.15E-10 ( 44.0)	0.00E+00	2.01E-10
LAK936CP3-LFCC	2	2.90E-03 ( 42.0)	2.15E-10 ( 44.0)	0.00E+00	2.01E-10
LAK3ARCA-RCD-LFO	2	3.40E-03 ( 27.5)	2.03E-10 ( 45.5)	0.00E+00	6.30E-10

LAK3BRCB-RCC-LFO	2	3.40E-03 ( 27.5)	2.03E-10 ( 45.5)	0.00E+00	6.30E-10
COO601P-PMS-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.70E+00	2.25E-10
RHRF488B-V00-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.00E+00	2.25E-10
RHR8018B-B00-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.00E+00	2.25E-10
RHR801AA-B00-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.00E+00	2.25E-10
SEVY03CB-FMS-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.00E+00	2.25E-10
RHRF48AA-V00-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.00E+00	2.25E-10
NWY01CA-FMS-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.00E+00	2.25E-10
CSCF068B-VCC-CC	2	2.50E-03 ( 54.0)	1.85E-10 ( 51.0)	0.00E+00	2.25E-10
C2G5J1P-PMS-CC	2	2.90E-03 ( 42.0)	1.74E-10 ( 58.5)	0.00E+00	1.52E-10
LAK98CP3-LFOO	2	2.90E-03 ( 42.0)	1.74E-10 ( 58.5)	0.00E+00	1.52E-10
LAK9ACP3-LFOO	2	2.90E-03 ( 42.0)	1.74E-10 ( 58.5)	0.00E+00	1.52E-10
LAK93ACP3-LFCC	2	2.90E-03 ( 42.0)	1.74E-10 ( 58.5)	0.00E+00	1.52E-10
LAK188CP3-LFOO	2	2.90E-03 ( 42.0)	1.74E-10 ( 58.5)	0.00E+00	1.52E-10
LAK18ACP3-LFOO	2	2.90E-03 ( 42.0)	1.74E-10 ( 58.5)	0.00E+00	1.52E-10
LAK10ACP9-LFOO	2	2.90E-03 ( 42.0)	1.74E-10 ( 58.5)	0.00E+00	1.52E-10
CSCF068A-VCC-CC	2	2.50E-03 ( 54.0)	1.50E-10 ( 62.0)	0.00E+00	1.52E-10
RA-HSLDV-1-2H	50	2.10E-03 ( 62.0)	1.08E-10 ( 63.0)	0.00E+00	5.04E-10
CSC0300A-PLG-LF	11	1.20E-03 ( 66.0)	1.03E-10 ( 64.0)	0.00E+00	2.33E-10
CSC0300B-PLG-LF	9	1.20E-03 ( 66.0)	1.03E-10 ( 65.0)	0.00E+00	2.33E-10
COO601P-PMS-LF	5	1.10E-03 ( 70.0)	8.50E-11 ( 67.5)	0.00E+00	1.94E-10
RHR6028B-PMS-LF	5	1.10E-03 ( 70.0)	8.50E-11 ( 67.5)	0.00E+00	1.94E-10
RHR602AA-PMS-LF	5	1.10E-03 ( 70.0)	8.50E-11 ( 67.5)	0.00E+00	1.94E-10
C2D601P-PMS-LF	5	1.10E-04 ( 70.0)	8.50E-11 ( 67.5)	0.00E+00	1.94E-10
HACTCP2-FUS-LF	5	5.40E-04 ( 86.5)	8.01E-11 ( 70.5)	0.00E+00	6.78E-11
HACTCP1-FUS-LF	5	5.40E-04 ( 86.5)	8.01E-11 ( 70.5)	0.00E+00	6.78E-11
HACTK12CP5-LFCC	4	6.60E-04 ( 73.5)	7.90E-11 ( 77.0)	0.00E+00	2.57E-10
SEVY03AX-ACK-LFI	2	8.40E-04 ( 73.5)	6.22E-11 ( 73.5)	0.00E+00	6.78E-11
NWY01AX-ACK-LFI	2	8.40E-04 ( 73.5)	6.22E-11 ( 73.5)	0.00E+00	6.78E-11
EE-CSC0300A-PLG	5	7.20E-04 ( 75.0)	5.56E-11 ( 75.0)	0.00E+00	1.39E-10
COO601F-PLG-LF	7	5.80E-04 ( 83.5)	4.49E-11 ( 76.0)	0.00E+00	6.46E-11
C2D601F-PLG-LF	5	5.80E-04 ( 83.5)	4.48E-11 ( 77.0)	0.00E+00	8.45E-11
SEVY03CB-FMS-LF	2	5.40E-04 ( 86.5)	4.00E-11 ( 78.5)	0.00E+00	6.98E-11
NWY01CA-FMS-LF	2	5.40E-04 ( 86.5)	4.00E-11 ( 78.5)	0.00E+00	6.98E-11
LAK3BRCXCP1-LFCC	2	6.60E-04 ( 79.0)	3.57E-11 ( 82.5)	0.00E+00	1.29E-10
LAK3ARCXCP1-LFCC	2	6.60E-04 ( 79.0)	3.95E-11 ( 82.5)	0.00E+00	1.29E-10
LAK28BXCPC4-LFCC	2	6.60E-04 ( 79.0)	3.95E-11 ( 82.5)	0.00E+00	1.29E-10
LAK28ACXCP4-LFCC	2	6.60E-04 ( 79.0)	3.95E-11 ( 82.5)	0.00E+00	1.29E-10
AP037X4CP1-LFCC	2	6.60E-04 ( 79.0)	3.95E-11 ( 82.5)	0.00E+00	1.29E-10
AP040X4CF1-LFCC	2	6.60E-04 ( 79.0)	3.95E-11 ( 82.5)	0.00E+00	1.29E-10
HCSF015C-VCC-LF	15	5.00E-04 ( 92.5)	1.67E-11 ( 86.5)	0.00E+00	5.55E-11
HCSF004C-VCC-LF	15	5.00E-04 ( 92.5)	1.67E-11 ( 86.5)	0.00E+00	5.55E-11
OPTAIL-VENT-6H	14	2.10E-03 ( 62.0)	1.10E-11 ( 88.0)	0.00E+00	3.74E-11
RHR8018B-B00-LF	3	5.00E-04 ( 92.5)	1.57E-12 ( 89.5)	0.00E+00	3.14E-12
RHR801AA-B00-LF	3	5.00E-04 ( 92.5)	1.57E-12 ( 89.5)	0.00E+00	3.14E-12
CSCF068A-VCC-LF	1	5.00E-04 ( 92.5)	8.23E-13 ( 92.5)	0.00E+00	2.04E-12
RHRF488B-V00-LF	1	5.00E-04 ( 92.5)	8.23E-13 ( 92.5)	0.00E+00	2.04E-12
RHRF48AA-V00-LF	1	5.00E-04 ( 92.5)	8.23E-13 ( 92.5)	0.00E+00	2.04E-12
CSCF068B-VCC-LF	1	5.00E-04 ( 92.5)	8.23E-13 ( 92.5)	0.00E+00	2.04E-12
RHR2018X-STR	3	1.10E-04 ( 97.5)	3.46E-13 ( 96.5)	0.00E+00	6.84E-13
RHR301AX-STR	3	1.10E-04 ( 97.5)	3.46E-13 ( 96.5)	0.00E+00	6.84E-13
NOFLOW-RHR-81	3	1.00E+00 ( 5.0)	3.46E-13 ( 96.5)	0.00E+00	6.84E-13



SEQUENC. 138  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

CASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RA-1-1-27H	86	2.10E-03 ( 62.0)	4.93E-06 ( 1.0)	0.00E+00	3.00E-05
RA-1-3-27H	96	2.60E-03 ( 47.0)	4.61E-06 ( 2.0)	0.00E+00	2.53E-05
RA-2-11-27H	16	1.60E-03 ( 64.0)	5.21E-07 ( 3.0)	0.00E+00	1.71E-06
HACTK3-ROO-LFO	63	2.00E-02 ( 19.0)	4.72E-07 ( 4.0)	0.00E+00	2.14E-06
HACTK9-ROO-LFO	63	2.00E-02 ( 19.0)	4.68E-07 ( 5.0)	0.00E+00	2.13E-06
HCS001P-PMS-LF	31	1.10E-03 ( 70.0)	2.90E-07 ( 6.0)	0.00E+00	1.21E-06
HCT01K14-ROO-LFO	7	1.20E-03 ( 66.0)	2.23E-07 ( 7.0)	0.00E+00	9.75E-07
HACTK3CP9-LFOO	7	2.90E-03 ( 42.0)	2.23E-07 ( 8.0)	0.00E+00	9.75E-07
HCS001C-PMS-CS	9	2.50E-03 ( 54.0)	1.98E-07 ( 9.0)	0.00E+00	7.90E-07
HCS001C-P-UUM	9	3.00E-03 ( 33.0)	1.98E-07 ( 10.0)	0.00E+00	7.86E-07
HCSF013C-VCC --	7	2.50E-03 ( 54.0)	1.95E-07 ( 11.5)	0.00E+00	7.44E-07
HCSF004C-VCC-CS	7	2.50E-03 ( 54.0)	1.95E-07 ( 11.5)	0.00E+00	7.44E-07
HACTK9CP7-LFOO	7	2.90E-03 ( 42.0)	1.95E-07 ( 13.0)	0.00E+00	7.44E-07
HACTCP1-FUS-LF	5	5.40E-04 ( 86.5)	1.48E-07 ( 14.5)	0.00E+00	3.09E-07
HACTCP2-FUS-LF	5	5.40E-04 ( 86.5)	1.48E-07 ( 14.5)	0.00E+00	3.09E-07
HACTK13CP5-LFCC	4	6.60E-04 ( 79.0)	1.20E-07 ( 16.0)	0.00E+00	4.74E-07
SUR-001-L	258	1.90E-01 ( 13.0)	9.75E-08 ( 17.0)	0.00E+00	4.53E-07
LAK93ARC-ROO-LFO	16	2.00E-02 ( 19.0)	9.84E-08 ( 18.0)	0.00E+00	3.33E-07
LAK93BRC-ROO-LFO	12	2.00E-02 ( 19.0)	6.82E-08 ( 19.0)	0.00E+00	3.32E-07
LAK10BARA-ROO-LFO	13	2.00E-02 ( 19.0)	7.70E-08 ( 21.0)	0.00E+00	4.16E-07
LAK9ARCA-ROO-LFO	13	2.00E-02 ( 19.0)	8.70E-08 ( 21.0)	0.00E+00	4.16E-07
LAK10RCA-ROO-LFO	13	2.00E-02 ( 19.0)	8.70E-08 ( 21.0)	0.00E+00	4.16E-07
LAK10BRB-ROO-LFO	11	2.00E-02 ( 19.0)	3.69E-08 ( 23.0)	0.00E+00	4.16E-07
LAK98RCB-ROO-LFO	10	2.00E-02 ( 19.0)	8.59E-08 ( 24.0)	0.00E+00	4.12E-07
CSC0300A-PLG-LF	11	1.20E-03 ( 66.0)	8.57E-08 ( 25.0)	0.00E+00	2.85E-07
CSC0300B-PLG-LF	9	1.20E-03 ( 66.0)	8.56E-08 ( 26.0)	0.00E+00	2.82E-07
CDDG01F-PLG-LF	7	5.80E-04 ( 83.5)	7.74E-08 ( 27.0)	0.00E+00	1.95E-07
CZDG01F-PLG-LF	3	5.80E-04 ( 83.5)	7.72E-08 ( 28.0)	0.00E+00	1.94E-07
EE-C5FD300A-PLG	5	7.20E-04 ( 75.0)	7.72E-08 ( 26.0)	0.00E+00	1.94E-07
CZDG01P-PMS-LF	5	1.10E-03 ( 70.0)	7.72E-08 ( 31.5)	0.00E+00	1.94E-07
RHR0202A-PMS-LF	5	1.10E-03 ( 70.0)	7.72E-08 ( 31.5)	0.00E+00	1.94E-07
RHR0202B-PMS-LF	5	1.10E-03 ( 70.0)	7.72E-08 ( 31.5)	0.00E+00	1.94E-07
RHR0201P-PMS-LF	5	1.10E-03 ( 70.0)	7.72E-08 ( 31.5)	0.00E+00	1.94E-07
RHR0101X-HTX-LFB	5	6.20E-03 ( 25.5)	7.68E-08 ( 34.5)	0.00E+00	1.94E-07
RHR0101X-HTX-LFB	5	6.20E-03 ( 25.5)	7.68E-08 ( 34.5)	0.00E+00	1.94E-07
LAK145RC-RCO-LFO	5	2.00E-04 ( 19.0)	7.58E-08 ( 36.5)	0.00E+00	1.85E-07
LAK14ARC-RCO-LFO	5	2.00E-04 ( 19.0)	7.58E-08 ( 36.5)	0.00E+00	1.85E-07
LESC002A-P-UUM	3	3.00E-03 ( 33.0)	7.55E-09 ( 39.0)	0.00E+00	1.64E-07
RHR0202B-P-UUM	3	3.00E-03 ( 33.0)	7.55E-08 ( 39.0)	0.00E+00	1.64E-07
RHR0202A-P-UUM	3	3.00E-03 ( 33.0)	7.55E-08 ( 39.0)	0.00E+00	1.64E-07
SEVY03CB-FMS-LF	2	5.40E-04 ( 86.5)	7.41E-08 ( 41.5)	0.00E+00	1.54E-07
KJVT01CA-FMS-LF	2	5.40E-04 ( 86.5)	7.41E-08 ( 41.5)	0.00E+00	1.54E-07
SEVY03AX-ACX-LF1	2	8.40E-04 ( 73.5)	7.40E-08 ( 43.5)	0.00E+00	1.54E-07
NUVY01AX-ACX-LF1	2	8.40E-04 ( 73.5)	7.40E-08 ( 43.5)	0.00E+00	1.54E-07
SEVY03CB-FMS-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07

RWF4BB-V00-LC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
RWF4BA-V00-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
C00G01P-PMS-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
RHR018B-BCD-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
RHR01AA-B00-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
C20G01P-PMS-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
NMY01CA-FMS-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
CSCF06R8-VCC-CC	2	2.50E-03 ( 54.0)	7.39E-08 ( 49.0)	0.00E+00	1.53E-07
LAK938CP-LFCC	2	2.90E-03 ( 42.0)	7.39E-08 ( 54.0)	0.00E+00	1.54E-07
RRC02BB-P-N00UM	2	3.00E-03 ( 33.0)	7.39E-08 ( 57.0)	0.00E+00	1.54E-07
RRC02AA-P-N00UM	2	3.00E-03 ( 33.0)	7.39E-08 ( 57.0)	0.00E+00	1.54E-07
RRC003B-P-UJM	2	3.00E-03 ( 33.0)	7.39E-08 ( 57.0)	0.00E+00	1.54E-07
C00G01P-P-UJM	2	3.00E-03 ( 33.0)	7.39E-08 ( 57.0)	0.00E+00	1.54E-07
C20G01P-P-UJM	2	3.00E-03 ( 33.0)	7.39E-08 ( 57.0)	0.00E+00	1.54E-07
LAK3BRCKCP-LFCC	2	6.60E-04 ( 79.0)	5.98E-08 ( 62.5)	0.00E+00	2.37E-07
LAK3YRCXCP-LFCC	2	6.60E-04 ( 79.0)	5.98E-08 ( 62.5)	0.00E+00	2.37E-07
LAK288KCP-LFCC	2	6.60E-04 ( 79.0)	5.98E-08 ( 62.5)	0.00E+00	2.37E-07
LAK28ACKCP-LFCC	2	6.60E-04 ( 79.0)	5.98E-08 ( 62.5)	0.00E+00	2.37E-07
AP0-0X4CP1-LFCC	2	6.60E-04 ( 79.0)	5.98E-08 ( 62.5)	0.00E+00	2.37E-07
AP037X4CP1-LFCC	2	6.60E-04 ( 79.0)	5.98E-08 ( 62.5)	0.00E+00	2.37E-07
CSCF06SA-VCC-CC	2	2.50E-03 ( 54.0)	5.97E-08 ( 66.0)	0.00E+00	1.89E-07
LAK9BCP3-LFCC	2	2.90E-03 ( 42.0)	5.97E-08 ( 69.5)	0.00E+00	2.37E-07
LAK9ACP3-LFCC	2	2.90E-03 ( 42.0)	5.97E-08 ( 69.5)	0.00E+00	2.36E-07
LAK93ACP3-LFCC	2	2.90E-03 ( 42.0)	5.97E-08 ( 69.5)	0.00E+00	2.36E-07
LAK18HCP1-LFCC	2	2.90E-03 ( 42.0)	5.97E-08 ( 69.5)	0.00E+00	2.36E-07
LAK18ACP1-LFCC	2	2.90E-03 ( 42.0)	5.97E-08 ( 69.5)	0.00E+00	2.36E-07
LAK10ACP9-LFCC	2	3.40E-03 ( 27.5)	5.96E-08 ( 73.5)	0.00E+00	2.36E-07
LAK3BFC8-9CO-LFCC	2	3.40E-03 ( 27.5)	5.96E-08 ( 73.5)	0.00E+00	2.36E-07
LAK3ARCA-RCD-LFCC	2	3.40E-03 ( 27.5)	5.96E-08 ( 73.5)	0.00E+00	2.36E-07
RA-MSLDV-1-2H	60	2.10E-03 ( 62.0)	5.15E-08 ( 75.0)	0.00E+00	4.44E-07
HCSF015C-VCC-LF	15	5.00E-04 ( 92.5)	3.33E-08 ( 76.5)	0.00E+00	2.08E-07
HCSF004C-VCC-LF	15	5.00E-04 ( 92.5)	3.33E-08 ( 76.5)	0.00E+00	2.08E-07
COMT-LEAK	258	7.50E-01 ( 12.0)	7.78E-09 ( 78.0)	0.00E+00	0.00E+00
OPFALL-VENT-6H	14	2.10E-03 ( 62.0)	5.23E-09 ( 79.0)	0.00E+00	1.48E-08
HCSDC01X-STR	2	3.80E-05 ( 100.0)	3.59E-09 ( 80.0)	0.00E+00	1.11E-08
HCO01C8-B00-LF	2	8.40E-05 ( 99.0)	3.59E-09 ( 81.0)	0.00E+00	1.11E-08
RHR301BY-STR	3	1.10E-04 ( 97.5)	3.14E-09 ( 82.5)	0.00E+00	1.21E-08
RHR301AX-STR	3	1.10E-04 ( 97.5)	3.14E-09 ( 82.5)	0.00E+00	1.21E-08
RHR018B-B00-LF	3	5.00E-04 ( 92.5)	3.14E-09 ( 84.5)	0.00E+00	1.21E-08
RHR01AA-B00-LF	3	5.00E-04 ( 92.5)	3.14E-09 ( 84.5)	0.00E+00	1.21E-08
CSCF06SA-VCC-LF	1	5.00E-04 ( 92.5)	1.65E-09 ( 87.5)	0.00E+00	7.41E-09
RHR4R8-V00-LF	1	5.00E-04 ( 92.5)	1.65E-09 ( 87.5)	0.00E+00	7.41E-09
RHR4R8-V00-LF	1	5.00E-04 ( 92.5)	1.65E-09 ( 87.5)	0.00E+00	7.41E-09
CSCF06R8-VCC-LF	1	5.00E-04 ( 92.5)	1.65E-09 ( 87.5)	0.00E+00	7.41E-09
NOFLOW-CSS-87A	5	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00
NOFLOW-CSS-87A	5	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00
SCSF06BB-DENER	3	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00
SCSF06JA-DENER	3	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00
FLOW-RWR-B3	17	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00
FLOW-RWR-A3	21	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00
EE-CST-LVL	24	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00
NOFLOW-SPC-B5X	5	1.00E+00 ( 6.0)	0.00E+00 ( 95.0)	0.00E+00	0.00E+00

NOFLOW-SPC-ASK	5	1.00E+00	(	6.0)	0.00E+00	(	95.0)
NOFLOW-RHR-21	3	1.00E+00	(	6.0)	0.00E+00	(	95.0)
NOFLOW-FHR-A1	3	1.00E+00	(	6.0)	0.00E+00	(	95.0)

SEQUENCE 1 AR  
UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
SUR-001-L	258	1.90E-01 ( 13.0)	80.7 ( 1.0)	NA	1.28
HACTK9-ROO-LFO	63	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK93RC-ROO-LFO	12	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK14BRC-ROO-LFO	5	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK98RCP-ROO-LFO	10	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
HACTK3-ROO-LFO	63	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK18ARA-ROO-LFO	13	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK9ARCA-ROO-LFO	13	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK14ARC-ROO-LFO	5	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK93ARC-ROO-LFO	16	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK10RCA-ROO-LFO	13	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
LAK18BRB-ROO-LFO	11	2.00E-02 ( 19.0)	9.2 ( 7.0)	NA	1.44
CONT-LEAK	258	7.50E-01 ( 12.0)	6.4 ( 13.0)	NA	0.75
HCF01K14-ROO-LFO	7	1.20E-03 ( 66.0)	4.3 ( 14.0)	NA	1.01
LAK36RC-ROO-LFO	2	3.40E-03 ( 27.5)	4.3 ( 15.5)	NA	1.03
LAK3ARCA-ROO-LFO	2	3.40E-03 ( 27.5)	4.3 ( 15.5)	NA	1.03
EE-C-0300A-PLG	5	7.20E-04 ( 75.0)	2.7 ( 17.0)	NA	1.00
RHR01AX-RTX-LFB	5	6.20E-03 ( 25.5)	2.5 ( 18.5)	NA	1.02
RHR01BX-RTX-LFB	5	6.20E-03 ( 25.5)	2.5 ( 18.5)	NA	1.02
SEY03CB-FMS-LF	2	5.40E-04 ( 86.5)	2.2 ( 20.5)	NA	1.00
NWY01CA-FMS-LF	2	5.40E-04 ( 86.5)	2.2 ( 20.5)	NA	1.00
HACTCP1-FUS-LF	5	5.40E-04 ( 86.5)	1.8 ( 22.5)	NA	0.94
HALDPF2-FUS-LF	5	5.40E-04 ( 86.5)	1.8 ( 22.5)	NA	0.94
SEY03AX-ACK-LFI	2	8.40E-04 ( 73.5)	1.8 ( 24.5)	NA	1.00
NWY01AX-ACK-LFI	2	8.40E-04 ( 73.5)	1.8 ( 24.5)	NA	1.00
RHR02BB-P-NDUEM	2	3.00E-03 ( 33.0)	1.7 ( 28.0)	NA	1.11
HCS001C-P-UM	9	3.00E-03 ( 33.0)	1.7 ( 28.0)	NA	1.11
RHR02AA-P-NDUEM	2	3.00E-03 ( 33.0)	1.7 ( 28.0)	NA	1.11
C00G01P-P-UM	2	3.00E-03 ( 33.0)	1.7 ( 28.0)	NA	1.0
C20G01P-P-UM	2	3.00E-03 ( 33.0)	1.7 ( 28.0)	NA	1.0
C20G01F-PLG-LF	5	5.80E-04 ( 83.5)	1.7 ( 31.5)	NA	0.99
C00G01F-PLG-LF	7	5.80E-04 ( 83.5)	1.7 ( 31.5)	NA	0.99
CSC0300B-PLG-LF	9	1.20E-03 ( 66.0)	1.3 ( 33.5)	NA	0.98
CSC0300A-PLG-LF	11	1.20E-03 ( 66.0)	1.3 ( 33.5)	NA	0.98
LAK98CP3-LFOO	2	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
HACTK9CP7-LFOO	7	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
LAK93CP3-LFCC	2	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
HACTK3CP9-LFOO	7	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
LAK93ACP3-LFCC	2	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
LAK10ACP9-LFOO	2	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
LAK18ACPT1-LFOO	2	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
LAK186CP1-LFOO	2	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
LAK9ALCP3-LFOO	2	2.90E-03 ( 42.0)	1.3 ( 39.0)	NA	0.88
RA-1-3-27H	96	60E-03 ( 47.0)	1.2 ( 44.0)	NA	1.19
CSCF068A-VLC-LF	1	5.00E-04 ( 92.5)	0.0 ( 07.0)	NA	



LCSC002A-P-UUM	3	3.00E-03	( 33.0)	0.0	( 67.0)
HC001CB-BCO-LF	2	8.4E-05	( 99.0)	0.0	( 67.0)
CSCF068A-VCC-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
LAK3BRCKCP1-LFCO	2	6.60E-04	( 79.0)	0.0	( 67.0)
LAK3ARCKCP1-LFCO	2	6.60E-04	( 79.0)	0.0	( 67.0)
SEVY03CB-FMS-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
LAK28BXCP4-LFCO	2	6.60E-04	( 79.0)	0.0	( 67.0)
HACTK13CP5-LFCO	4	6.60E-04	( 79.0)	0.0	( 67.0)
C0DG01P-PMS-LF	5	1.10E-03	( 70.0)	0.0	( 67.0)
RHRF48BB-V00-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
LAK2FACKCP4-LFCO	2	6.60E-04	( 79.0)	0.0	( 67.0)
RHRF48B9-V00-LF	1	5.00E-04	( 92.5)	0.0	( 67.0)
RHRF48JA-V00-LF	1	5.00E-04	( 92.5)	0.0	( 67.0)
RHRF48AA-V00-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
RHRC02BB-PMS-LF	5	1.10E-03	( 70.0)	0.0	( 67.0)
RHRC02E3-P-UUM	3	3.00E-03	( 33.0)	0.0	( 67.0)
RHRC02AA-P-UUM	3	3.00E-03	( 33.0)	0.0	( 67.0)
C0DG01P-PMS-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
RHRC003B-P-UUM	2	3.00E-03	( 33.0)	0.0	( 67.0)
RHRB01BB-BOO-LF	3	5.00E-04	( 92.5)	0.0	( 67.0)
RHRB01BB-BOO-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
C2DG01P-PMS-LF	5	1.10E-03	( 70.0)	0.0	( 67.0)
RHRB01AA-BOO-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
HCSF015C-VCC-LF	15	5.00E-04	( 92.5)	0.0	( 67.0)
C2DG01P-PMS-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
RA-HSLDV-1-2H	60	2.10E-03	( 62.0)	0.0	( 67.0)
RA-2-11-27H	16	1.60E-03	( 64.0)	0.0	( 67.0)
HCSF015C-VCC-CS	7	2.50E-03	( 54.0)	0.0	( 67.0)
RA-1-1-27H	86	2.10E-03	( 62.0)	0.0	( 67.0)
RHR301AX-STR	3	1.10E-04	( 97.5)	0.0	( 67.0)
RHR301BX-STR	3	1.10E-04	( 97.5)	0.0	( 67.0)
HCSF004C-VCC-LF	15	5.00E-04	( 92.5)	0.0	( 67.0)
RHRB01AA-BOO-LF	3	5.00E-04	( 92.5)	0.0	( 67.0)
OPFALL-VENT-6H	14	2.10E-03	( 62.0)	0.0	( 67.0)
HCSF004C-VCC-CS	7	2.50E-03	( 54.0)	0.0	( 67.0)
NWVY01CA-FMS-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
HCSD001X-STR	2	3.80E-05	( 100.0)	0.0	( 67.0)
CSCF068B-VCC-LF	1	5.00E-04	( 92.5)	0.0	( 67.0)
RHRC02AA-PMS-LF	5	1.10E-03	( 70.0)	0.0	( 67.0)
HCSC001C-PMS-LF	31	1.10E-03	( 70.0)	0.0	( 67.0)
AP040X4CP1-LFCO	2	6.60E-04	( 79.0)	0.0	( 67.0)
CSCF068B-VCC-CC	2	2.50E-03	( 54.0)	0.0	( 67.0)
HCSC001C-PMS-CS	9	2.50E-03	( 54.0)	0.0	( 67.0)
AP037X4CP1-LFCO	2	6.60E-04	( 79.0)	0.0	( 67.0)
NOFLOW-CSS-B7A	5	1.00E+00	( 6.0)		
NOFLOW-CSS-A7A	5	1.00E+00	( 6.0)		
SCSF068B-DENER	3	1.00E+00	( 6.0)		
SCSF06AA-DENER	3	1.00E+00	( 6.0)		
FLOW-RHR-B3	17	1.00E+00	( 6.0)		
FLOW-RHR-A3	21	1.00E+00	( 6.0)		
EE-CST-LVL	24	1.00E+00	( 6.0)		
NOFLOW-SPC-B5X	5	1.00E+00	( 6.0)		

NOFLOW-SPC-ASK 5 1.00E+00 ( 6.0)  
NOFLOW-RWB-B1 3 1.00E+00 ( 6.0)  
NOFLOW-RWB-A1 3 1.00E+00 ( 6.0)

SEQUENCE T38

CUT SET NUMBERS, CUT SET ORDER, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-T-Q388 WITH TOP EVENT FREQUENCY 2.33E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	3	7	7.41E-10	0.03176	CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T101	*
3					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+ IE-T102	*
4		7	7.41E-10	0.06352	CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	* IE-T102	*
5					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+ IE-T102	*
6	1	8	7.41E-10	0.09528	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* LAK14ARC-ROO-LFO	*
7					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-001-L	*
8	7	8	7.41E-10	0.12704	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK14BRC-ROO-LFO	*
9					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-001-L	*
10	5	8	7.41E-10	0.15880	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* LAK14ARC-ROO-LFO	*
11					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-001-L	*
12	6	8	7.41E-10	0.19056	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK14BRC-ROO-LFO	*
13					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-001-L	*
14	8	7	7.41E-10	0.22232	CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101	*
15					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+ IE-T102	*
16	4	7	7.41E-10	0.25407	CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	* IE-T102	*
17					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+ LAK18ARA-ROO-LFO	*
18	14	6	5.98E-10	0.27973	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* LAK98RCU-ROO-LFO	*
19					RA-1-1-27H	* SUR-001-L	+ IE-T101	* LAK10RCA-ROO-LFO	*
20	13	6	5.98E-10	0.30538	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK98RCB-ROO-LFO	*
21					RA-1-1-27H	* SUR-001-L	+ IE-T102	* LAK9ARCA-ROO-LFO	*
22	15	6	5.98E-10	0.33103	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* LAK18ARA-ROO-LFO	*
23					RA-1-1-27H	* SUR-001-L	+ IE-T101	* LAK18BRB-ROO-LFO	*
24	16	6	5.98E-10	0.35668	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK9ARCA-ROO-LFO	*
25					RA-1-1-27H	* SUR-001-L	+ IE-T102	* LAK18ARA-ROO-LFO	*
26	18	6	5.98E-10	0.38233	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* LAK18BRB-ROO-LFO	*
27					RA-1-1-27H	* SUR-001-L	+ IE-T102	* LAK9ARCA-ROO-LFO	*
28	17	6	5.98E-10	0.40799	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* LAK18BRB-ROO-LFO	*
29					RA-1-1-27H	* SUR-001-L	+ IE-T101	* LAK10RCA-ROO-LFO	*
30	12	6	5.98E-10	0.43364	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK18BRB-ROO-LFO	*
31					RA-1-1-27H	* SUR-001-L	+ IE-T102	* LAK9ARCA-ROO-LFO	*
32	11	6	5.98E-10	0.45929	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* LAK9ARCA-ROO-LFO	*
33					RA-1-1-27H	* SUR-001-L	+ IE-T101	* RA-1-3-27H	*
34	10	6	5.98E-10	0.48494	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
35					RA-1-1-27H	* SUR-001-L	+ IE-T102	* RA-1-3-27H	*
36	9	6	5.98E-10	0.51059	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* RA-1-3-27H	*
37					RA-1-1-27H	* SUR-001-L	+ IE-T102	* RA-1-3-27H	*
38	19	6	2.30E-10	0.52044	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* RA-1-3-27H	*
39					RHRH01AX-HTX-LFB	* SUR-001-L	+ IE-T101	* RA-1-3-27H	*
40	22	6	2.30E-10	0.53028	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H	*
41					RHRH01AX-HTX-LFB	* SUR-001-L	+ IE-T101	* RA-1-3-27H	*
42	21	6	2.30E-10	0.54013	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H	*
43					RHRH01BX-HTX-LFB	* SUR-001-L	+ IE-T101	* RA-1-3-27H	*
44	20	6	2.30E-10	0.54997	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
45					RHRH01BX-HTX-LFB	* SUR-001-L	+ IE-T101	* RA-1-3-27H	*

46	41	6	1.11E-10	0.55474	CONT-LEAK	* HP-9-ROO-LFO	* IE-T102	* LCSC002A-P-UUM	*
47					RA-1-3-27H	* SU-001-L	+		
48	40	6	1.11E-10	0.55474	C2DG01P-P-UUM	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	*
49					RA-1-3-27H	* SUR-001-L	+		
50	39	6	1.11E-10	0.56427	C0DG01P-P-UUM	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	*
51					RA-1-3-27H	* SUR-001-L	+		
52	37	6	1.11E-10	0.56903	C2DG01P-P-UUM	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	*
53					RA-1-3-27H	* SUR-001-L	+		
54	36	6	1.11E-10	0.57379	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* LCSC002A-P-UUM	*
55					RA-1-3-27H	* SUR-001-L	+		
56	42	6	1.11E-10	0.57856	C0DG01P-P-UUM	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	*
57					RA-1-3-27H	* SUR-001-L	+		
58	31	7	1.11E-10	0.58332	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H	*
59					RHRC02BB-P-UUM	* SCSF068B-DENER	* SUR-001-L	+	
60	30	7	1.11E-10	0.58809	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* RA-1-3-27H	*
61					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-001-L	+	
62	28	6	1.11E-10	0.59285	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* RA-1-3-27H	*
63					RHRC02AA-P-NDUUM	* SUR-001-L	+		
64	24	6	1.11E-10	0.59761	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H	*
65					RHRC003B-P-UUM	* SUR-001-L	+		
66	25	6	1.11E-10	0.60238	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H	*
67					RHRC02BB-P-NDUUM	* SUR-001-L	+		
68	29	6	1.11E-10	0.60714	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* RA-1-3-27H	*
69					RHRC02AA-P-NDUUM	* SUR-001-L	+		
70	27	7	1.11E-10	0.61190	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
71					RHRC02BB-P-UUM	* SCSF068B-DENER	* SUR-001-L	+	
72	26	6	1.11E-10	0.61667	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
73					RHRC003B-P-UUM	* SUR-001-L	+		
74	23	7	1.11E-10	0.62143	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* RA-1-3-27H	*
75					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-001-L	+	
76	32	6	1.11E-10	0.62620	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
77					RHRC02BB-P-NDUUM	* SUR-001-L	+		
78	33	7	1.07E-10	0.63080	CONT-LEAK	* FLOW-RHR-B3	* HACTK3CP9-LFO	* IE-T101	*
79					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+	
80	38	7	1.07E-10	0.63541	CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101	*
81					LAK93BCP3-LFCC	* RA-1-3-27H	* SUR-001-L	+	
82	43	7	1.07E-10	0.64001	CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	* IE-T102	*
83					LAK93ACP3-LFCC	* RA-1-3-27H	* SUR-001-L	+	
84	35	7	1.07E-10	0.64462	CONT-LEAK	* FLOW-RHR-A3	* HACTK3CP9-LFO	* IE-T102	*
85					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+	
86	34	7	1.07E-10	0.64922	CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T101	*
87					LAK93BCP3-LFCC	* RA-1-3-27H	* SUR-001-L	+	
88	47	6	1.02E-10	0.65358	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK3BRCB-RCO-LFO	*
89					RA-1-1-27H	* SUR-001-L	+		
90	46	6	1.02E-10	0.65794	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK3BRCB-RCO-LFO	*
91					RA-1-1-27H	* SUR-001-L	+		
92	45	6	1.02E-10	0.66230	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* LAK3ARCA-RCO-LFO	*
93					RA-1-1-27H	* SUR-001-L	+		
94	44	6	1.02E-10	0.66667	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* LAK3ARCA-RCO-LFO	*
95					RA-1-1-27H	* SUR-001-L	+		
96	62	6	9.26E-11	0.67064	C2DG01P-PMS-CC	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	*
97					RA-1-3-27H	* SUR-001-L	+		

98	56	6	9.26E-11	0.67461	CONT-LEAK	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T102	* NWVY01CA-FMS-CC	*
99	63	6	9.26E-11	0.67857	RA-1-3-27H	SUR-001-L	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
100	63	6	9.26E-11	0.67857	CDG01P-FMS-CC	CONT-LEAK	SUR-001-L	HACTK9-ROO-LFO	* 1E-T101	*
101	57	6	9.26E-11	0.68254	RA-1-3-27H	CONT-LEAK	SUR-001-L	HACTK9-ROO-LFO	* 1E-T102	*
102	57	6	9.26E-11	0.68254	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
103	50	6	9.26E-11	0.58651	RA-1-3-27H	CONT-LEAK	SUR-001-L	HACTK3-ROO-LFO	* 1E-T102	*
104	50	6	9.26E-11	0.58651	CDG01P-FMS-CC	CONT-LEAK	SUR-001-L	HACTK3-ROO-LFO	* 1E-T102	*
105	48	6	9.26E-11	0.69048	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
106	53	6	9.26E-11	0.69445	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
107	61	6	9.26E-11	0.69842	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
108	61	6	9.26E-11	0.69842	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
109	66	6	9.26E-11	0.70239	CDG01P-FMS-CC	CONT-LEAK	RA-1-3-27H	HACTK9-ROO-LFO	* 1E-T101	*
110	66	6	9.26E-11	0.70239	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T101	*
111	60	6	9.26E-11	0.70636	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T101	*
112	56	7	9.26E-11	0.71033	RHRB01B-800-CC	CONT-LEAK	SUR-001-L	HACTK9-ROO-LFO	* 1E-T101	*
113	56	7	9.26E-11	0.71033	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T101	*
114	59	7	9.26E-11	0.71430	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
115	59	7	9.26E-11	0.71430	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
116	55	7	9.26E-11	0.71827	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T102	*
117	55	7	9.26E-11	0.71827	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T102	*
118	52	6	9.26E-11	0.72224	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
119	52	6	9.26E-11	0.72224	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
120	51	6	9.26E-11	0.72621	RHRB01B-800-CC	CONT-LEAK	SUR-001-L	HACTK3-ROO-LFO	* 1E-T102	*
121	51	6	9.26E-11	0.72621	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
122	49	7	9.26E-11	0.73018	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
123	49	7	9.26E-11	0.73018	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
124	54	6	9.26E-11	0.73415	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T101	*
125	54	6	9.26E-11	0.73415	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T101	*
126	65	6	9.26E-11	0.73812	SEVY03CB-FMS-CC	CONT-LEAK	SUR-001-L	HACTK3-ROO-LFO	* 1E-T101	*
127	65	6	9.26E-11	0.73812	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
128	64	6	9.26E-11	0.74209	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T102	*
129	64	6	9.26E-11	0.74209	CONT-LEAK	RA-1-3-27H	CONT-LEAK	HACTK9-ROO-LFO	* 1E-T102	*
130	90	6	8.98E-11	0.74594	RHRB01A-800-CC	CONT-LEAK	SUR-001-L	HACTK3-ROO-LFO	* 1E-T102	*
131	90	6	8.98E-11	0.74594	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
132	87	6	8.98E-11	0.74979	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
133	87	6	8.98E-11	0.74979	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
134	76	6	8.98E-11	0.75364	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
135	76	6	8.98E-11	0.75364	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
136	91	6	8.98E-11	0.75749	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
137	91	6	8.98E-11	0.75749	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
138	71	6	8.98E-11	0.76133	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
139	71	6	8.98E-11	0.76133	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
140	89	6	8.68E-11	0.76505	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
141	89	6	8.68E-11	0.76505	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
142	88	6	8.68E-11	0.76877	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
143	88	6	8.68E-11	0.76877	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T101	*
144	85	6	8.68E-11	0.77249	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
145	85	6	8.68E-11	0.77249	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
146	85	6	8.68E-11	0.77249	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
147	85	6	8.68E-11	0.77249	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
148	85	6	8.68E-11	0.77249	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*
149	85	6	8.68E-11	0.77249	CONT-LEAK	RA-1-1-27H	CONT-LEAK	HACTK3-ROO-LFO	* 1E-T102	*

150	80	6	8.68E-11	0.77621	CONT-LEAK	HACTK9CP7-LFOO	1E-T102	LAK18ARA-ROO-LFO *	
151					RA-1-1-27H	SUR-001-L			
152	77	6	8.68E-11	0.77993	CONT-LEAK	HACTK3CP9-LFOO	1E-T102	LAK18ARA-ROO-LFO *	
153					RA-1-1-27H	SUR-001-L			
154	74	6	8.68E-11	0.78365	CONT-LEAK	HACTK3CP9-LFOO	1E-T102	LAK9ARCA-ROO-LFO *	
155					RA-1-1-27H	SUR-001-L			
156	70	6	8.68E-11	0.78737	CONT-LEAK	HACTK9CP7-LFOO	1E-T101	LAK9BRCS-ROO-LFO *	
157					RA-1-1-27H	SUR-001-L			
158	69	6	8.68E-11	0.79109	CONT-LEAK	HACTK3CP9-LFOO	1E-T101	LAK9BRCS-ROO-LFO *	
159					RA-1-1-27H	SUR-001-L			
160	68	6	8.68E-11	0.79481	CONT-LEAK	HACTK9CP7-LFOO	1E-T102	LAK9ARCA-ROO-LFO *	
161					RA-1-1-27H	SUR-001-L			
162	67	6	8.68E-11	0.79853	CONT-LEAK	HACTK9CP7-LFOO	1E-T102	LAK10RCA-ROO-LFO *	
163					RA-1-1-27H	SUR-001-L			
164	86	6	8.68E-11	0.80225	CONT-LEAK	HACTK3-ROO-LFO	1E-T102	LAK1BACP1-LFOO *	
165					RA-1-1-27H	SUR-001-L			
166	84	6	8.68E-11	0.80597	CONT-LEAK	HACTK3-ROO-LFO	1E-T101	LAK9BCP3-LFOO *	
167					RA-1-1-27H	SUR-001-L			
168	82	6	8.68E-11	0.80969	CONT-LEAK	HACTK9-ROO-LFO	1E-T102	LAK1BACP1-LFOO *	
169					RA-1-1-27H	SUR-001-L			
170	81	6	8.68E-11	0.81341	CONT-LEAK	HACTK9-ROO-LFO	1E-T102	LAK9ACP3-LFOO *	
171					RA-1-1-27H	SUR-001-L			
172	83	6	8.68E-11	0.81713	CONT-LEAK	HACTK9-ROO-LFO	1E-T102	LAK10ACP9-LFOO *	
173					RA-1-1-27H	SUR-001-L			
174	79	6	8.68E-11	0.82084	CONT-LEAK	HACTK3-ROO-LFO	1E-T102	LAK10ACP9-LFOO *	
175					RA-1-1-27H	SUR-001-L			
176	78	6	8.68E-11	0.82456	CONT-LEAK	HACTK3-ROO-LFO	1E-T102	LAK9ACP3-LFOO *	
177					RA-1-1-27H	SUR-001-L			
178	75	6	8.68E-11	0.82828	CONT-LEAK	HACTK9-ROO-LFO	1E-T101	LAK9BCP3-LFOO *	
179					RA-1-1-27H	SUR-001-L			
180	73	6	8.68E-11	0.83200	CONT-LEAK	HACTK9-ROO-LFO	1E-T101	LAK18BCP1-LFOO *	
181					RA-1-1-27H	SUR-001-L			
182	72	6	8.68E-11	0.83572	CONT-LEAK	HACTK3-ROO-LFO	1E-T101	LAK18BCP1-LFOO *	
183					RA-1-1-27H	SUR-001-L			
184	106	6	7.48E-11	0.83893	CONT-LEAK	HCSF004C-VCC-CS	1E-T101	LAK18BR8-ROO-LFO *	
185					RA-1-1-27H	SUR-001-L			
186	105	6	7.48E-11	0.84214	CONT-LEAK	HCS001C-PMS-CS	1E-T101	LAK9BRCS-ROO-LFO *	
187					RA-1-1-27H	SUR-001-L			
188	104	6	7.48E-11	0.84534	CONT-LEAK	HCS001C-PMS-CS	1E-T101	LAK18R5B-ROO-LFO *	
189					RA-1-1-27H	SUR-001-L			
190	102	7	7.48E-11	0.84855	CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-T101	
191					LAK9RCS-ROO-LFO	RA-1-1-27H	SUR-001-L	LAK10RCA-ROO-LFO *	
192	101	6	7.48E-11	0.85176	CONT-LEAK	HCSF004C-VCC-CS	1E-T102		
193					RA-1-1-27H	SUR-001-L			
194	100	6	7.48E-11	0.85496	CONT-LEAK	HCS001C-PMS-CS	1E-T102	LAK18ARA-ROO-LFO *	
195					RA-1-1-27H	SUR-001-L			
196	99	7	7.48E-11	0.85817	CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-T101	
197					LAK18R5B-ROO-LFO	RA-1-1-27H	SUR-001-L	LAK9ARCA-ROO-LFO *	
198	98	6	7.48E-11	0.86137	CONT-LEAK	HCSF004C-VCC-CS	1E-T102		
199					RA-1-1-27H	SUR-001-L			
200	97	7	7.48E-11	0.86459	CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-T102	
201					LAK10RCA-ROO-LFO	RA-1-1-27H	SUR-001-L		

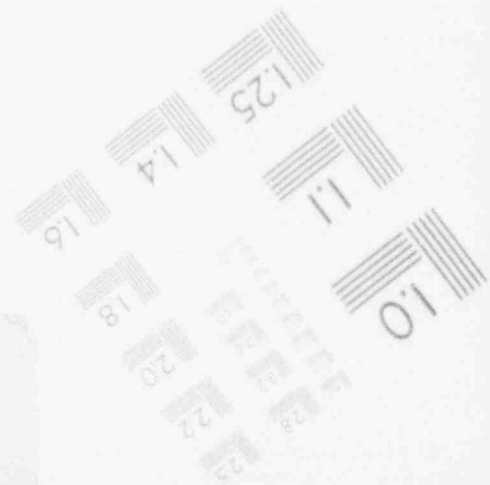
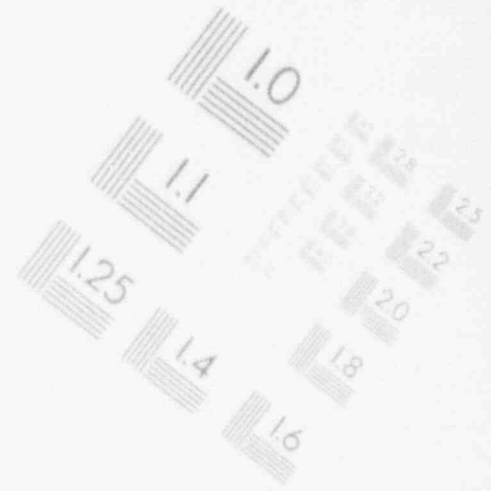
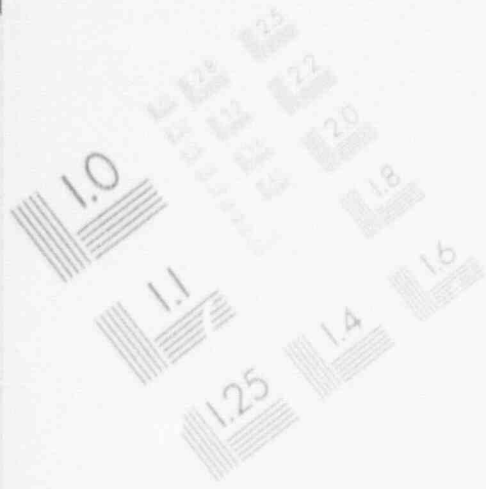
202	96	7	7.48E-11	0.86779	CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	IE-T102	*
203					LAK1BARA-ROO-LFO	RA-1-1-27H	SUR-001-L		*
204	103	6	7.48E-11	0.87099	CONT-LEAK	HCSF004C-VCC-CS	IE-T102	LAK1BARA-ROO-LFO	*
205					RA-1-1-27H	SUR-001-L			*
206	95	7	7.48E-11	0.87420	CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	IE-T102	*
207					LAK9AFCA-ROO-LFO	RA-1-1-27H	SUR-001-L		*
208	94	6	7.48E-11	0.87741	CONT-LEAK	HCS001C-PMS-CS	IE-T102	LAK1DRCA-ROO-LFO	*
209					RA-1-1-27H	SUR-001-L			*
210	93	6	7.48E-11	0.88061	CONT-LEAK	HCSF004C-VCC-CS	IE-T102	LAK7BRCB-ROO-LFO	*
211					RA-1-1-27H	SUR-001-L			*
212	92	6	7.48E-11	0.88382	CONT-LEAK	HCS001C-PMS-CS	IE-T102	LAK9ARCA-ROO-LFO	*
213					RA-1-1-27H	SUR-001-L			*
214	110	7	6.84E-11	0.88675	CONT-LEAK	FLOW-RHR-A3	HCS001C-P-UM	IE-T102	*
215					LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-001-L		*
216	109	7	6.84E-11	0.88968	CONT-LEAK	FLOW-RHR-B3	HCS001C-P-UM	IE-T101	*
217					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-001-L		*
218	111	7	6.61E-11	0.89252	CONT-LEAK	FLOW-RHR-B3	HACTK9EP7-LFO	IE-T101	*
219					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-001-L		*
220	107	7	6.61E-11	0.89535	CONT-LEAK	FLOW-RHR-A3	HACTK9CP7-LFO	IE-T102	*
221					LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-001-L		*
222	108	7	6.61E-11	0.89818	CONT-LEAK	FLOW-RHR-A3	HACTK9-R30-LFO	IE-T102	*
223					LAK93ACP3-LFDC	RA-2-11-27H	SUR-001-L		*
224	118	7	5.70E-11	0.90063	CONT-LEAK	FLOW-RHR-A3	HCS001C-PMS-CS	IE-T102	*
225					LAK93ARC-R30-LFO	RA-2-11-27H	SUR-001-L		*
226	117	6	5.70E-11	0.90307	CONT-LEAK	CSD368A-VCC-CC	HACTK9-ROO-LFO	IE-T102	*
227					RA-2-1-27H	SUR-001-L			*
228	116	8	5.70E-11	0.90551	CONT-LEAK	EE-CST-LVL	FLOW-RHR-A3	HCSF015C-VCC-CS	*
229					IE-T102	LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-001-L	*
230	114	7	5.70E-11	0.90796	CONT-LEAK	FLOW-RHR-B3	HCS001C-PMS-CS	IE-T101	*
231					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-001-L		*
232	113	8	5.70E-11	0.91040	CONT-LEAK	EE-CST-LVL	FLOW-RHR-B3	HCSF015C-VCC-CS	*
233					IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-001-L	*
234	112	7	5.70E-11	0.91284	CONT-LEAK	FLOW-RHR-A3	HCSF004C-VCC-CS	IE-T102	*
235					LAK93A-C-ROO-LFO	RA-2-11-27H	SUR-001-L		*
236	115	7	5.70E-11	0.91529	CONT-LEAK	FLOW-RHR-B3	HCSF004C-VCC-CS	IE-T101	*
237					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-001-L		*
238	124	6	4.45E-11	0.91717	CONT-LEAK	CSD300A-PLG-LF	HACTK3-ROO-LFO	IE-T102	*
239					RA-1-3-27H	SUR-001-L			*
240	123	6	4.45E-11	0.91910	CONT-LEAK	CSD300A-PLG-LF	HACTK3-ROO-LFO	IE-T102	*
241					RA-1-3-27H	SUR-001-L			*
242	122	7	4.45E-11	0.92100	CONT-LEAK	FLOW-RHR-B3	HCO1K14-ROO-LFO	IE-T101	*
243					LAK93BRC-ROO-LFO	RA-1-3-27H	SUR-001-L		*
244	121	6	4.45E-11	0.92291	CONT-LEAK	CSD300B-PLG-LF	HACTK9-ROO-LFO	IE-T101	*
245					RA-1-3-27H	SUR-001-L			*
246	120	6	4.45E-11	0.92481	CONT-LEAK	CSD300B-PLG-LF	HACTK3-ROO-LFO	IE-T101	*
247					RA-1-3-27H	SUR-001-L			*
248	119	7	4.45E-11	0.92672	CONT-LEAK	FLOW-RHR-A3	HCO1K14-ROO-LFO	IE-T102	*
249					LAK93ARC-ROO-LFO	RA-1-3-27H	SUR-001-L		*
250	132	6	4.08E-11	0.92867	CONT-LEAK	CONT-LEAK	HACTK9-ROO-LFO	IE-T102	*
251					CSDG01P-PMS-LF	SUR-001-L			*
252	131	6	4.06E-11	0.93021	CONT-LEAK	CONT-LEAK	HACTK5-ROO-LFO	IE-T102	*
253					RA-1-3-27H	SUR-001-L			*

254	130	6	4.08E-11	0.93196	C2D601P-PMS-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	*
255	129	6	4.08E-11	0.93371	RA-1-3-27H	* SUR-001-L	* HACTK3-ROO-LFO	* IE-T101	*
256	127	6	4.08E-11	0.93545	C2D601P-PMS-LF	* CONT-LEAK			*
257	126	6	4.08E-11	0.93720	RA-1-3-27H	* SUR-001-L			*
258	125	6	4.08E-11	0.93895	CONT-LEAK	* HACTK3-ROO-LFO			*
259	128	6	4.08E-11	0.94069	RHRC02AA-PMS-LF	* SUR-001-L			*
260	137	6	3.59E-11	0.94223	CONT-LEAK	* HACTK3-ROO-LFO			*
261	136	6	3.59E-11	0.94377	RHRC02BB-PMS-LF	* SUR-001-L			*
262	135	6	3.59E-11	0.94531	CONT-LEAK	* HACTK9-ROO-LFO			*
263	134	6	3.59E-11	0.94685	RHRC02AA-PMS-LF	* SUR-001-L			*
264	133	6	3.59E-11	0.94839	CONT-LEAK	* HACTK9-ROO-LFO			*
265	146	6	3.29E-11	0.94980	RHRC02BB-PMS-LF	* SUR-001-L			*
266	145	6	3.25E-11	0.95121	CONT-LEAK	* HACTK9-ROO-LFO			*
267	144	6	3.29E-11	0.95262	RA-1-1-27H	* SUR-001-L			*
268	143	6	3.29E-11	0.95403	CONT-LEAK	* HACTK9-ROO-LFO			*
269	142	6	3.29E-11	0.95544	RA-1-1-27H	* SUR-001-L			*
270	141	6	3.11E-11	0.95676	CONT-LEAK	* HACTK9-ROO-LFO			*
271	140	6	3.11E-11	0.95811	RA-1-1-27H	* SUR-001-L			*
272	139	6	3.11E-11	0.95945	CONT-LEAK	* HACTK3-ROO-LFO			*
273	138	6	3.11E-11	0.96078	RA-1-3-27H	* SUR-001-L			*
274	148	6	2.67E-11	0.96192	CONT-LEAK	* HACTK3-ROO-LFO			*
275	147	6	2.67E-11	0.96307	RA-1-3-27H	* SUR-001-L			*
276	152	7	2.51E-11	0.96414	CONT-LEAK	* HACTK9-ROO-LFO			*
277	151	8	2.51E-11	0.96522	RA-1-3-27H	* SUR-001-L			*
278	150	7	2.51E-11	0.96629	CONT-LEAK	* HACTK3-ROO-LFO			*
279	149	8	2.51E-11	0.96737	RA-1-3-27H	* SUR-001-L			*
280	148	6	2.67E-11	0.96841	CONT-LEAK	* HACTK9-ROO-LFO			*
281	147	6	2.67E-11	0.96945	RA-1-3-27H	* SUR-001-L			*
282	146	6	2.67E-11	0.97049	CONT-LEAK	* HACTK3-ROO-LFO			*
283	145	6	2.67E-11	0.97153	RA-1-3-27H	* SUR-001-L			*
284	144	6	2.67E-11	0.97257	CONT-LEAK	* HACTK9-ROO-LFO			*
285	143	6	2.67E-11	0.97361	RA-1-3-27H	* SUR-001-L			*
286	142	6	2.67E-11	0.97465	CONT-LEAK	* HACTK3-ROO-LFO			*
287	141	6	2.67E-11	0.97569	RA-1-3-27H	* SUR-001-L			*
288	140	6	2.67E-11	0.97673	CONT-LEAK	* HACTK9-ROO-LFO			*
289	139	6	2.67E-11	0.97777	RA-1-3-27H	* SUR-001-L			*
290	138	6	2.67E-11	0.97881	CONT-LEAK	* HACTK3-ROO-LFO			*
291	137	6	2.67E-11	0.97985	RA-1-3-27H	* SUR-001-L			*
292	136	6	2.67E-11	0.98089	CONT-LEAK	* HACTK9-ROO-LFO			*
293	135	6	2.67E-11	0.98193	RA-1-3-27H	* SUR-001-L			*
294	134	6	2.67E-11	0.98297	CONT-LEAK	* HACTK3-ROO-LFO			*
295	133	6	2.67E-11	0.98401	RA-1-3-27H	* SUR-001-L			*
296	132	6	2.67E-11	0.98505	CONT-LEAK	* HACTK9-ROO-LFO			*
297	131	6	2.67E-11	0.98609	RA-1-3-27H	* SUR-001-L			*
298	130	6	2.67E-11	0.98713	CONT-LEAK	* HACTK3-ROO-LFO			*
299	129	6	2.67E-11	0.98817	RA-1-3-27H	* SUR-001-L			*
300	128	6	2.67E-11	0.98921	CONT-LEAK	* HACTK9-ROO-LFO			*
301	127	6	2.67E-11	0.99025	RA-1-3-27H	* SUR-001-L			*
302	126	6	2.67E-11	0.99129	CONT-LEAK	* HACTK3-ROO-LFO			*
303	125	6	2.67E-11	0.99233	RA-1-3-27H	* SUR-001-L			*
304	124	6	2.67E-11	0.99337	CONT-LEAK	* HACTK9-ROO-LFO			*
305	123	6	2.67E-11	0.99441	RA-1-3-27H	* SUR-001-L			*



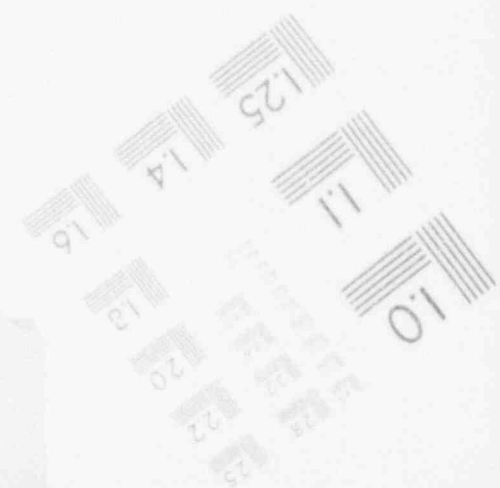
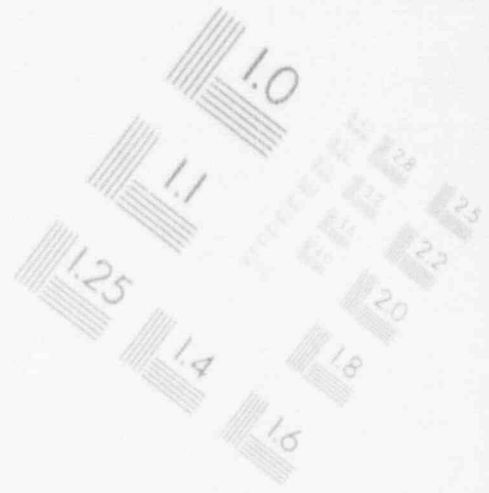
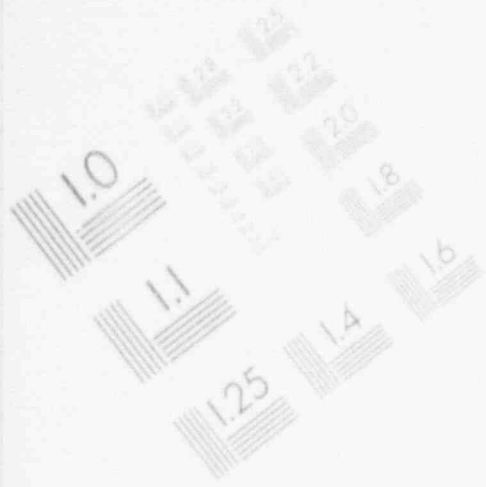
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## IMAGE EVALUATION TEST TARGET (MT-3)



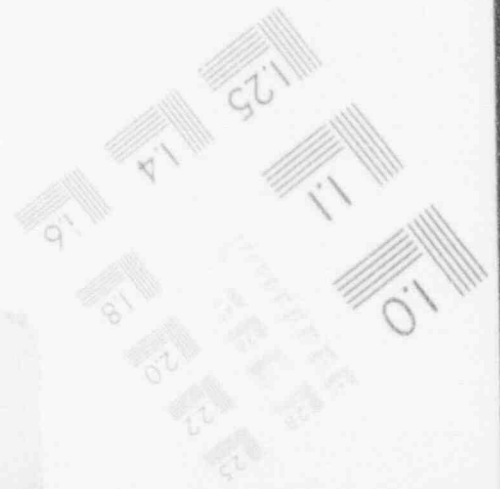
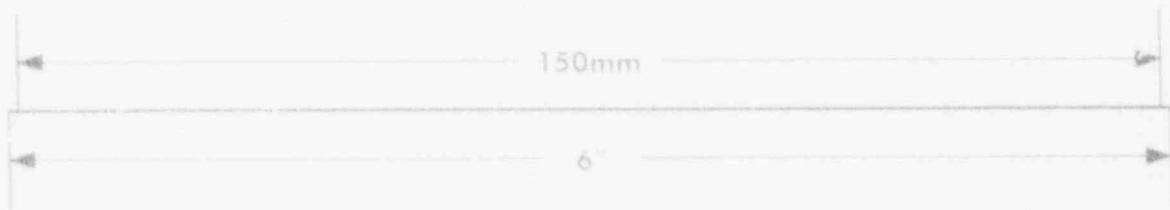
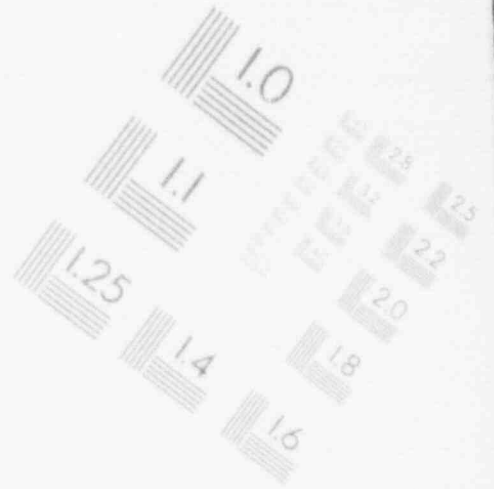
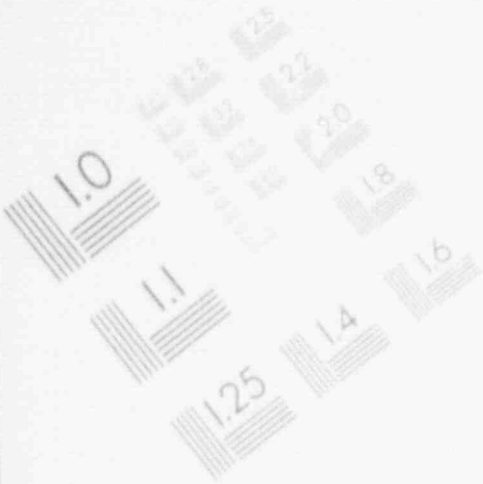
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## IMAGE EVALUATION TEST TARGET (MT-3)



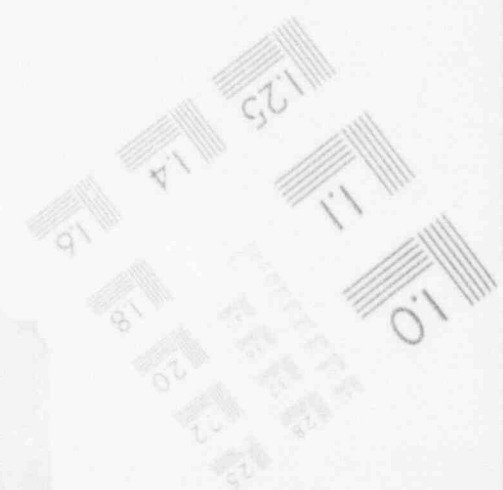
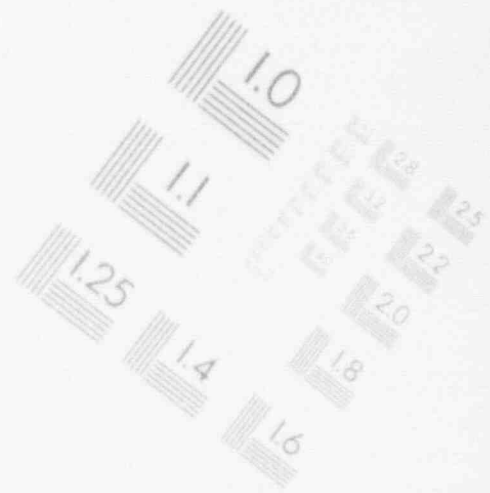
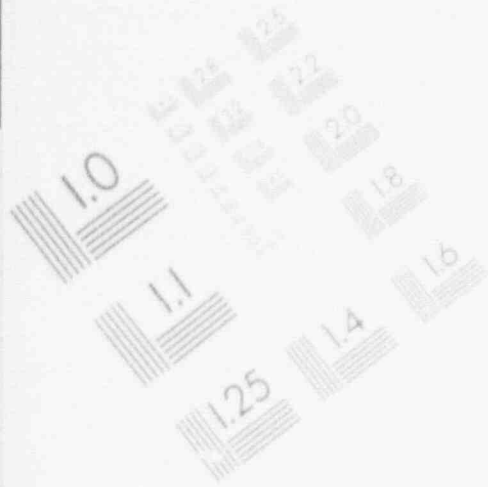
# 1

## IMAGE EVALUATION TEST TARGET (MT-3)



# 1

## IMAGE EVALUATION TEST TARGET (MT-3)



306	156	6	2.15E-11	0.96829	C0D601F-PLG-LF	* CONT-LEAK	* HACT13-ROO-LFO	* IE-T102	*
307					RA-1-3-27H	* SUR-001-L	+		
308	155	6	2.15E-11	0.96921	C0D601F-PLG-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	*
309					RA-1-3-27H	* SUR-001-L	+		
310	154	6	2.15E-11	0.97013	C2D601F-PLG-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	*
311					RA-1-3-27H	* SUR-001-L	+		
312	153	6	2.15E-11	0.97105	C2D601F-PLG-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	*
313					RA-1-3-27H	* SUR-001-L	+		
314	168	8	2.00E-11	0.97191	CONT-LEAK	* HACTCPF1-FUS-LF	* IE-T102	* LAK14ARC-RCO-LFO	*
315					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-001-L	+
316	166	7	2.00E-11	0.97276	CONT-LEAK	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	* IE-T101	*
317					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+	
318	165	7	2.00E-11	0.97362	CONT-LEAK	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	* IE-T101	*
319					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+	
320	164	7	2.00E-11	0.97448	CONT-LEAK	* FLOW-RHR-A3	* HACTCPF1-FUS-LF	* IE-T102	*
321					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+	
322	163	7	2.00E-11	0.97534	CONT-LEAK	* FLOW-RHR-A3	* HACTCPF2-FUS-LF	* IE-T102	*
323					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-001-L	+	
324	162	8	2.00E-11	0.97619	CONT-LEAK	* HACTCPF1-FUS-LF	* IE-T101	* LAK14BRC-RCO-LFO	*
325					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-001-L	+
326	161	8	2.00E-11	0.97705	CONT-LEAK	* HACTCPF2-FUS-LF	* IE-T101	* LAK14BRC-RCO-LFO	*
327					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-001-L	+
328	160	6	2.00E-11	0.97791	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* NWVY01CA-FMS-LF	*
329					RA-1-3-27H	* SUR-001-L	+		
330	159	6	2.00E-11	0.97877	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	* NWVY01CA-FMS-LF	*
331					RA-1-3-27H	* SUR-001-L	+		
332	167	8	2.00E-11	0.97962	CONT-LEAK	* HACTCPF2-FUS-LF	* IE-T102	* LAK14ARC-RCO-LFO	*
333					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-001-L	+
334	158	6	2.00E-11	0.98048	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
335					SEVY03CB-FMS-LF	* SUR-001-L	+		
336	157	6	2.00E-11	0.98134	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H	*
337					SEVY03CB-FMS-LF	* SUR-001-L	+		
338	184	6	1.98E-11	0.98219	CONT-LEAK	* HACTK13CP5-LFCO	* IE-T101	* LAK18BRB-ROO-LFO	*
339					RA-1-1-27H	* SUR-001-L	+		
340	182	6	1.98E-11	0.98303	AP037X4CP1-LFCO	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	*
341					RA-1-1-27H	* SUR-001-L	+		
342	179	6	1.98E-11	0.98398	AP037X4CP1-LFCO	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	*
343					RA-1-1-27H	* SUR-001-L	+		
344	177	6	1.98E-11	0.98473	AP040X4CP1-LFCO	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	*
345					RA-1-1-27H	* SUR-001-L	+		
346	176	6	1.98E-11	0.98557	CONT-LEAK	* HACTK13CP5-LFCO	* IE-T102	* LAK18ARA-ROO-LFO	*
347					RA-1-1-27H	* SUR-001-L	+		
348	173	6	1.98E-11	0.98642	CONT-LEAK	* HACTK13CP5-LFCO	* IE-T102	* LAK9ARCA-ROO-LFO	*
349					RA-1-1-27H	* SUR-001-L	+		
350	172	6	1.98E-11	0.98727	AP040X4CP1-LFCO	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	*
351					RA-1-1-27H	* SUR-001-L	+		
352	169	6	1.98E-11	0.98811	CONT-LEAK	* HACTK13CP5-LFCO	* IE-T102	* LAK10RCA-ROO-LFO	*
353					RA-1-1-27H	* SUR-001-L	+		
354	183	6	1.98E-11	0.98896	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* LAK28ACXCP4-LFCO	*
355					RA-1-1-27H	* SUR-001-L	+		
356	181	6	1.98E-11	0.98980	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	* LAK3ARCXCP1-LFCO	*
357					RA-1-1-27H	* SUR-001-L	+		

358	180	6	1.98E-11	0.99065	CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK2BACXC4-LFCO *
359					RA-1-1-27H	* SUR-001-L	+	
360	178	6	1.98E-11	0.99150	CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK3AC...LFCO *
361					RA-1-1-27H	* SUR-001-L	+	
362	175	6	1.98E-11	0.99234	CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* LAK3BRXCXP1-LFCO *
363					RA-1-1-27H	* SUR-001-L	+	
364	174	6	1.98E-11	0.99319	CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* LAK28BXC4-LFCO *
365					RA-1-1-27H	* SUR-001-L	+	
366	171	6	1.98E-11	0.99404	CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* LAK3BRXCXP1-LFCO *
367					RA-1-1-27H	* SUR-001-L	+	
368	170	6	1.98E-11	0.99488	CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* LAK28BXC4-LFCO *
369					RA-1-1-27H	* SUR-001-L	+	
370	186	6	1.02E-11	0.99532	CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T102	* RA-MSLDV-1-2H *
371					RHRH01AX-HTX-LFB	* SUR-001-L	+	
372	185	6	1.02E-11	0.99576	CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T101	* RA-MSLDV-1-2H *
373					RHRH01BX-HTX-LFB	* SUR-001-L	+	
374	188	6	5.39E-12	0.99599	CONT-LEAK	* CSCD300A-PLG-LF	* HCSC001C-P-UUM	* 1E-T102 *
375					RA-MSLDV-1-2H	* SUR-001-L	+	
376	187	6	5.39E-12	0.99622	CONT-LEAK	* CSCD300B-PLG-LF	* HCSC001C-P-UUM	* 1E-T101 *
377					RA-MSLDV-1-2H	* SUR-001-L	+	
378	191	6	4.94E-12	0.99643	CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T102	* LCSC002A-P-UUM *
379					RA-MSLDV-1-2H	* SUR-001-L	+	
380	190	7	4.94E-12	0.99664	CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T101	* RA-MSLDV-1-2H *
381					RHRD02BB-P-UUM	* SCSE06BB-DENER	* SUR-001-L	+
382	189	7	4.94E-12	0.99686	CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T102	* RA-MSLDV-1-2H *
383					RHRD02AA-P-UUM	* SCSE06AA-DENER	* SUR-001-L	+
384	195	6	4.64E-12	0.99705	CONT-LEAK	* HCSE004C-VCC-LF	* 1E-T101	* RA-MSLDV-1-2H *
385					RHRH01BX-HTX-LFB	* SUR-001-L	+	
386	194	7	4.64E-12	0.99725	CONT-LEAK	* EE-CST-LVL	* HCSE015C-VCC-LF	* 1E-T101 *
387					RA-MSLDV-1-2H	* RHRH01BX-HTX-LFB	* SUR-001-L	+
388	193	6	4.64E-12	0.99745	CONT-LEAK	* HCSE004C-VCC-LF	* 1E-T102	* RA-MSLDV-1-2H *
389					RHRH01AX-HTX-LFB	* SUR-001-L	+	
390	192	7	4.64E-12	0.99765	CONT-LEAK	* EE-CST-LVL	* HCSE015C-VCC-LF	* 1E-T102 *
391					RA-MSLDV-1-2H	* RHRH01AX-HTX-LFB	* SUR-001-L	+
392	197	6	4.49E-12	0.99784	CONT-LEAK	* CSCD300A-PLG-LF	* HCSC001C-PMS-CS	* 1E-T102 *
393					RA-MSLDV-1-2H	* SUR-001-L	+	
394	196	6	4.49E-12	0.99804	CONT-LEAK	* CSCD300B-PLG-LF	* HCSC001C-PMS-CS	* 1E-T101 *
395					RA-MSLDV-1-2H	* SUR-001-L	+	
396	199	6	1.98E-12	0.99812	CONT-LEAK	* CSCD300A-PLG-LF	* HCSC001C-PMS-LF	* 1E-T102 *
397					RA-MSLDV-1-2H	* SUR-001-L	+	
398	198	6	1.98E-12	0.99820	CONT-LEAK	* CSCD300B-PLG-LF	* HCSC001C-PMS-LF	* 1E-T101 *
399					RA-MSLDV-1-2H	* SUR-001-L	+	
400	203	6	1.81E-12	0.99828	CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T102	* RA-MSLDV-1-2H *
401					RHRD02AA-PMS-LF	* SUR-001-L	+	
402	202	6	1.81E-12	0.99836	CONT-LEAK	* CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T102 *
403					RA-MSLDV-1-2H	* SUR-001-L	+	
404	201	6	1.81E-12	0.99844	CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T101	* RA-MSLDV-1-2H *
405					RHRD02BB-PMS-LF	* SUR-001-L	+	
406	200	6	1.81E-12	0.99851	CONT-LEAK	* CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T101 *
407					RA-MSLDV-1-2H	* SUR-001-L	+	

SEQUENCE T40

TOP EVENT CPDSB2-T-SEQ388 CONTAINS 106 EVENTS IN 258 CUT SETS

THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ388 IS 1.19E-11

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ388

N	300
MEAN	3.76E-11
STD DEV	3.83E-10
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	3.28E-11

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE 140  
RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RA-1-3-27H	96	2.60E-03 ( 46.0)	6.12E-12 ( 1.0)	0.00E+00	1.04E-11
RA-1-1-27H	86	2.10E-03 ( 61.0)	5.27E-12 ( 2.0)	0.00E+00	1.70E-11
HACTK3-ROO-LFO	63	2.00E-02 ( 18.0)	2.90E-12 ( 3.0)	0.00E+00	1.44E-11
HACTK5-ROO-LFO	63	2.00E-02 ( 18.0)	4.86E-12 ( 4.0)	0.00E+00	1.43E-11
SUR-007-R	86	2.90E-04 ( 97.5)	4.78E-12 ( 5.0)	0.00E+00	1.27E-11
SUR-009-R	95	2.90E-04 ( 97.5)	4.74E-12 ( 6.0)	0.00E+00	1.53E-11
SUR-008-R	32	2.90E-04 ( 97.5)	1.30E-12 ( 7.0)	0.00E+00	2.46E-12
FLOW-RHR-B3	17	1.00E+00 ( 6.0)	1.22E-12 ( 8.0)		
FLOW-RHR-A3	21	1.00E+00 ( 6.0)	1.20E-12 ( 9.0)		
SUR-029-R	45	2.90E-04 ( 97.5)	1.05E-12 ( 10.0)	0.00E+00	2.51E-12
LAK93ARC-ROO-LFO	16	2.00E-02 ( 18.0)	1.02E-12 ( 11.0)	0.00E+00	1.61E-12
LAK93BRC-ROO-LFO	12	2.00E-02 ( 18.0)	1.02E-12 ( 12.0)	0.00E+00	1.61E-12
LAK10RCA-ROO-LFO	13	2.00E-02 ( 18.0)	9.04E-13 ( 14.0)	0.00E+00	3.11E-12
LAK9ARCA-ROO-LFO	13	2.00E-02 ( 18.0)	9.04E-13 ( 14.0)	0.00E+00	3.11E-12
LAK18ARA-ROO-LFO	13	2.00E-02 ( 18.0)	9.04E-13 ( 14.0)	0.00E+00	3.11E-12
LAK18RBR-ROO-LFO	11	2.00E-02 ( 18.0)	9.02E-13 ( 16.0)	0.00E+00	3.11E-12
LAK98RCB-ROO-LFO	10	2.00E-02 ( 18.0)	8.52E-13 ( 17.0)	0.00E+00	3.06E-12
LAK14ARC-PCO-LFO	5	2.00E-02 ( 18.0)	7.87E-13 ( 20.5)	0.00E+00	1.06E-12
LAK14BRC-RCO-LFO	5	2.00E-02 ( 18.0)	7.87E-13 ( 20.5)	0.00E+00	1.06E-12
NOFLOW-SPC-85X	5	1.00E+00 ( 6.0)	7.87E-13 ( 20.5)		
NOFLOW-CSS-87A	5	1.00E+00 ( 6.0)	7.87E-13 ( 20.5)		
NOFLOW-CSS-A7A	5	1.00E+00 ( 6.0)	7.87E-13 ( 20.5)		
NOFLOW-SPC-A5X	5	1.00E+00 ( 6.0)	7.87E-13 ( 20.5)		
RA-2-11-27H	16	1.60E-03 ( 63.0)	4.25E-13 ( 24.0)	0.00E+00	1.06E-12
HACTK3CP9-LFO	7	2.90E-03 ( 41.0)	3.30E-13 ( 25.0)	0.00E+00	6.38E-13
HCS001C-P-UUM	9	3.00E-03 ( 32.0)	3.03E-13 ( 26.0)	0.00E+00	1.30E-12
HACTK9CP7-LFO	7	2.90E-03 ( 41.0)	2.89E-13 ( 27.0)	0.00E+00	6.65E-13
EE-CST-LVL	24	1.00E+00 ( 6.0)	2.57E-13 ( 28.0)		
HCS001C-PMS-CS	9	2.50E-03 ( 53.0)	2.53E-13 ( 29.0)	0.00E+00	6.97E-13
HCSF015C-VCC-CS	7	2.50E-03 ( 53.0)	2.48E-13 ( 30.5)	0.00E+00	5.55E-13
HCSF004C-VCC-CS	7	2.50E-03 ( 53.0)	2.48E-13 ( 30.5)	0.00E+00	5.55E-13
RHR018X-HTX-LFB	5	6.20E-03 ( 24.5)	2.44E-13 ( 32.5)	0.00E+00	3.61E-13
RHR018X-HTX-LFB	5	6.20E-03 ( 24.5)	2.44E-13 ( 32.5)	0.00E+00	3.61E-13
HCS001C-PMS-LF	31	1.10E-03 ( 69.0)	1.63E-13 ( 34.0)	0.00E+00	4.39E-13
HC01K14-ROO-LFO	7	1.20E-03 ( 65.0)	1.37E-13 ( 35.0)	0.00E+00	3.69E-13
LCS0002A-P-UUM	3	3.00E-03 ( 32.0)	1.16E-13 ( 38.0)	0.00E+00	1.51E-13
RHR028B-P-UUM	3	3.00E-03 ( 32.0)	1.16E-13 ( 38.0)	0.00E+00	1.51E-13
RHR028B-P-UUM	3	3.00E-03 ( 32.0)	1.16E-13 ( 38.0)	0.00E+00	1.51E-13
SCSF068B-DENER	3	1.00E+00 ( 6.0)	1.16E-13 ( 38.0)		
SCSF068A-DENER	3	1.00E+00 ( 6.0)	1.16E-13 ( 38.0)	0.00E+00	2.08E-13
C2P601P-P-UUM	2	3.00E-03 ( 32.0)	1.13E-13 ( 43.0)	0.00E+00	2.08E-13
RHR028A-P-NDUUM	2	3.00E-03 ( 32.0)	1.13E-13 ( 43.0)	0.00E+00	1.35E-13
RHR003B-P-UUM	2	3.00E-03 ( 32.0)	1.13E-13 ( 43.0)	0.00E+00	2.08E-13
RHR028B-P-NDUUM	2	3.00E-03 ( 32.0)	1.13E-13 ( 43.0)	0.00E+00	2.08E-13
C00G01P-P-UUM	2	3.00E-03 ( 32.0)	1.13E-13 ( 43.0)	0.00E+00	2.08E-13



LAK93BCP3-LFCC	2	2.90E-03 ( 41.0)	1.09E-13 ( 46.0)	0.00E+00	1.13E-13
LAK3BRCB-RCD-LFO	2	3.40E-03 ( 26.5)	1.04E-13 ( 47.5)	0.00E+00	3.14E-13
LAK3ARCA-RCD-LFO	2	3.40E-03 ( 26.5)	1.04E-13 ( 47.5)	0.00E+00	3.14E-13
NWY01CA-FMS-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
RHR01BB-BOO-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
RHR01AA-BOO-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
C2D01P-PMS-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
RHR48BB-V00-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
SEVY03CB-FMS-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
C0D01P-PMS-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
RHR48AA-V00-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
CSCF068B-VCC-CC	2	2.50E-03 ( 53.0)	9.42E-14 ( 53.0)	0.00E+00	1.05E-13
LAK93ACP3-LFCC	2	2.90E-03 ( 41.0)	8.83E-14 ( 60.5)	0.00E+00	1.34E-13
LAK9BCP3-LFOO	2	2.90E-03 ( 41.0)	8.83E-14 ( 60.5)	0.00E+00	2.18E-13
LAK9ACP3-LFOO	2	2.90E-03 ( 41.0)	8.83E-14 ( 60.5)	0.00E+00	2.18E-13
LAK18BCP1-LFOO	2	2.90E-03 ( 41.0)	8.83E-14 ( 60.5)	0.00E+00	2.18E-13
LAK18ACP1-LFOO	2	2.90E-03 ( 41.0)	8.83E-14 ( 60.5)	0.00E+00	2.18E-13
LAK10ACP9-LFOO	2	2.90E-03 ( 41.0)	8.83E-14 ( 60.5)	0.00E+00	2.18E-13
CSCF068A-VCC-CC	2	2.50E-03 ( 53.0)	7.61E-14 ( 64.0)	0.00E+00	1.42E-13
RA-MSLDV-1-2H	60	2.10E-03 ( 61.0)	5.51E-14 ( 65.0)	0.00E+00	2.59E-13
CSCD300A-PLG-LF	11	1.20E-03 ( 65.0)	5.24E-14 ( 66.0)	0.00E+00	1.37E-13
CSCD300B-PLG-LF	9	1.20E-03 ( 65.0)	5.23E-14 ( 67.0)	0.00E+00	1.37E-13
C0D01P-PMS-LF	5	1.10E-03 ( 69.0)	4.32E-14 ( 69.5)	0.00E+00	6.89E-14
RHR02BB-PMS-LF	5	1.10E-03 ( 69.0)	4.32E-14 ( 69.5)	0.00E+00	6.89E-14
RHR02AA-PMS-LF	5	1.10E-03 ( 69.0)	4.32E-14 ( 69.5)	0.00E+00	6.89E-14
C2D01P-PMS-LF	5	1.10E-03 ( 69.0)	4.32E-14 ( 69.5)	0.00E+00	6.89E-14
HACTCP2-FUS-LF	5	5.40E-04 ( 85.5)	4.07E-14 ( 72.5)	0.00E+00	3.77E-14
HACTCP1-FUS-LF	5	5.40E-04 ( 85.5)	4.07E-14 ( 72.5)	0.00E+00	3.77E-14
HACTK13CP5-LFEO	4	6.60E-04 ( 78.0)	4.02E-14 ( 74.0)	0.00E+00	1.62E-13
SEVY03AX-ACX-LF1	2	8.40E-04 ( 72.5)	3.17E-14 ( 75.5)	0.00E+00	2.88E-14
NWY01AX-ACX-LF1	2	8.40E-04 ( 72.5)	3.17E-14 ( 75.5)	0.00E+00	2.88E-14
EE-CSCD300A-PLG	5	7.20E-04 ( 74.0)	2.83E-14 ( 77.0)	0.00E+00	4.64E-14
C0D01F-PLG-LF	7	5.80E-04 ( 82.5)	2.28E-14 ( 78.0)	0.00E+00	3.22E-14
C2D01F-PLG-LF	5	5.80E-04 ( 82.5)	2.28E-14 ( 79.0)	0.00E+00	3.21E-14
SEVY03CB-FMS-LF	2	5.40E-04 ( 85.5)	2.04E-14 ( 80.5)	0.00E+00	5.19E-14
NWY01CA-FMS-LF	2	5.40E-04 ( 85.5)	2.04E-14 ( 80.5)	0.00E+00	5.19E-14
LAK3BRXCPI1-LFEO	2	6.60E-04 ( 78.0)	2.01E-14 ( 84.5)	0.00E+00	8.11E-14
LAK3ARXCPI1-LFEO	2	6.60E-04 ( 78.0)	2.01E-14 ( 84.5)	0.00E+00	8.11E-14
LAK28BXCPI4-LFEO	2	6.60E-04 ( 78.0)	2.01E-14 ( 84.5)	0.00E+00	8.11E-14
AP040X4CPI1-LFEO	2	6.60E-04 ( 78.0)	2.01E-14 ( 84.5)	0.00E+00	8.11E-14
AP037X4CPI1-LFEO	2	6.60E-04 ( 78.0)	2.01E-14 ( 84.5)	0.00E+00	8.11E-14
HCSF015C-VCC-LF	15	5.00E-04 ( 91.5)	8.49E-15 ( 88.5)	0.00E+00	2.93E-14
HCSF004C-VCC-LF	15	5.00E-04 ( 91.5)	8.49E-15 ( 88.5)	0.00E+00	2.93E-14
DPFALL-VENT-6H	14	2.10E-03 ( 61.0)	5.60E-15 ( 90.0)	0.00E+00	1.52E-14
RHR01BB-BOO-LF	3	5.00E-04 ( 91.5)	7.99E-16 ( 91.5)	0.00E+00	2.37E-15
RHR01AA-BOO-LF	3	5.00E-04 ( 91.5)	7.99E-16 ( 91.5)	0.00E+00	2.37E-15
CSCF068A-VCC-LF	1	5.00E-04 ( 91.5)	4.19E-16 ( 94.5)	0.00E+00	7.75E-16
RHR48BB-V00-LF	1	5.00E-04 ( 91.5)	4.19E-16 ( 94.5)	0.00E+00	7.75E-16
RHR48AA-V00-LF	1	5.00E-04 ( 91.5)	4.19E-16 ( 94.5)	0.00E+00	7.75E-16
CSCF068B-VCC-LF	1	5.00E-04 ( 91.5)	4.19E-16 ( 94.5)	0.00E+00	7.75E-16
RHR301BX-STR	3	1.10E-04 ( 100.5)	1.76E-16 ( 98.5)	0.00E+00	4.87E-16

PBR301AX-STR	3	1.10E-04 (100.5)	1.76E-16 ( 98.5)	0.00E+00	4.87E-16
NOFLOW-RHR-B1	3	1.00E+00 ( 6.0)	1.76E-16 ( 98.5)		
NOFLOW-RHR-A1	3	1.00E+00 ( 6.0)	1.76E-16 ( 98.5)		
HC001CB-BCO-LF	2	8.40E-05 (102.0)	1.33E-16 (101.0)	0.00E+00	2.52E-16
ACSD001X-STR	2	3.80E-05 (103.0)	6.94E-17 (102.0)	0.00E+00	1.80E-16
CONT-LEAK	258	7.50E-01 ( 12.0)	-3.56E-11 (103.0)	0.00E+00	0.00E+00

SEQUENCE T40

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		
				INCREASE	(RANK)	LOWER 5% UPPER 5%
SUR-007-R	86	2.90E-04	( 97.5)	1.65E-08	( 1.0)	0.00E+00 3.21E-08
SUR-009-R	95	2.90E-04	( 97.5)	1.64E-08	( 2.0)	0.00E+00 4.48E-08
SUR-008-R	32	2.90E-04	( 97.5)	4.48E-09	( 3.0)	0.00E+00 3.60E-09
SUR-029-R	45	2.90E-04	( 97.5)	3.60E-09	( 4.0)	0.00E+00 4.37E-09
RA-1-1-27H	86	2.10E-03	( 61.0)	2.51E-09	( 5.0)	0.00E+00 1.08E-09
RA-1-3-27H	96	2.60E-03	( 46.0)	2.35E-09	( 6.0)	0.00E+00 9.50E-09
RA-2-11-27H	16	1.60E-03	( 63.0)	2.65E-10	( 7.0)	0.00E+00 8.85E-10
HACTK3-ROO-LFO	63	2.00E-02	( 18.0)	2.40E-10	( 8.0)	0.00E+00 1.23E-09
HACTK9-ROO-LFO	63	2.00E-02	( 18.0)	2.38E-10	( 9.0)	0.00E+00 1.27E-09
HCS001C-PMS-LF	31	1.10E-03	( 69.0)	1.48E-10	( 10.0)	0.00E+00 6.70E-10
HCO1K14-ROO-LFO	7	1.20E-03	( 65.0)	1.14E-10	( 11.0)	0.00E+00 4.59E-10
HACTK3CP9-LFO	7	2.90E-03	( 41.0)	1.13E-10	( 12.0)	0.00E+00 4.59E-10
HCS001C-PMS-CS	9	2.50E-03	( 53.0)	1.01E-10	( 13.0)	0.00E+00 4.56E-10
HCS001C-P-UUM	9	3.00E-03	( 32.0)	1.01E-10	( 14.0)	0.00E+00 4.55E-10
HCSF015C-VCC-CS	7	2.50E-03	( 53.0)	9.91E-11	( 15.5)	0.00E+00 4.31E-10
HCSF004C-VCC-CS	7	2.50E-03	( 53.0)	9.91E-11	( 15.5)	0.00E+00 4.31E-10
HACTK9CP7-LFO	5	2.90E-03	( 41.0)	9.90E-11	( 17.0)	0.00E+00 4.33E-10
HACTKPF2-FUS-LF	5	5.40E-04	( 85.5)	7.54E-11	( 18.5)	0.00E+00 1.66E-10
HACTCPF1-FUS-LF	5	5.40E-04	( 85.5)	6.09E-11	( 20.0)	0.00E+00 2.80E-10
HACTK13CP5-LFCC	4	6.60E-04	( 78.0)	5.01E-11	( 21.0)	0.00E+00 2.30E-10
LAK93ARC-ROO-LFO	16	2.00E-02	( 18.0)	5.00E-11	( 22.0)	0.00E+00 2.29E-10
LAK938RC-ROO-LFO	12	2.00E-02	( 18.0)	4.43E-11	( 24.0)	0.00E+00 2.58E-10
LAK9ARCA-ROO-LFO	13	2.00E-02	( 18.0)	4.43E-11	( 24.0)	0.00E+00 2.58E-10
LAK18ARA-ROO-LFO	13	2.00E-02	( 18.0)	4.43E-11	( 24.0)	0.00E+00 2.58E-10
LAK10RCA-ROO-LFO	13	2.00E-02	( 18.0)	4.42E-11	( 26.0)	0.00E+00 2.57E-10
LAK188RB-ROO-LFO	11	2.00E-02	( 18.0)	4.37E-11	( 27.0)	0.00E+00 2.54E-10
LAK98RCB-ROO-LFO	10	2.00E-02	( 18.0)	4.36E-11	( 28.0)	0.00E+00 2.38E-10
CSCD300A-PLG-LF	11	1.20E-03	( 65.0)	4.35E-11	( 29.0)	0.00E+00 2.37E-10
CSCD300B-PLG-LF	9	1.20E-03	( 65.0)	3.94E-11	( 30.0)	0.00E+00 1.13E-10
CODG01F-PLG-LF	7	5.80E-04	( 82.5)	3.93E-11	( 31.0)	0.00E+00 1.13E-10
C2D0G01F-PLG-LF	5	5.80E-04	( 82.5)	3.93E-11	( 32.0)	0.00E+00 1.13E-10
EE-CSCD300A-PLG	5	7.20E-04	( 74.0)	3.93E-11	( 34.5)	0.00E+00 1.13E-10
CODG01P-PMS-LF	5	1.10E-03	( 69.0)	3.93E-11	( 34.5)	0.00E+00 1.13E-10
C2D0G01P-PMS-LF	5	1.10E-03	( 69.0)	3.93E-11	( 34.5)	0.00E+00 1.13E-10
RHRC02BB-PMS-LF	5	1.10E-03	( 69.0)	3.93E-11	( 34.5)	0.00E+00 1.13E-10
RHRC02AA-PMS-LF	5	1.10E-03	( 69.0)	3.93E-11	( 34.5)	0.00E+00 1.13E-10
RHRH01AX-RTX-LFB	5	6.20E-03	( 24.5)	3.91E-11	( 37.5)	0.00E+00 1.13E-10
RHRH01BX-RTX-LFB	5	6.20E-03	( 24.5)	3.91E-11	( 37.5)	0.00E+00 1.13E-10
LAK146RC-RCC-LFO	5	2.00E-02	( 18.0)	3.86E-11	( 39.5)	0.00E+00 1.47E-10
LAK14ARC-RCC-LFO	5	2.00E-02	( 18.0)	3.86E-11	( 39.5)	0.00E+00 1.47E-10
LESC002A-P-UUM	3	3.00E-03	( 32.0)	3.84E-11	( 42.0)	0.00E+00 1.10E-10
RHRC02BB-P-UUM	3	3.00E-03	( 32.0)	3.84E-11	( 42.0)	0.00E+00 1.10E-10
RHRC02AA-P-UUM	3	3.00E-03	( 32.0)	3.84E-11	( 42.0)	0.00E+00 1.10E-10
SEVY03CB-FMS-LF	2	5.40E-04	( 85.5)	3.77E-11	( 44.5)	0.00E+00 8.28E-11
NWVY01CA-FMS-LF	2	5.40E-04	( 85.5)	3.77E-11	( 44.5)	0.00E+00 8.28E-11

SEVY03AX-ACK-LFI	2	8.40E-04	( 72.5)	3.77E-11	( 46.5)	0.00E+00	8.28E-11
WVY01AX-ACK-LFI	2	8.40E-04	( 72.5)	3.77E-11	( 46.5)	0.00E+00	8.28E-11
SEVY03CB-FMS-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
COOG01P-FMS-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
RHRF48BB-V00-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
RHRF48AA-V00-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
RHRB01BB-B00-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
CZDG01P-PMS-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
RHRB01AA-B00-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
WVY01CA-FMS-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
CSCF068B-VCC-CC	2	2.50E-03	( 53.0)	3.76E-11	( 52.0)	0.00E+00	8.26E-11
LAK93BCP3-LFCC	2	2.90E-03	( 41.0)	3.76E-11	( 57.0)	0.00E+00	8.28E-11
RHRG02BB-P-NUUM	2	3.00E-03	( 32.0)	3.76E-11	( 60.0)	0.00E+00	8.27E-11
RHRG02AA-P-NUUM	2	3.00E-03	( 32.0)	3.76E-11	( 60.0)	0.00E+00	8.27E-11
RHRG003B-P-UUM	2	3.00E-03	( 32.0)	3.76E-11	( 60.0)	0.00E+00	8.27E-11
COOG01P-P-UUM	2	3.00E-03	( 32.0)	3.76E-11	( 60.0)	0.00E+00	8.27E-11
CZDG01P-P-UUM	2	3.00E-03	( 32.0)	3.76E-11	( 60.0)	0.00E+00	8.27E-11
LAK3BRXCP1-LFCO	2	6.60E-04	( 78.0)	3.04E-11	( 65.5)	0.00E+00	1.44E-10
LAK3ARCXCP1-LFCO	2	6.60E-04	( 78.0)	3.04E-11	( 65.5)	0.00E+00	1.44E-10
LAK28BXCPC4-LFCO	2	6.60E-04	( 78.0)	3.04E-11	( 65.5)	0.00E+00	1.44E-10
LAK28ACXCP4-LFCO	2	6.60E-04	( 78.0)	3.04E-11	( 65.5)	0.00E+00	1.44E-10
AP040X4CP1-LFCO	2	6.60E-04	( 78.0)	3.04E-11	( 65.5)	0.00E+00	1.44E-10
AP037X4CP1-LFCO	2	6.60E-04	( 78.0)	3.04E-11	( 65.5)	0.00E+00	1.44E-10
CSCF068A-VCC-CC	2	2.50E-03	( 53.0)	3.04E-11	( 69.0)	0.06E+00	3.78E-11
LAK93ACP3-LFCC	2	2.90E-03	( 41.0)	3.04E-11	( 72.5)	0.00E+00	8.77E-11
LAK98CP3-LFCO	2	2.90E-03	( 41.0)	3.04E-11	( 72.5)	0.00E+00	1.44E-10
LAK9ACP3-LFCO	2	2.90E-03	( 41.0)	3.04E-11	( 72.5)	0.00E+00	1.44E-10
LAK18BCP1-LFCO	2	2.90E-03	( 41.0)	3.34E-11	( 72.5)	0.00E+00	1.44E-10
LAK18ACP1-LFCO	2	2.90E-03	( 41.0)	3.04E-11	( 72.5)	0.00E+00	1.44E-10
LAK10ACP9-LFCO	2	2.90E-03	( 41.0)	3.04E-11	( 72.5)	0.00E+00	1.44E-10
LAK3BRCB-RCO-LFO	2	3.40E-03	( 26.5)	3.03E-11	( 76.5)	0.00E+00	1.44E-10
LAK3ARCA-RCO-LFO	2	3.40E-03	( 26.5)	3.03E-11	( 76.5)	0.00E+00	1.44E-10
RA-MSLDV-1-2H	60	2.10E-03	( 61.0)	2.62E-11	( 78.0)	0.00E+00	1.98E-10
HCSF015C-VCC-LF	15	5.00E-04	( 91.5)	1.70E-11	( 79.5)	0.00E+00	9.06E-11
HCSF004C-VCC-LF	15	5.00E-04	( 91.5)	1.70E-11	( 79.5)	0.00E+00	9.06E-11
OPTAIL-VENT-6H	14	2.10E-03	( 61.0)	2.66E-12	( 81.0)	0.00E+00	8.51E-12
HCS0001X-STR	2	3.80E-05	( 103.0)	1.83E-12	( 82.0)	0.00E+00	7.65E-12
HC001CB-BCC-LF	2	8.40E-05	( 102.0)	1.83E-12	( 83.0)	0.00E+00	7.65E-12
RHR301BX-STR	3	1.10E-04	( 100.5)	1.60E-12	( 84.5)	0.00E+00	1.05E-11
RHR301AX-STR	3	1.10E-04	( 100.5)	1.40E-12	( 84.5)	0.00E+00	1.05E-11
RHRB01BB-B00-LF	3	5.00E-04	( 91.5)	1.60E-12	( 86.5)	0.00E+00	1.05E-11
RHRB01AA-B00-LF	3	5.00E-04	( 91.5)	1.60E-12	( 86.5)	0.00E+00	1.05E-11
CSCF068A-VCC-LF	1	5.00E-04	( 91.5)	8.37E-13	( 89.5)	0.00E+00	2.63E-12
RHRF48BB-V00-LF	1	5.00E-04	( 91.5)	8.37E-13	( 89.5)	0.00E+00	2.63E-12
RHRF48AA-V00-LF	1	5.00E-04	( 91.5)	8.37E-13	( 89.5)	0.00E+00	2.63E-12
CSCF068B-VCC-LF	1	5.00E-04	( 91.5)	8.37E-13	( 89.5)	0.00E+00	2.63E-12
NOFLOW-CSS-87A	5	1.00E+00	( 6.0)	0.00E+00	( 97.0)	0.00E+00	0.00E+00
NOFLOW-CSS-A7A	5	1.00E+00	( 6.0)	0.00E+00	( 97.0)	0.00E+00	0.00E+00
SCSF068B-DENER	3	1.00E+00	( 6.0)	0.00E+00	( 97.0)	0.00E+00	0.00E+00
SCSF068A-DENER	3	1.00E+00	( 6.0)	0.00E+00	( 97.0)	0.00E+00	0.00E+00
FLOW-RHR-B3	17	1.00E+00	( 6.0)	0.00E+00	( 97.0)	0.00E+00	0.00E+00
FLOW-RHR-A3	21	1.00E+00	( 6.0)	0.00E+00	( 97.0)	0.00E+00	0.00E+00

EE-CST-LVL	24	1.00E+07	3.0)	0.00E+00	( 97.0)
NOFLOW-SPC-B5X	5	1.00E+00	( 6.0)	0.00E+00	( 97.0)
NOFLOW-SPC-A5X	5	1.00E+00	( 6.0)	0.00E+00	( 97.0)
NOFLOW-RHR-B1	3	1.00E+00	( 6.0)	0.00E+00	( 97.0)
NOFLOW-RHR-A1	3	1.00E+00	( 6.0)	0.00E+00	( 97.0)
CONT-LEAK	258	7.50E-01	( 12.0)	-1.19E-11	(103.0)
				-3.28E-11	0.00E+00

SEQUENCE T40  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
CON7-LEAK	25B	7.50E-01 ( 12.0)	39.4	( 1.0)	NA	0.25
RHR801AA-BOO-LF	3	5.00E-04 ( 91.5)	6.5	( 2.5)	NA	1.00
RHR801BB-BOO-LF	3	5.00E-04 ( 91.5)	6.5	( 2.5)	NA	1.00
HC01K14-ROO-LFO	7	1.20E-03 ( 65.0)	6.4	( 4.0)	NA	0.99
LAK3ARCA-RCO-LFO	2	3.40E-03 ( 26.5)	6.1	( 5.5)	NA	0.98
LAK3BRCB-RCO-LFO	2	3.40E-03 ( 26.5)	6.1	( 5.5)	NA	0.98
LAK18BRB-ROO-LFO	11	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK93BRC-ROO-LFO	12	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK10RCA-ROO-LFO	13	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
HACTK9-ROO-LFO	63	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
HACTK3-ROO-LFO	63	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK93ARC-ROO-LFO	16	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK9BRCB-ROO-LFO	10	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK14BRC-RCO-LFO	5	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK18ARA-ROO-LFO	13	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK14ARC-RCO-LFO	5	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK9ARCA-ROO-LFO	13	2.00E-02 ( 18.0)	6.0	( 12.0)	NA	2.81
LAK28BXC4-LFCO	2	6.60E-04 ( 78.0)	2.8	( 21.0)	NA	0.98
LAK3BRXC4-LFCO	2	6.60E-04 ( 78.0)	2.8	( 21.0)	NA	0.98
LAK28ACX4-LFCO	2	6.60E-04 ( 78.0)	2.8	( 21.0)	NA	0.98
HACTK13CP5-LFCO	4	6.60E-04 ( 78.0)	2.8	( 21.0)	NA	0.98
LAK3ARXC4-LFCO	2	6.60E-04 ( 78.0)	2.8	( 21.0)	NA	0.98
AP040X4CP1-LFCO	2	6.60E-04 ( 78.0)	2.8	( 21.0)	NA	0.98
AP037X4CP1-LFCO	2	6.60E-04 ( 78.0)	2.8	( 21.0)	NA	0.98
HC001CB-BCO-LF	2	8.40E-05 (102.0)	2.7	( 25.0)	NA	1.00
NWVY01CA-FMS-LF	2	5.40E-04 ( 85.5)	2.1	( 26.5)	NA	1.00
SEVY03CB-FMS-LF	2	5.40E-04 ( 85.5)	2.1	( 26.5)	NA	1.00
HCSD0C1X-STR	2	3.80E-05 (103.0)	1.9	( 28.0)	NA	1.00
SEVY03AX-ACX-LF1	2	8.40E-04 ( 72.5)	1.8	( 29.5)	NA	1.00
NWVY01AX-ACX-LF1	2	8.40E-04 ( 72.5)	1.8	( 29.5)	NA	1.00
RA-1-3-27H	96	2.60E-03 ( 46.0)	1.1	( 31.0)	NA	1.65
RHR301BX-STR	3	1.10E-04 (100.5)	1.0	( 32.5)	NA	1.00
RHR301AX-STR	3	1.10E-04 (100.5)	1.0	( 32.5)	NA	1.00
SUR-029-R	45	2.90E-04 ( 97.5)	0.0	( 35.5)		
SUR-007-R	86	2.90E-04 ( 97.5)	0.0	( 35.5)		
SUR-009-R	95	2.90E-04 ( 97.5)	0.0	( 35.5)		
SUR-008-R	32	2.90E-04 ( 97.5)	0.0	( 35.5)		
C2DG01F-PLG-LF	5	5.80E-04 ( 82.5)	0.0	( 65.0)		
LCSC002A-P-UJM	3	3.00E-03 ( 32.0)	0.0	( 65.0)		
LAK9BCP3-LFOO	2	2.90E-03 ( 41.0)	0.0	( 65.0)		
LAK9ACP3-LFOO	2	2.90E-03 ( 41.0)	0.0	( 65.0)		
HACTK9CP7-LFOO	7	2.90E-03 ( 41.0)	0.0	( 65.0)		
CSCF068A-VCC-CC	2	2.50E-03 ( 53.0)	0.0	( 65.0)		
LAK93BCP3-LFCC	2	2.90E-03 ( 41.0)	0.0	( 65.0)		
HACTK3CP9-LFOO	7	2.90E-03 ( 41.0)	0.0	( 65.0)		

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CSCD300B-PLG-LF	9	1.20E-03	( 65.0)	0.0	( 65.0)
SEVY03CB-FMS-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
CSCD300A-PLG-LF	11	1.20E-03	( 65.0)	0.0	( 65.0)
CODG01P-PMS-LF	5	1.10E-03	( 69.0)	0.0	( 65.0)
CODG01F-PLG-LF	7	5.80E-04	( 82.5)	0.0	( 65.0)
RHRH01BX-HTX-LFB	5	6.20E-03	( 24.5)	0.0	( 65.0)
LAK93ACP3-LFCC	2	2.90E-03	( 41.0)	0.0	( 65.0)
HACTCPF2-FUS-LF	5	5.40E-04	( 85.5)	0.0	( 65.0)
RHRH01AX-HTX-LFB	5	6.20E-03	( 24.5)	0.0	( 65.0)
RHRF48BB-V00-LF	1	5.00E-04	( 91.5)	0.0	( 65.0)
LAK18BCP1-LFOO	2	2.90E-03	( 41.0)	0.0	( 65.0)
RHRF48AA-V00-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
RHRC02BB-PMS-LF	5	1.10E-03	( 69.0)	0.0	( 65.0)
HACTCPF1-FUS-LF	5	5.40E-04	( 85.5)	0.0	( 65.0)
LAK18ACP1-LFOO	2	2.90E-03	( 41.0)	0.0	( 65.0)
HCSC001C-P-UUM	9	3.00E-03	( 32.0)	0.0	( 65.0)
CSCF068A-VCC-LF	1	5.00E-04	( 91.5)	0.0	( 65.0)
RHRC02AA-P-UUM	3	3.00E-03	( 32.0)	0.0	( 65.0)
CODG01P-PMS-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
RHRC02AA-P-NDUUM	2	3.00E-03	( 32.0)	0.0	( 65.0)
RHRC003B-P-UUM	2	3.00E-03	( 32.0)	0.0	( 65.0)
RHRB01BB-B00-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
C2DG01P-PMS-LF	5	1.10E-03	( 69.0)	0.0	( 65.0)
LAK10ACP9-LFOO	2	2.90E-03	( 41.0)	0.0	( 65.0)
HCSF015C-VCC-LF	15	5.00E-04	( 91.5)	0.0	( 65.0)
C2DG01P-PMS-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
RA-MSLDV-1-2H	60	2.10E-03	( 61.0)	0.0	( 65.0)
RA-2-11-27H	16	1.60E-03	( 63.0)	0.0	( 65.0)
HCSF015C-VCC-CS	7	2.50E-03	( 53.0)	0.0	( 65.0)
RA-1-1-27H	86	2.10E-03	( 61.0)	0.0	( 65.0)
HCSF004C-VCC-LF	15	5.00E-04	( 91.5)	0.0	( 65.0)
RHRB01AA-B00-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
EE-CSCD300A-PLG	5	7.20E-04	( 74.0)	0.0	( 65.0)
OPFAIL-VENT-6H	14	2.10E-03	( 61.0)	0.0	( 65.0)
HCSF004C-VCC-CS	7	2.50E-03	( 53.0)	0.0	( 65.0)
NWVY01CA-FMS-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
CSCF068B-VCC-LF	1	5.00E-04	( 91.5)	0.0	( 65.0)
CODG01P-P-UUM	2	3.00E-03	( 32.0)	0.0	( 65.0)
RHRC02AA-PMS-LF	5	1.10E-03	( 69.0)	0.0	( 65.0)
RHRC02BB-P-NDUUM	2	3.00E-03	( 32.0)	0.0	( 65.0)
RHRC02BB-P-UUM	3	3.00E-03	( 32.0)	0.0	( 65.0)
HCSC001C-PMS-LF	31	1.10E-03	( 69.0)	0.0	( 65.0)
CSCF068B-VCC-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
RHRF48AA-V00-LF	1	5.00E-04	( 91.5)	0.0	( 65.0)
RHRF48BB-V00-CC	2	2.50E-03	( 53.0)	0.0	( 65.0)
HCSC001C-PMS-CS	9	2.50E-03	( 53.0)	0.0	( 65.0)
C2DG01P-P-UUM	2	3.00E-03	( 32.0)	0.0	( 65.0)
NOFLOW-CSS-B7A	5	1.00E+00	( 6.0)		
NOFLOW-CSS-A7A	5	1.00E+00	( 6.0)		
SCSF068B-DENER	3	1.00E+00	( 6.0)		
SCSF06AA-DENER	3	1.00E+00	( 6.0)		
FLOW-RHR-83	17	1.00E+00	( 6.0)		

FLOW-RHR-A3	21	1.00E+00	(	6.0)
EE-CST-LVL	24	1.00E+00	(	6.0)
NOFLOW-SPC-B5X	5	1.00E+00	(	6.0)
NOFLOW-SPC-A5X	5	1.00E+00	(	6.0)
NOFLOW-RHR-B1	3	1.00E+00	(	6.0)
NOFLOW-RHR-A1	3	1.00E+00	(	6.0)



SEQUENCE T40

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-T-SEQ3BB WITH TOP EVENT FREQUENCY 1.19E-11

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	2	8	3.77E-13	0.03176	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LAK14ARC-ROO-LFO *
3					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-008-R *
4	6	7	3.77E-13	0.06352	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* 1E-T101 *
5					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-007-R	+
6	8	7	3.77E-13	0.09528	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* 1E-T101 *
7					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-007-R	+
8	4	7	3.77E-13	0.12704	/CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	* 1E-T102 *
9					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-009-R	+
10	7	8	3.77E-13	0.15880	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* LAK14BRC-ROO-LFO *
11					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-007-R *
12	1	8	3.77E-13	0.19056	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK14ARC-ROO-LFO *
13					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-008-R *
14	5	7	3.77E-13	0.22232	/CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	* 1E-T102 *
15					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-009-R	+
16	3	8	3.77E-13	0.25407	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* LAK14BRC-ROO-LFO *
17					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-007-R *
18	10	6	3.04E-13	0.27973	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* LAK18BRB-ROO-LFO *
19					RA-1-1-27H	* SUR-007-R	+	
20	16	6	3.04E-13	0.30538	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* LAK18BRB-ROO-LFO *
21					RA-1-1-27H	* SUR-007-R	+	
22	18	6	3.04E-13	0.33103	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK10RCA-ROO-LFO *
23					RA-1-1-27H	* SUR-009-R	+	
24	15	6	3.04E-13	0.35668	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LAK9ARCA-ROO-LFO *
25					RA-1-1-27H	* SUR-009-R	+	
26	14	6	3.04E-13	0.38233	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* LAK9BRCB-ROO-LFO *
27					RA-1-1-27H	* SUR-007-R	+	
28	13	6	3.04E-13	0.40799	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK9ARCA-ROO-LFO *
29					RA-1-1-27H	* SUR-009-R	+	
30	12	6	3.04E-13	0.43364	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LAK18ARA-ROO-LFO *
31					RA-1-1-27H	* SUR-009-R	+	
32	17	6	3.04E-13	0.45929	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* LAK9BRCB-ROO-LFO *
33					RA-1-1-27H	* SUR-007-R	+	
34	9	6	3.04E-13	0.48494	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LAK10RCA-ROO-LFO *
35					RA-1-1-27H	* SUR-009-R	+	
36	11	6	3.04E-13	0.51059	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK18ARA-ROO-LFO *
37					RA-1-1-27H	* SUR-009-R	+	
38	21	6	1.17E-13	0.52044	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* RA-1-3-27H *
39					RHRH01AX-HTX-LFB	* SUR-009-R	+	
40	19	6	1.17E-13	0.53028	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* RA-1-3-27H *
41					RHRH01BX-HTX-LFB	* SUR-007-R	+	
42	20	6	1.17E-13	0.54013	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* RA-1-3-27H *
43					RHRH01AX-HTX-LFB	* SUR-009-R	+	
44	22	6	1.17E-13	0.54997	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* RA-1-3-27H *
45					RHRH01BX-HTX-LFB	* SUR-007-R	+	

46	50	7	5.65E-14	0.55474	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* RA-1-3-27H	*
47					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-008-R	*	*
48	49	7	5.65E-14	0.55570	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
49					RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-007-R	*	*
50	46	7	5.65E-14	0.56427	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
51					RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-007-R	*	*
52	29	6	5.35E-14	0.56903	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
53					RHRC003B-P-UUM	* SUR-029-R	+	*	*
54	47	6	5.35E-14	0.57379	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
55					RHRC02BB-P-NDUUM	* SUR-007-R	+	*	*
56	44	6	5.65E-14	0.57856	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* RA-1-3-27H	*
57					RHRC02AA-P-NDUUM	* SUR-008-R	+	*	*
58	51	7	5.65E-14	0.58332	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* RA-1-3-27H	*
59					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-008-R	+	*
60	45	6	5.65E-14	0.58809	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
61					RHRC02BB-P-NDUUM	* SUR-007-R	+	*	*
62	48	6	5.65E-14	0.59285	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* RA-1-3-27H	*
63					RHRC02AA-P-NDUUM	* SUR-008-R	+	*	*
64	30	6	5.65E-14	0.59761	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
65					RHRC003B-P-UUM	* SUR-029-R	+	*	*
66	7	6	5.65E-14	0.60238	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LCSC002A-P-UUM	*
67					RA-1-3-27H	* SUR-029-R	+	*	*
68	26	6	5.65E-14	0.60714	C0D001P-P-UUM	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	*
69					RA-1-3-27H	* SUR-029-R	+	*	*
70	25	6	5.65E-14	0.61190	C2D001P-P-UUM	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	*
71					RA-1-3-27H	* SUR-029-R	+	*	*
72	24	6	5.65E-14	0.61667	C2D001P-P-UUM	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	*
73					RA-1-3-27H	* SUR-029-R	+	*	*
74	27	6	5.65E-14	0.62143	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LCSC002A-P-UUM	*
75					RA-1-3-27H	* SUR-029-R	+	*	*
76	23	6	5.65E-14	0.62620	C0D001P-P-UUM	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	*
77					RA-1-3-27H	* SUR-029-R	+	*	*
78	43	7	5.47E-14	0.63080	/CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	* 1E-T102	*
79					LAK93ACP3-LFCC	* RA-1-3-27H	* SUR-009-R	+	*
80	41	7	5.47E-14	0.63541	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* 1E-T101	*
81					LAK93BCP3-LFCC	* RA-1-3-27H	* SUR-007-R	+	*
82	42	7	5.47E-14	0.64001	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* 1E-T101	*
83					LAK93BCP3-LFCC	* RA-1-3-27H	* SUR-007-R	+	*
84	40	7	5.47E-14	0.64462	/CONT-LEAK	* FLOW-RHR-A3	* HACTK3CP9-LFO0	* 1E-T102	*
85					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-009-R	+	*
86	39	7	5.47E-14	0.64922	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3CP9-LFO0	* 1E-T101	*
87					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-007-R	+	*
88	53	6	5.18E-14	0.65358	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK3ARCA-ROO-LFO	*
89					RA-1-1-27H	* SUR-009-R	+	*	*
90	31	6	5.18E-14	0.65794	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* LAK3BRCB-ROO-LFO	*
91					RA-1-1-27H	* SUR-029-R	+	*	*
92	52	6	5.18E-14	0.66230	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LAK3ARCA-ROO-LFO	*
93					RA-1-1-27H	* SUR-009-R	+	*	*
94	32	6	5.18E-14	0.66667	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* LAK3BRCB-ROO-LFO	*
95					RA-1-1-27H	* SUR-029-R	+	*	*
96	62	6	4.71E-14	0.67064	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
97					RHR01BB-BOO-CC	* SUR-007-R	+	*	*

98	60	6	4.71E-14	0.67461	/CONT-LEAK	HACTK3-R00-LFO	IE-T102	RA-1-3-27H	*
99	58	6	4.71E-14	0.67858	RHR01AA-B00-CC	SUR-008-R	IE-T102	NWY01CA-FMS-CC	*
100	101	6	4.71E-14	0.68255	/CONT-LEAK	HACTK3-R00-LFO	IE-T102		*
102	102	6	4.71E-14	0.68651	RA-1-3-27H	SUR-008-R	HACTK9-R00-LFO	IE-T102	*
103	103	6	4.71E-14	0.69048	C00G01P-PMS-CC	/CONT-LEAK	IE-T102	NWY01CA-FMS-CC	*
104	104	6	4.71E-14	0.69445	RA-1-3-27H	SUR-029-R	HACTK3-R00-LFO	IE-T102	*
105	105	6	4.71E-14	0.69842	/CONT-LEAK	SUR-008-R	HACTK3-R00-LFO	IE-T102	*
106	106	6	4.71E-14	0.70239	/CONT-LEAK	CSCF068A-VCC-CC	HACTK3-R00-LFO	IE-T102	*
107	107	6	4.71E-14	0.70636	RA-1-3-27H	SUR-009-R	HACTK3-R00-LFO	IE-T102	*
108	108	6	4.71E-14	0.71033	/CONT-LEAK	CSCF068B-VCC-CC	HACTK3-R00-LFO	IE-T102	*
109	109	6	4.71E-14	0.71430	RA-1-3-27H	SUR-007-R	HACTK9-R00-LFO	IE-T102	*
110	110	6	4.71E-14	0.71827	/CONT-LEAK	SUR-007-R	HACTK3-R00-LFO	IE-T102	*
111	111	7	4.71E-14	0.72224	/CONT-LEAK	FLOW-RHR-A3	SUR-009-R	RA-1-3-27H	*
112	112	6	4.71E-14	0.72621	/CONT-LEAK	RHRF48AA-V00-CC	IE-T101	RA-1-3-27H	*
113	113	6	4.71E-14	0.73018	RA-1-3-27H	RHRF48BB-V00-CC	HACTK3-R00-LFO	RA-1-3-27H	*
114	114	6	4.71E-14	0.73415	/CONT-LEAK	/CONT-LEAK	IE-T102		*
115	115	6	4.71E-14	0.73812	SEVY03CB-FMS-CC	SUR-029-R	HACTK9-R00-LFO	RA-1-3-27H	*
116	116	6	4.71E-14	0.74209	/CONT-LEAK	/CONT-LEAK	IE-T101	RA-1-3-27H	*
117	117	6	4.71E-14	0.74594	RHR01AA-R00-CC	SUR-008-R	HACTK9-R00-LFO	RA-1-3-27H	*
118	118	6	4.71E-14	0.74979	/CONT-LEAK	HACTK9-R00-LFO	HACTK3-R00-LFO	RA-1-3-27H	*
119	119	6	4.71E-14	0.75364	SEVY03CB-FMS-CC	SUR-029-R	HACTK3-R00-LFO	IE-T101	*
120	120	6	4.71E-14	0.75748	C20G01P-PMS-CC	/CONT-LEAK	HACTK9-R00-LFO	IE-T101	*
121	121	6	4.71E-14	0.76133	RA-1-3-27H	SUR-029-R	HACTK9-R00-LFO	IE-T101	*
122	122	6	4.71E-14	0.76505	RA-1-3-27H	SUR-029-R	HACTK9-R00-LFO	IE-T101	*
123	123	7	4.71E-14	0.76877	/CONT-LEAK	FLOW-RHR-B3	HACTK9-R00-LFO	IE-T101	*
124	124	6	4.71E-14	0.77249	RA-1-3-27H	RHRF48BB-V00-CC	SUR-007-R	IE-T102	*
125	125	6	4.71E-14	0.77621	/CONT-LEAK	/CONT-LEAK	IE-T102		*
126	126	6	4.71E-14	0.77994	C00G01P-PMS-CC	SUR-029-R	IE-T101	RA-1-3-27H	*
127	127	6	4.71E-14	0.78364	RA-1-3-27H	HACTK9-R00-LFO	HACTK9-R00-LFO	IE-T102	*
128	128	6	4.71E-14	0.78736	/CONT-LEAK	SUR-007-R	HACTK9-R00-LFO	IE-T102	*
129	129	6	4.71E-14	0.79108	RHR01BB-R00-CC	FLOW-RHR-A3	HACTK9-R00-LFO	IE-T102	*
130	130	7	4.71E-14	0.79479	/CONT-LEAK	RHRF48AA-V00-CC	SUR-009-R	IE-T102	*
131	131	6	4.71E-14	0.79850	RA-1-3-27H	FLOW-RHR-B3	SUR-009-R	IE-T101	*
132	132	7	4.71E-14	0.80221	/CONT-LEAK	FLOW-RHR-B3	HACTK3-R00-LFO	IE-T101	*
133	133	6	4.71E-14	0.80594	RA-1-3-27H	RHRF48BB-V00-CC	SUR-007-R	LAK10PCA-R00-LFO	*
134	134	6	4.57E-14	0.80964	/CONT-LEAK	HCS001C-P-UUM	IE-T102	LAK10PCA-R00-LFO	*
135	135	6	4.57E-14	0.81336	RA-1-1-27H	SUR-009-R	IE-T102	LAK10PCA-R00-LFO	*
136	136	6	4.57E-14	0.81708	/CONT-LEAK	HCS001C-P-UUM	IE-T102	LAK10PCA-R00-LFO	*
137	137	6	4.57E-14	0.82079	RA-1-1-27H	SUR-009-R	IE-T101	LAK10PCA-R00-LFO	*
138	138	6	4.57E-14	0.82450	/CONT-LEAK	HCS001C-P-UUM	IE-T101	LAK10PCA-R00-LFO	*
139	139	6	4.57E-14	0.82821	RA-1-1-27H	SUR-007-R	IE-T101	LAK10PCA-R00-LFO	*
140	140	6	4.57E-14	0.83192	/CONT-LEAK	HCS001C-P-UUM	IE-T101	LAK10PCA-R00-LFO	*
141	141	6	4.57E-14	0.83563	RA-1-1-27H	SUR-007-R	IE-T102	LAK10PCA-R00-LFO	*
142	142	6	4.57E-14	0.83934	/CONT-LEAK	HCS001C-P-UUM	IE-T102	LAK10PCA-R00-LFO	*
143	143	6	4.42E-14	0.84305	RA-1-1-27H	SUR-009-R	IE-T101	LAK10PCA-R00-LFO	*
144	144	6	4.42E-14	0.84676	/CONT-LEAK	HACTK9-R00-LFO	IE-T101	LAK10PCA-R00-LFO	*
145	145	6	4.42E-14	0.85047	RA-1-1-27H	SUR-007-R	IE-T102	LAK10PCA-R00-LFO	*
146	146	6	4.42E-14	0.85418	/CONT-LEAK	HACTK3-R00-LFO	IE-T102	LAK10PCA-R00-LFO	*
147	147	6	4.42E-14	0.85789	RA-1-1-27H	SUR-009-R	IE-T102	LAK10PCA-R00-LFO	*
148	148	6	4.42E-14	0.86160	/CONT-LEAK	HACTK9-R00-LFO	IE-T101	LAK10PCA-R00-LFO	*
149	149	6	4.42E-14	0.86531	RA-1-1-27H	SUR-007-R	IE-T101	LAK10PCA-R00-LFO	*

150	84	6	4.42E-14	0.77621	/CONT-LEAK	HACTK9-R00-LFO	1E-T102	LAK18ACP1-LFO0	*
151					RA-1-1-27H	SUR-009-R			*
152	90	6	4.42E-14	0.77993	/CONT-LEAK	HACTK3-R00-LFO	1E-T101	LAK18BAPT1-LFO0	*
153					RA-1-1-27H	SUR-007-R			*
154	83	6	4.42E-14	0.78365	/CONT-LEAK	HACTK9-R00-LFO	1E-T102	LAK10ACP9-LFO0	*
155					RA-1-1-27H	SUR-009-R			*
156	82	6	4.42E-14	0.78737	/CONT-LEAK	HACTK3-R00-LFO	1E-T101	LAK98CP3-LFO0	*
157					RA-1-1-27H	SUR-007-R			*
158	85	6	4.42E-14	0.79109	/CONT-LEAK	HACTK9-R00-LFO	1E-T102	LAK9ACP3-LFO0	*
159					RA-1-1-27H	SUR-009-R			*
160	87	6	4.42E-14	0.79481	/CONT-LEAK	HACTK3-R00-LFO	1E-T102	LAK18ACP1-LFO0	*
161					RA-1-1-27H	SUR-009-R			*
162	86	6	4.42E-14	0.79853	/CONT-LEAK	HACTK3-R00-LFO	1E-T102	LAK10ACP9-LFO0	*
163					RA-1-1-27H	SUR-009-R			*
164	81	6	4.42E-14	0.80225	/CONT-LEAK	HACTK9CP7-LFO0	1E-T102	LAK9ARCA-R00-LFO	*
165					RA-1-1-27H	SUR-009-R			*
166	80	6	4.42E-14	0.80597	/CONT-LEAK	HACTK9CP7-LFO0	1E-T102	LAK18ARA-R00-LFO	*
167					RA-1-1-27H	SUR-009-R			*
168	79	6	4.42E-14	0.80969	/CONT-LEAK	HACTK3CP9-LFO0	1E-T101	LAK98PCB-R00-LFO	*
169					RA-1-1-27H	SUR-007-R			*
170	77	6	4.42E-14	0.81341	/CONT-LEAK	HACTK9CP7-LFO0	1E-T102	LAK10RCA-R00-LFO	*
171					RA-1-1-27H	SUR-009-R			*
172	76	6	4.42E-14	0.81713	/CONT-LEAK	HACTK3CP9-LFO0	1E-T102	LAK9ARCA-R00-LFO	*
173					RA-1-1-27H	SUR-009-R			*
174	72	6	4.42E-14	0.82084	/CONT-LEAK	HACTK3CP9-LFO0	1E-T102	LAK10RCA-R00-LFO	*
175					RA-1-1-27H	SUR-009-R			*
176	74	6	4.42E-14	0.82456	/CONT-LEAK	HACTK3CP9-LFO0	1E-T102	LAK18ARA-R00-LFO	*
177					RA-1-1-27H	SUR-009-R			*
178	68	6	4.42E-14	0.82828	/CONT-LEAK	HACTK3CP9-LFO0	1E-T101	LAK1888B-R00-LFO	*
179					RA-1-1-27H	SUR-007-R			*
180	78	6	4.42E-14	0.83200	/CONT-LEAK	HACTK9CP7-LFO0	1E-T101	LAK98PCB-R00-LFO	*
181					RA-1-1-27H	SUR-007-R			*
182	67	6	4.42E-14	0.83572	/CONT-LEAK	HACTK9CP7-LFO0	1E-T101	LAK1888B-R00-LFO	*
183					RA-1-1-27H	SUR-007-R			*
184	106	6	3.81E-14	0.83993	/CONT-LEAK	HCS001C-PMS-CS	1E-T102	LAK9ARCA-R00-LFO	*
185					RA-1-1-27H	SUR-009-R			*
186	105	6	3.81E-14	0.84214	/CONT-LEAK	HCSF004C-VCC-CS	1E-T101	LAK98PCB-R00-LFO	*
187					RA-1-1-27H	SUR-007-R			*
188	104	6	3.81E-14	0.84534	/CONT-LEAK	HCS001C-PMS-US	1E-T102	LAK10RCA-R00-LFO	*
189					RA-1-1-27H	SUR-009-R			*
190	102	6	3.81E-14	0.84855	/CONT-LEAK	HCSF004C-VCC-CS	1E-T102	LAK18ARA-R00-LFO	*
191					RA-1-1-27H	SUR-009-R			*
192	101	7	3.81E-14	0.85176	/CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-T102	*
193					LAK18ARA-R00-LFO	RA-1-1-27H	SUR-009-R		*
194	100	7	3.81E-14	0.85496	/CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-T102	*
195					LAK10RCA-R00-LFO	RA-1-1-27H	SUR-009-R		*
196	99	6	3.81E-14	0.85817	/CONT-LEAK	HCSF004C-VCC-CS	1E-T102	LAK9ARCA-R00-LFO	*
197					RA-1-1-27H	SUR-009-R			*
198	98	7	3.81E-14	0.86137	/CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-T101	*
199					LAK1888B-R00-LFO	RA-1-1-27H	SUR-007-R		*
200	97	6	3.81E-14	0.86458	/CONT-LEAK	HCS001C-PMS-CS	1E-T102	LAK18ARA-R00-LFO	*
201					RA-1-1-27H	SUR-009-R			*

202	96	6	3.81E-14	0.86779	/CONT-LEAK	* HCSF004C-VCC-CS	* 1E-1102	* LAK10RCA-ROO-LFO *
203					RA-1-1-27H	SUR-009-R		
204	103	7	3.81E-14	0.87099	/CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-1102
205					LAK9ARCA-ROO-LFO	RA-1-1-27H	SUR-009-R	
206	95	7	3.81E-14	0.87420	/CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	1E-1101
207					LAK9RBCB-ROO-LFO	RA-1-1-27H	SUR-007-R	
208	94	6	3.81E-14	0.87741	/CONT-LEAK	HCS0001C-PMS-CS	1E-1101	LAK108RB-ROO-LFO *
209					RA-1-1-27H	SUR-007-R		
210	93	6	3.81E-14	0.83061	/CONT-LEAK	HCS0001C-PMS-CS	1E-1101	LAK9RBCB-ROO-LFO *
211					RA-1-1-27H	SUR-007-R		
212	92	6	3.81E-14	0.88382	/CONT-LEAK	HCSF004C-VCC-CS	1E-1101	LAK108RB-ROO-LFO *
213					RA-1-1-27H	SUR-007-R		
214	109	7	3.48E-14	0.28675	/CONT-LEAK	FLOW-RHR-B3	HCS0001C-P-UJM	1E-1101
215					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-007-R	
216	108	7	3.48E-14	0.88968	/CONT-LEAK	FLOW-RHR-A3	HCS0001C-P-UJM	1E-1102
217					LAK93ARG-ROO-LFO	RA-2-11-27H	SUR-009-R	
218	111	7	3.36E-14	0.89252	/CONT-LEAK	FLOW-RHR-A3	HACTK9-ROO-LFO	1E-1102
219					LAK93ACPS-LFEC	RA-2-11-27H	SUR-009-R	
220	110	7	3.36E-14	0.89535	/CONT-LEAK	FLOW-RHR-A3	HACTK9CP7-LFO	1E-1102
221					LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-009-R	
222	107	7	3.36E-14	0.89819	/CONT-LEAK	FLOW-RHR-B3	HACTK9CP7-LFO	1E-1101
223					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-007-R	
224	122	7	2.90E-14	0.90063	/CONT-LEAK	FLOW-RHR-B3	HCS0001C-PMS-CS	1E-1101
225					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-007-R	
226	121	7	2.90E-14	0.90307	/CONT-LEAK	FLOW-RHR-A3	HCSF004C-VCC-CS	1E-1102
227					LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-009-R	
228	120	8	2.90E-14	0.90551	/CONT-LEAK	EE-CST-LVL	FLOW-RHR-B3	HCSF015C-VCC-CS
229					1E-1101	LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-007-R
230	119	7	2.90E-14	0.90796	/CONT-LEAK	FLOW-RHR-B3	HCSF004C-VCC-CS	1E-1101
231					LAK93BRC-ROO-LFO	RA-2-11-27H	SUR-007-R	
232	118	8	2.90E-14	0.91040	/CONT-LEAK	EE-CST-LVL	FLOW-RHR-A3	HCSF015C-VCC-CS
233					1E-1102	LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-009-R
234	117	6	2.90E-14	0.91284	/CONT-LEAK	CSEF068A-VCC-CS	HACTK9-ROO-LFO	1E-1102
235					RA-2-11-27H	SUR-009-R		
236	116	7	2.90E-14	0.91529	/CONT-LEAK	FLOW-RHR-A3	HCS0001C-PMS-CS	1E-1102
237					LAK93ARC-ROO-LFO	RA-2-11-27H	SUR-009-R	
238	127	7	2.26E-14	0.91719	/CONT-LEAK	FLOW-RHR-B3	HCTK14-ROO-LFO	1E-1101
239					LAK93BRC-ROO-LFO	RA-1-3-27H	SUR-007-R	
240	126	6	2.26E-14	0.91910	/CONT-LEAK	CSCD300A-PLG-LF	HACTK3-ROO-LFO	1E-1102
241					RA-1-3-27H	SUR-009-R		
242	125	6	2.26E-14	0.92100	/CONT-LEAK	CSCD300A-PLG-LF	HACTK3-ROO-LFO	1E-1102
243					RA-1-3-27H	SUR-009-R		
244	130	7	2.26E-14	0.92291	/CONT-LEAK	CSCD300A-PLG-LF	HACTK9-ROO-LFO	1E-1102
245					LAK93ARC-ROO-LFO	RA-1-3-27H	SUR-009-R	
246	129	6	2.26E-14	0.92481	/CONT-LEAK	CSCD300B-PLG-LF	HCTK14-ROO-LFO	1E-1102
247					RA-1-3-27H	SUR-007-R		
248	128	6	2.26E-14	0.92672	/CONT-LEAK	CSCD300B-PLG-LF	HACTK3-ROO-LFO	1E-1101
249					RA-1-3-27H	SUR-007-R		
250	134	6	2.07E-14	0.92847	/CONT-LEAK	HACTK3-ROO-LFO	HACTK9-ROO-LFO	1E-1101
251					RHRC026B-PMS-LF	SUR-007-R	1E-1101	RA-1-3-27H
252	133	6	2.07E-14	0.93021	/CONT-LEAK	HACTK3-ROO-LFO	1E-1102	RA-1-3-27H
253					RHRC02AA-PMS-LF	SUR-008-R		

254	132	6	2.07E-14	0.93196	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	* RA-1-3-27H	*
255					RHRC02AA-PMS-LF	* SUR-008-R	*		*
256	131	6	2.07E-14	0.93371	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	* RA-1-3-27H	*
257					RHRC02BR-PMS-LF	* SUR-007-R	*		*
258	114	6	2.07E-14	0.93545	C00G01P-PMS-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	*
259					RA-1-3-27H	* SUR-029-R	*		*
260	113	6	2.07E-14	0.93720	C20G01P-PMS-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1101	*
261					RA-1-3-27H	* SUR-029-R	*		*
262	112	6	2.07E-14	0.93895	C20G01P-PMS-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	*
263					RA-1-3-27H	* SUR-029-R	*		*
264	115	6	2.07E-14	0.94069	C00G01P-PMS-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1102	*
265					RA-1-3-27H	* SUR-029-R	*		*
266	139	6	1.83E-14	0.94223	/CONT-LEAK	* HCD1K14-ROO-LFO	* 1E-1101	* LAK9BRCB-ROO-LFO	*
267					RA-1-1-27H	* SUR-007-R	*		*
268	138	6	1.83E-14	0.94377	/CONT-LEAK	* HCD1K14-ROO-LFO	* 1E-1102	* LAK10RCA-ROO-LFO	*
269					RA-1-1-27H	* SUR-009-R	*		*
270	137	6	1.83E-14	0.94531	/CONT-LEAK	* HCD1K14-ROO-LFO	* 1E-1102	* 19ARCA-ROO-LFO	*
271					RA-1-1-27H	* SUR-009-R	*		*
272	136	6	1.83E-14	0.94685	/CONT-LEAK	* HCD1K14-ROO-LFO	* 1E-1102	* LAK1BARA-ROO-LFO	*
273					RA-1-1-27H	* SUR-009-R	*		*
274	135	6	1.83E-14	0.94839	/CONT-LEAK	* HCD1K14-ROO-LFO	* 1E-1101	* LAK15BRB-ROO-LFO	*
275					RA-1-1-27H	* SUR-007-R	*		*
276	150	6	1.67E-14	0.94980	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-1101	* LAK9BRCB-ROO-LFO	*
277					RA-1-1-27H	* SUR-007-R	*		*
278	149	6	1.67E-14	0.95121	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-1102	* LAK10RCA-ROO-LFO	*
279					RA-1-1-27H	* SUR-009-R	*		*
280	148	6	1.67E-14	0.95262	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-1102	* LAK9ARCA-ROO-LFO	*
281					RA-1-1-27H	* SUR-009-R	*		*
282	147	6	1.67E-14	0.95403	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-1102	* LAK1BARA-ROO-LFO	*
283					RA-1-1-27H	* SUR-009-R	*		*
284	146	6	1.67E-14	0.95544	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-1101	* LAK10BRB-ROO-LFO	*
285					RA-1-1-27H	* SUR-007-R	*		*
286	124	6	1.58E-14	0.95678	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1101	* RA-1-3-27H	*
287					SEVY03AV-ACX-LFI	* SUR-029-R	*		*
288	123	6	1.58E-14	0.95811	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	* PX-1-3-27H	*
289					SEVY03AX-ACX-LFI	* SUR-029-R	*		*
290	145	6	1.58E-14	0.95945	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1102	* NWVY01AX-ACX-LFI	*
291					RA-1-3-27H	* SUR-008-R	*		*
292	144	6	1.58E-14	0.96078	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	* NWVY01AX-ACX-LFI	*
293					RA-1-3-27H	* SUR-008-R	*		*
294	156	6	1.36E-14	0.96192	/CONT-LEAK	* EE-CSCD300A-PLG	* HACTK3-ROO-LFO	* 1E-1102	*
295					RA-1-3-27H	* SUR-009-R	*		*
296	155	6	1.36E-14	0.96307	/CONT-LEAK	* EE-CSDL100A-PLG	* HACTK9-ROO-LFO	* 1E-1102	*
297					RA-1-3-27H	* SUR-009-R	*		*
298	8	1.79E-14	0.96414	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-1101	* LAK14BRC-ROO-LFO	*	
299					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5K	* RA-2-11-27H	* SUR-007-R	*
300	159	7	1.28E-14	0.96522	/CONT-LEAK	* FLOW-BHR-A3	* HCSC001C-PMS-LF	* 1E-1102	*
301					LAK93ARC-ROO-LFO	* RA-2-11-27H	* SUR-009-R	*	
302	158	8	1.28E-14	0.96629	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-1102	* LAK14ARC-ROO-LFO	*
303					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5K	* RA-2-11-27H	* SUR-008-R	*
304	157	7	1.28E-14	0.96737	/CONT-LEAK	* FLOW-BHR-B3	* HCSC001C-PMS-LF	* 1E-1101	*
305					LAK13BRC-ROO-LFO	* RA-2-11-27H	* SUR-007-R	*	

306	143	6	1.09E-14	0.96829	C20001F-PLG-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	*
307					RA-1-3-27H	* SUR-029-R	+		
308	142	6	1.09E-14	0.96829	C20001F-PLG-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1101	*
309					RA-1-3-27H	* SUR-029-R	+		
310	141	6	1.09E-14	0.97013	C00001F-PLG-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1102	*
311					RA-1-3-27H	* SUR-029-R	+		
312	140	6	1.09E-14	0.97105	C00001F-PLG-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	*
313					RA-1-3-27H	* SUR-029-R	+		
314	170	8	1.02E-14	0.97191	/CONT-LEAK	* HACTCPF2-FUS-LF	* 1E-1101	* LAK14BRC-ROO-LFO	*
315					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-007-R	+
316	169	7	1.02E-14	0.97276	/CONT-LEAK	* FLOW-RHR-A3	* HACTCPF2-FUS-LF	* 1E-1102	+
317					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-009-R	+	
318	168	7	1.02E-14	0.97362	/CONT-LEAK	* FLOW-RHR-A3	* HACTCPF1-FUS-LF	* 1E-1102	*
319					LAK93ARC-ROO-LFO	* RA-1-3-27H	* SUR-009-R	+	
320	166	7	1.02E-14	0.97448	/CONT-LEAK	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	* 1E-1101	*
321					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-007-R	+	
322	165	7	1.02E-14	0.97534	/CONT-LEAK	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	* 1E-1101	*
323					LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-007-R	+	
324	164	8	1.02E-14	0.97619	/CONT-LEAK	* HACTCPF2-FUS-LF	* 1E-1102	* LAK14ARC-ROO-LFO	*
325					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-008-R	+
326	163	8	1.02E-14	0.97705	/CONT-LEAK	* HACTCPF1-FUS-LF	* 1E-1102	* LAK14ARC-ROO-LFO	*
327					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* RA-1-3-27H	* SUR-008-R	+
328	162	6	1.02E-14	0.97791	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1102	* NWVY01CA-FMS-LF	*
329					RA-1-3-27H	* SUR-008-R	+		
330	161	6	1.02E-14	0.97877	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	* NWVY01CA-FMS-LF	*
331					RA-1-3-27H	* SUR-008-R	+		
332	167	8	1.02E-14	0.97962	/CONT-LEAK	* HACTCPF1-FUS-LF	* 1E-1101	* LAK14BRC-ROO-LFO	*
333					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* SUR-007-R	+
334	152	6	1.02E-14	0.98048	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	* RA-1-3-27H	*
335					SEVY03CB-FMS-LF	* SUR-029-R	+		
336	151	6	1.02E-14	0.98134	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1101	* RA-1-3-27H	*
337					SEVY03CB-FMS-LF	* SUR-029-R	+		
338	184	6	1.00E-14	0.98219	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1101	* LAK28BXCPC4-LFCO	*
339					RA-1-1-27H	* SUR-007-R	+		
340	182	6	1.00E-14	0.98303	AP037X4CP1-LFCO	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	*
341					RA-1-1-27H	* SUR-009-R	+		
342	181	6	1.00E-14	0.98388	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	* LAK28BXCPC4-LFCO	*
343					RA-1-1-27H	* SUR-007-R	+		
344	180	6	1.00E-14	0.98473	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	* LAK3BRCXCP1-LFCO	*
345					RA-1-1-27H	* SUR-007-R	+		
346	179	6	1.00E-14	0.98557	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1102	* LAK3ARCXCP1-LFCO	*
347					RA-1-1-27H	* SUR-009-R	+		
348	178	6	1.00E-14	0.98642	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1102	* LAK28BXCPC4-LFCO	*
349					RA-1-1-27H	* SUR-009-R	+		
350	177	6	1.00E-14	0.98727	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	* LAK3ARCXCP1-LFCO	*
351					RA-1-1-27H	* SUR-009-R	+		
352	176	6	1.00E-14	0.98811	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1102	* LAK28BXCPC4-LFCO	*
353					RA-1-1-27H	* SUR-009-R	+		
354	175	6	1.00E-14	0.98896	/CONT-LEAK	* HACTK13CP5-LFCO	* 1E-1102	* LAK10RCA-ROO-LFO	*
355					RA-1-1-27H	* SUR-009-R	+		
356	174	6	1.00E-14	0.98980	/CONT-LEAK	* HACTK13CP5-LFCO	* 1E-1102	* LAK9ARCA-ROO-LFO	*
357					RA-1-1-27H	* SUR-009-R	+		

358	173	6	1.00E-14	0.99965	/CONT-LEAK	HACTK13CP5-LFCO	IE-T102	LAK188A-ROO-LFO
359	172	6	1.00E-14	0.99150	RA-1-1-27H	SUR-009-R	HACTK3-ROO-LFO	IE-T102
360					AP037X4CP1-LFCO	/CONT-LEAK		
361	171	6	1.00E-14	0.99234	RA-1-1-27H	SUR-009-R	IE-T101	LAK188B-ROO-LFO
362					/CONT-LEAK	HACTK13CP5-LFCO		
363	183	6	1.00E-14	0.99319	RA-1-1-27H	SUR-007-R	IE-T101	LAK38RCXCP1-LFCO
364					/CONT-LEAK	HACTK3-ROO-LFO		
365	154	6	1.00E-14	0.99404	RA-1-1-27H	SUR-007-R	HACTK3-ROO-LFO	IE-T101
366					AP040K4CP1-LFCO	/CONT-LEAK		
367	153	6	1.00E-14	0.99488	RA-1-1-27H	SUR-029-R	HACTK9-ROO-LFO	IE-T101
368					AP040K4CP1-LFCO	/CONT-LEAK		
369	186	6	5.19E-15	0.99532	RA-1-1-27H	SUR-029-R	IE-T101	RA-MSLDV-1-2H
370					/CONT-LEAK	HCS001C-PMS-LF		
371	185	6	5.19E-15	0.99576	RHR018Y-RTX-LFB	SUR-007-R	IE-T102	RA-MSLDV-1-2H
372					/CONT-LEAK	HCS001C-PMS-LF		
373	189	6	2.74E-15	0.99599	RHR018X-RTX-LFB	SUR-009-R	HCS001C-P-UJM	IE-T101
374					/CONT-LEAK	CSC0300B-PLG-LF		
375	188	6	2.74E-15	0.99622	RA-MSLDV-1-2H	SUR-007-R	HCS001C-P-UJM	IE-T102
376					/CONT-LEAK	CSC0300A-PLG-LF		
377	191	7	2.51E-15	0.99643	RA-MSLDV-1-2H	SUR-009-R	IE-T102	RA-MSLDV-1-2H
378					/CONT-LEAK	HCS001C-PMS-LF		
379	190	7	2.51E-15	0.99664	RRC02AA-P-UJM	SCSF06AA-DENER	SUR-008-R	RA-MSLDV-1-2H
380					/CONT-LEAK	HCS001C-PMS-LF	IE-T101	
381	187	6	2.51E-15	0.99686	RRC02BB-P-UJM	SCSF06BB-DENER	SUR-007-R	LCSC002A-P-UJM
382					/CONT-LEAK	HCS001C-PMS-LF	IE-T102	
383	195	7	2.36E-15	0.99705	RA-MSLDV-1-2H	SUR-029-R	HCSF015C-VCC-LF	IE-T102
384					/CONT-LEAK	EE-CST-LVL	SUR-009-R	
385	194	6	2.36E-15	0.99725	RA-MSLDV-1-2H	RHR018X-RTX-LFB	IE-T102	RA-MSLDV-1-2H
386					/CONT-LEAK	HCSF004C-VCC-LF		
387	193	7	2.36E-15	0.99745	RHR018X-RTX-LFB	SUR-009-R	HCSF015C-VCC-LF	IE-T101
388					/CONT-LEAK	EE-CST-LVL	SUR-007-R	
389	192	6	2.36E-15	0.99765	RA-MSLDV-1-2H	RHR018X-RTX-LFB	IE-T101	RA-MSLDV-1-2H
390					/CONT-LEAK	HCSF004C-VCC-LF		
391	197	6	2.28E-15	0.99784	RHR018X-RTX-LFB	SUR-007-R	HCS001C-PMS-CS	IE-T101
392					/CONT-LEAK	CSCD300B-PLG-LF		
393	196	6	2.28E-15	0.99804	RA-MSLDV-1-2H	SUR-007-R	HCS001C-PMS-CS	IE-T102
394					/CONT-LEAK	CSCD300A-PLG-LF		
395	201	6	1.00E-15	0.99812	RA-MSLDV-1-2H	SUR-009-R	HCS001C-PMS-LF	IE-T101
396					/CONT-LEAK	CSCD300B-PLG-LF		
397	200	6	1.00E-15	0.99820	RA-MSLDV-1-2H	SUR-007-R	HCS001C-PMS-LF	IE-T102
398					/CONT-LEAK	CSCD300A-PLG-LF		
399	203	6	9.21E-16	0.99828	RA-MSLDV-1-2H	SUR-009-R	IE-T101	RA-MSLDV-1-2H
400					/CONT-LEAK	HCS001C-PMS-LF		
401	202	6	9.21E-16	0.99836	RRC02BB-PMS-LF	SUR-007-R	IE-T102	RA-MSLDV-1-2H
402					/CONT-LEAK	HCS001C-PMS-LF		
403	199	6	9.21E-16	0.99844	RRC02AA-PMS-LF	SUR-008-R	HCS001C-PMS-LF	IE-T101
404					/CONT-LEAK	/CONT-LEAK		
405	198	6	9.21E-16	0.99851	C2DGG01P-PMS-LF	SUR-029-R	HCS001C-PMS-LF	IE-T102
406					RA-MSLDV-1-2H	/CONT-LEAK		
407					CDDG01P-PMS-LF	/CONT-LEAK		
					RA-MSLDV-1-2H	SUR-029-R		



SEQUENCE 141

TOP EVENT DP05A2-T-SE038A CONTAINS 58 EVENTS IN 91 CUT SF15

THE FREQUENCY OF TOP EVENT DP05A2-T-SE038A IS 1.57E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DP05A2-T-SE038A

N	300
MEAN	1.15E-08
STD DEV	3.28E-08
LOWER 5%	1.35E-10
LOWER 25%	1.01E-09
MEDIAN	3.34E-09
UPPER 25%	8.88E-09
UPPER 5%	4.74E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE T41  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RA-1-1-27H	22	2.10E-03 ( 30.5)	8.86E-09 ( 1.0)	1.84E-11	2.08E-08
CSCC002-P-UUM	11	3.00E-03 ( 24.5)	4.19E-09 ( 2.0)	9.65E-12	1.16E-08
RA-MSLDV-1-2H	58	2.10E-03 ( 30.5)	3.67E-09 ( 3.0)	2.95E-11	8.36E-09
SWVY02CC-FMS-CC	9	2.50E-03 ( 28.0)	3.49E-09 ( 4.0)	3.98E-12	7.40E-09
RA-2-11-27H	11	1.60E-03 ( 32.0)	3.13E-09 ( 5.0)	5.90E-12	9.05E-09
DGCOOL-BETA	1	1.10E-01 ( 11.0)	2.89E-09 ( 6.5)	1.17E-11	7.95E-09
DGCOOL-PMS-CM	1	2.50E-03 ( 28.0)	2.89E-09 ( 6.5)	1.17E-11	7.95E-09
CSCC002-PMS-LF	31	1.10E-03 ( 38.0)	2.24E-09 ( 8.0)	1.10E-11	4.74E-09
LAK9BRBC-ROO-LFO	5	2.00E-02 ( 16.0)	2.09E-09 ( 9.5)	3.86E-12	4.79E-09
LAK18BRB-ROO-LFO	5	2.00E-02 ( 16.0)	2.09E-09 ( 9.5)	3.86E-12	4.79E-09
FLOW-RHR-B3	7	1.00E+00 ( 5.5)	1.60E-09 ( 11.0)		
LAK93BRC-ROO-LFO	5	2.00E-02 ( 16.0)	1.59E-09 ( 12.0)	2.88E-12	4.55E-09
LAK9ARCA-ROO-LFO	4	2.00E-02 ( 16.0)	1.56E-09 ( 14.0)	3.31E-12	3.63E-09
LAK18ARA-ROO-LFO	4	2.00E-02 ( 16.0)	1.56E-09 ( 14.0)	3.31E-12	3.63E-09
LAK10RCA-ROO-LFO	4	2.00E-02 ( 16.0)	1.56E-09 ( 14.0)	3.31E-12	3.63E-09
CSCC002-PMS-CC	4	2.50E-03 ( 28.0)	1.48E-09 ( 16.0)	1.76E-12	3.15E-09
FLOW-RHR-A3	6	1.00E+00 ( 5.5)	1.20E-09 ( 17.0)		
LAK93ARC-ROO-LFO	4	2.00E-02 ( 16.0)	1.19E-09 ( 18.0)	2.11E-12	3.66E-09
SWVY02AX-ACK-LFI	9	8.40E-04 ( 42.0)	1.17E-09 ( 19.0)	1.58E-12	2.97E-09
CSCD300-PLG-LF	22	5.80E-04 ( 45.0)	2.03E-10 ( 20.0)	5.92E-13	7.78E-10
LAK14ARC-RCO-LFO	1	2.00E-02 ( 16.0)	1.76E-10 ( 23.5)	1.95E-13	4.97E-10
LAK14BRC-RCO-LFO	1	2.00E-02 ( 16.0)	1.76E-10 ( 23.5)	1.95E-13	4.97E-10
NOFLOW-SPC-B5X	1	1.00E+00 ( 5.5)	1.76E-10 ( 23.5)		
NOFLOW-SPC-A5X	1	1.00E+00 ( 5.5)	1.76E-10 ( 23.5)		
NOFLOW-CSS-B7A	1	1.00E+00 ( 5.5)	1.76E-10 ( 23.5)		
NOFLOW-CSS-A7A	1	1.00E+00 ( 5.5)	1.76E-10 ( 23.5)		
CSCD300B-PLG-LF	7	1.20E-03 ( 33.5)	1.34E-10 ( 27.0)	5.35E-13	5.53E-10
RHRH01BX-HTX-LFB	5	6.20E-03 ( 21.5)	1.10E-10 ( 28.0)	1.17E-13	3.31E-10
RHRH01AX-HTX-LFB	3	6.20E-03 ( 21.5)	1.10E-10 ( 29.0)	1.17E-13	3.31E-10
CSCD300A-PLG-LF	6	1.20E-03 ( 33.5)	1.02E-10 ( 30.0)	3.92E-13	3.97E-10
SCSF06BB-DENER	2	1.00E+00 ( 5.5)	5.29E-11 ( 33.0)		
SCSF06AA-DENER	2	1.00E+00 ( 5.5)	5.29E-11 ( 33.0)		
LCSC002A-P-UUM	2	3.00E-03 ( 24.5)	5.29E-11 ( 33.0)	1.18E-13	1.48E-10
RHRC02BB-P-UUM	2	3.00E-03 ( 24.5)	5.29E-11 ( 33.0)	1.18E-13	1.48E-10
RHRC02AA-P-UUM	2	3.00E-03 ( 24.5)	5.29E-11 ( 33.0)	1.18E-13	1.48E-10
C2D01P-PMS-LF	2	1.10E-03 ( 38.0)	1.94E-11 ( 37.5)	6.10E-14	1.44E-10
RHRC02BB-PMS-LF	2	1.10E-03 ( 38.0)	1.94E-11 ( 37.5)	6.10E-14	1.44E-10
RHRC02AA-PMS-LF	2	1.10E-03 ( 38.0)	1.94E-11 ( 37.5)	6.10E-14	1.44E-10
C0D01P-PMS-LF	2	1.10E-03 ( 38.0)	1.94E-11 ( 37.5)	6.10E-14	1.44E-10
EE-CSCD300A-PLG	2	7.20E-04 ( 43.0)	1.27E-11 ( 40.0)	3.64E-14	3.98E-11
C0D01F-PLG-LF	2	5.80E-04 ( 45.0)	1.02E-11 ( 41.5)	2.04E-14	5.02E-11
C2D01F-PLG-LF	2	5.80E-04 ( 45.0)	1.02E-11 ( 41.5)	2.04E-14	5.02E-11
SCSF06BB-VCC-LF	2	5.00E-04 ( 50.0)	8.82E-12 ( 45.5)	1.82E-14	2.92E-11
SCSF068A-VCC-LF	2	5.00E-04 ( 50.0)	8.82E-12 ( 45.5)	1.82E-14	2.92E-11
RHRF48BB-V00-LF	2	5.00E-04 ( 50.0)	8.82E-12 ( 45.5)	1.82E-14	2.92E-11

RHRF48AA-V00-LF	2	5.00E-04 ( 50.0)	8.82E-12 ( 45.5)	1.82E-14	2.92E-11
RHRB01BB-B00-LF	2	5.00E-04 ( 50.0)	8.82E-12 ( 45.5)	2.71E-14	2.71E-11
RHRB01AA-B00-LF	2	5.00E-04 ( 50.0)	8.82E-12 ( 45.5)	2.71E-14	2.71E-11
CCBC002-B00-LF	2	8.40E-05 ( 56.0)	2.12E-12 ( 49.0)	2.11E-15	7.42E-12
RHR301BX-STR	2	1.10E-04 ( 54.5)	1.94E-12 ( 51.5)	4.51E-15	4.92E-12
RHR301A:-STR	2	1.10E-04 ( 54.5)	1.94E-12 ( 51.5)	4.51E-15	4.92E-12
NOFLOW-RWR-B1	2	1.00E+00 ( 5.5)	1.94E-12 ( 51.5)		
NOFLOW-RWR-A1	2	1.00E+00 ( 5.5)	1.94E-12 ( 51.5)		
HCSC001C-PMS-LF	4	1.10E-03 ( 38.0)	5.44E-13 ( 54.0)	2.88E-16	1.55E-12
2C11C001B-PMS-LF	1	1.10E-03 ( 38.0)	7.88E-14 ( 55.0)	2.08E-17	4.04E-13
2C11C001B-B00-LF	1	5.00E-04 ( 50.0)	3.58E-14 ( 56.0)	1.38E-17	7.80E-14

## SEQUENCE T41

## RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RA-1-1-27H	22	2.10E-03 ( 30.5)	4.21E-06 ( 1.0)	4.49E-08	1.47E-05
CSCC002-PMS-LF	31	1.10E-03 ( 38.0)	2.04E-06 ( 2.0)	3.93E-08	4.96E-06
RA-2-11-27H	11	1.60E-03 ( 32.0)	1.95E-06 ( 3.0)	2.21E-08	6.88E-06
RA-MSLDV-1-2H	58	2.10E-03 ( 30.5)	1.74E-06 ( 4.0)	7.57E-08	6.66E-06
SWVY02AX-ACX-LFI	9	8.40E-04 ( 42.0)	1.39E-06 ( 5.0)	1.12E-08	3.78E-06
SWVY02CC-FMS-CC	9	2.50E-03 ( 28.0)	1.39E-06 ( 6.0)	1.12E-08	3.78E-06
CSCC002-P-UUM	11	3.00E-03 ( 24.5)	1.39E-06 ( 7.0)	1.11E-08	3.73E-06
DGCOOL-PMS-CM	1	2.50E-03 ( 28.0)	1.15E-06 ( 8.0)	2.64E-08	3.67E-06
CSCC002-PMS-CC	4	2.50E-03 ( 28.0)	5.91E-07 ( 9.0)	4.72E-09	1.58E-06
CSCD300-PLG-LF	22	5.80E-04 ( 45.0)	3.49E-07 ( 10.0)	7.28E-09	1.24E-06
CSCD300B-PLG-LF	7	1.20E-03 ( 33.5)	1.11E-07 ( 11.0)	1.89E-09	4.32E-07
LAK9BRCB-ROO-LFO	5	2.60E-02 ( 16.0)	1.02E-07 ( 12.5)	1.70E-09	4.12E-07
LAK18BRB-ROO-LFO	5	2.00E-02 ( 16.0)	1.07E-07 ( 12.5)	1.70E-09	4.12E-07
CSCD300A-PLG-LF	6	1.20E-03 ( 33.5)	8.50E-08 ( 14.0)	1.69E-09	2.91E-07
LAK93BRC-ROO-LFO	5	2.00E-02 ( 16.0)	7.79E-08 ( 15.0)	8.12E-10	3.06E-07
LAK9ARCA-ROO-LFO	4	2.00E-02 ( 16.0)	7.66E-08 ( 17.0)	1.51E-09	2.69E-07
LAK18ARA-ROO-LFO	4	2.00E-02 ( 16.0)	7.66E-08 ( 17.0)	1.51E-09	2.69E-07
LAK10RCA-ROO-LFO	4	2.00E-02 ( 16.0)	7.66E-08 ( 17.0)	1.51E-09	2.69E-07
LAK93ARC-ROO-LFO	4	2.00E-02 ( 16.0)	5.83E-08 ( 19.0)	6.83E-10	1.90E-07
CCBC002-BCO-LF	2	8.40E-05 ( 56.0)	2.52E-08 ( 20.0)	1.67E-10	9.88E-08
DGCOOL-BETA	1	1.10E-01 ( 11.0)	2.34E-08 ( 21.0)	1.28E-10	6.50E-08
RHR301BX-STR	2	1.10E-04 ( 54.5)	1.76E-08 ( 22.5)	2.70E-10	5.68E-08
RHR301AX-STR	2	1.10E-04 ( 54.5)	1.76E-08 ( 22.5)	2.70E-10	5.68E-08
CSCF068B-VCC-LF	2	5.00E-04 ( 50.0)	1.76E-08 ( 26.5)	2.70E-10	5.68E-08
CSCF068A-VCC-LF	2	5.00E-04 ( 50.0)	1.76E-08 ( 26.5)	2.70E-10	5.68E-08
RHRF48AA-V00-LF	2	5.00E-04 ( 50.0)	1.76E-08 ( 26.5)	2.70E-10	5.68E-08
RHRB01BB-B00-LF	2	5.00E-04 ( 50.0)	1.76E-08 ( 26.5)	2.70E-10	5.68E-08
RHRB01AA-B00-LF	2	5.00E-04 ( 50.0)	1.76E-08 ( 26.5)	2.70E-10	5.68E-08
RHRF48BB-V00-LF	2	5.00E-04 ( 50.0)	1.76E-08 ( 26.5)	2.70E-10	5.68E-08
CODG01F-PLG-LF	2	5.80E-04 ( 45.0)	1.76E-08 ( 30.5)	2.70E-10	5.67E-08
C2D001F-PLG-LF	2	5.80E-04 ( 45.0)	1.76E-08 ( 30.5)	2.70E-10	5.67E-08
EE-CSCD300A-PLG	2	7.20E-04 ( 43.0)	1.76E-08 ( 32.0)	2.70E-10	5.68E-08
C2D001P-PMS-LF	2	1.10E-03 ( 38.0)	1.76E-08 ( 34.5)	2.70E-10	5.67E-08
RHRC02BB-PMS-LF	2	1.10E-03 ( 38.0)	1.76E-08 ( 34.5)	2.70E-10	5.67E-08
RHRC02AA-PMS-LF	2	1.10E-03 ( 38.0)	1.76E-08 ( 34.5)	2.70E-10	5.67E-08
CODG01P-PMS-LF	2	1.10E-03 ( 38.0)	1.76E-08 ( 34.5)	2.70E-10	5.67E-08
LCSC002A-P-UUM	2	3.00E-03 ( 24.5)	1.76E-08 ( 38.0)	2.70E-10	5.67E-08
RHRC02BB-P-UUM	2	3.00E-03 ( 24.5)	1.76E-08 ( 38.0)	2.70E-10	5.67E-08
RHRC02AA-P-UUM	2	3.00E-03 ( 24.5)	1.76E-08 ( 38.0)	2.70E-10	5.67E-08
RHRH01BX-HTX-LFB	5	6.20E-03 ( 21.5)	1.76E-08 ( 40.0)	2.67E-10	5.69E-08
RHRH01AX-HTX-LFB	3	6.20E-03 ( 21.5)	1.76E-08 ( 41.0)	2.67E-10	5.68E-08
LAK14BRC-RCO-LFO	1	2.00E-02 ( 16.0)	8.62E-09 ( 42.5)	5.98E-11	2.98E-08
LAK14ARC-RCO-LFO	1	2.00E-02 ( 16.0)	8.62E-09 ( 42.5)	5.98E-11	2.98E-08
HCSC001C-PMS-LF	4	1.10E-03 ( 38.0)	4.94E-10 ( 44.0)	1.11E-12	1.46E-09
2C11C001B-B00-LF	1	5.00E-04 ( 50.0)	7.16E-11 ( 45.0)	1.42E-13	1.84E-10

1.42E-13 1.84E-10

2C11C001B-PMS-LF	1	1.10E-03 ( 38.0)	7.15E-11 ( 46.0)
SCSF06BB-DENER	2	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
SCSF06AA-DENER	2	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
FLOW-RHR-B3	7	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
FLOW-RHR-A3	6	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
NOFLOW-SPC-B5X	1	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
NOFLOW-SPC-A5X	1	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
NOFLOW-RHR-B1	2	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
NOFLOW-RHR-A1	2	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
NOFLOW-CSS-B7A	1	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)
NOFLOW-CSS-A7A	1	1.00E+00 ( 5.5)	0.00E+00 ( 51.5)

SEQUENCE T41  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
RA-1-1-27H	22	2.10E-03 ( 30.5)	29.9	( 1.5)	3.03	1.08
RA-MSLDV-1-2H	58	2.10E-03 ( 30.5)	29.9	( 1.5)	3.03	1.08
LAK938RC-ROO-LFO	5	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK144AC-ROO-LFO	1	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK148RC-ROO-LFO	1	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK98RCR-RV-LFO	5	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK10RL-LFO	4	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK188RB-ROO-LFO	5	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK9ARCA-ROO-LFO	4	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK18ARA-ROO-LFO	4	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
LAK93ARC-ROO-LFO	4	2.00E-02 ( 16.0)	24.4	( 7.0)	3.15	1.21
SWVY02CC-FMS-CC	9	2.50E-03 ( 28.0)	15.2	( 13.0)	2.43	0.77
DGCOOL-PMS-CM	1	2.50E-03 ( 28.0)	15.2	( 13.0)	2.43	0.77
CSCC002-PMS-CC	4	2.50E-03 ( 28.0)	15.2	( 13.0)	2.43	0.77
CSCC002-P-UUM	11	3.00E-03 ( 24.5)	6.3	( 15.0)	1.20	1.03
RA-2-11-27H	11	1.60E-03 ( 32.0)	3.5	( 16.0)	1.33	1.01
CSCF068B-VCC-LF	2	5.00E-04 ( 50.0)	3.0	( 18.5)	1.01	1.00
CSCF068A-VCC-LF	2	5.00E-04 ( 50.0)	3.0	( 18.5)	1.01	1.00
RHRF48AA-V00-LF	2	5.00E-04 ( 50.0)	3.0	( 18.5)	1.01	1.00
RHRF48BB-V00-LF	2	5.00E-04 ( 50.0)	3.0	( 18.5)	1.01	1.00
SWVY02AX-ACK-LFI	9	8.40E-04 ( 42.0)	2.5	( 21.0)	0.94	0.98
RHR301AX-STR	2	1.10E-04 ( 54.5)	2.1	( 22.5)	1.00	1.00
RHR301BX-STR	2	1.10E-04 ( 54.5)	2.1	( 22.5)	1.00	1.00
C20G01P-PMS-LF	2	1.10E-03 ( 38.0)	1.9	( 27.0)	1.26	1.12
RHRC028B-PMS-LF	2	1.10E-03 ( 38.0)	1.9	( 27.0)	1.26	1.12
HCSC001C-PMS-LF	4	1.10E-03 ( 38.0)	1.9	( 27.0)	1.26	1.12
CSCC002-PMS-LF	31	1.10E-03 ( 38.0)	1.9	( 27.0)	1.26	1.12
2C11C001B-PMS-LF	1	1.10E-03 ( 38.0)	1.9	( 27.0)	1.26	1.12
C00G01P-PMS-LF	2	1.10E-03 ( 38.0)	1.9	( 27.0)	1.26	1.12
RHRC02AA-PMS-LF	2	1.10E-03 ( 38.0)	1.9	( 27.0)	1.26	1.12
CSCD300A-PLG-LF	6	1.20E-03 ( 33.5)	1.6	( 31.5)	1.06	1.00
CSCD300B-PLG-LF	7	1.20E-03 ( 33.5)	1.6	( 31.5)	1.06	1.00
C00G01F-PLG-LF	2	5.80E-04 ( 45.0)	1.5	( 34.0)	1.04	1.00
CSCD300-PLG-LF	22	5.80E-04 ( 45.0)	1.5	( 34.0)	1.04	1.00
C20G01F-PLG-LF	2	5.80E-04 ( 45.0)	1.5	( 34.0)	1.04	1.00
LCSC002A-P-UUM	2	3.00E-03 ( 24.5)	0.0	( 41.0)		
CCBC002-BCO-LF	2	8.40E-05 ( 56.0)	0.0	( 41.0)		
RHRH01BX-HTX-LFB	5	6.20E-03 ( 21.5)	0.0	( 41.0)		
RHRH01AX-HTX-LFB	3	6.20E-03 ( 21.5)	0.0	( 41.0)		
RHRC028B-P-UUM	2	3.00E-03 ( 24.5)	0.0	( 41.0)		
RHRC02AA-P-UUM	2	3.00E-03 ( 24.5)	0.0	( 41.0)		
RHRB01BB-BOO-LF	2	5.00E-04 ( 50.0)	0.0	( 41.0)		
RHRB01AA-BOO-LF	2	5.00E-04 ( 50.0)	0.0	( 41.0)		
EE-CSCD300A-PLG	2	7.20E-04 ( 43.0)	0.0	( 41.0)		
2C11C001B-BOO-LF	1	5.00E-04 ( 50.0)	0.0	( 41.0)		

DGCOOL-BETA	1	1.10E-01	( 11.0)	0.0	( 41.0)
SCSFD6BB-DENER	2	1.00E+00	( 5.5)		
SCSFD6AA-DENER	2	1.00E+00	( 5.5)		
FLOW-RHR-B3	7	1.00E+00	( 5.5)		
FLOW-RHR-A3	6	1.00E+00	( 5.5)		
NOFLOW-SPC-B5X	1	1.00E+00	( 5.5)		
NOFLOW-SPC-A5X	1	1.00E+00	( 5.5)		
NOFLOW-RHR-B1	2	1.00E+00	( 5.5)		
NOFLOW-RHR-A1	2	1.00E+00	( 5.5)		
NOFLOW-CSS-B7A	1	1.00E+00	( 5.5)		
NOFLOW-CSS-A7A	1	1.00E+00	( 5.5)		

SEQUENCE 141

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT DPOSA2-T-SEQ38A WITH TOP EVENT FREQUENCY 1.57E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE "EMACSETS.DMF")

2	1	4	2.89E-09	0.18434	DG000L-BETA	DG000L-PMS-0M	IE-T102	LAK9ARCA-ROO-LFO	RA-MSLDV-1-2H	*
3	3	4	6.30E-10	0.22456	CSCC002-P-UJM	IE-T102	LAK9ARCA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	*
4	5	4	6.30E-10	0.26479	CSCC002-P-UJM	IE-T102	LAK10RCA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	*
5	4	4	6.30E-10	0.30501	CSCC002-P-UJM	IE-T101	LAK98RCB-ROO-LFO	RA-1-1-27H	RA-1-1-27H	*
6	6	4	6.30E-10	0.34523	CSCC002-P-UJM	IE-T101	LAK18RBR-ROO-LFO	RA-1-1-27H	RA-1-1-27H	*
7	2	4	6.30E-10	0.38545	CSCC002-P-UJM	IE-T102	LAK10RCA-ROO-LFO	RA-1-1-27H	RA-1-1-27H	*
8	8	4	5.25E-10	0.41896	CSCC002-PMS-CC	IE-T101	LAK18RBR-ROO-LFO	RA-1-1-27H	RA-1-1-27H	*
9	7	4	5.25E-10	0.45248	CSCC002-PMS-CC	IE-T101	LAK98RCB-ROO-LFO	RA-1-1-27H	RA-1-1-27H	*
10	13	4	5.25E-10	0.48600	IE-T102	LAK10RCA-ROO-LFO	RA-1-1-27H	SMVY02CC-FMS-CC	SMVY02CC-FMS-CC	*
11	12	4	5.25E-10	0.51952	IE-T101	LAK98RCB-ROO-LFO	RA-1-1-27H	SMVY02CC-FMS-CC	SMVY02CC-FMS-CC	*
12	7	4	5.25E-10	0.55303	IE-T102	LAK9ARCA-ROO-LFO	RA-1-1-27H	SMVY02CC-FMS-CC	SMVY02CC-FMS-CC	*
13	13	4	2.5E-10	0.58655	IE-T101	LAK18RBR-ROO-LFO	RA-1-1-27H	SMVY02CC-FMS-CC	SMVY02CC-FMS-CC	*
14	7	4	5.25E-10	0.62007	IE-T102	LAK18ARA-ROO-LFO	RA-1-1-27H	SMVY02CC-FMS-CC	SMVY02CC-FMS-CC	*
15	1	5	4.80E-10	0.65071	CSCC002-P-UJM	FLOW-RHR-A3	IE-T102	LAK93ARC-ROO-LFO	LAK93ARC-ROO-LFO	*
16	16	5	4.80E-10	0.68136	RA-2-11-27H	FLOW-RHR-B3	IE-T101	LAK93BRC-ROO-LFO	LAK93BRC-ROO-LFO	*
17	14	5	4.80E-10	0.71201	CSCC002-P-UJM	FLOW-RHR-B3	IE-T101	LAK93BRC-ROO-LFO	LAK93BRC-ROO-LFO	*
18	18	5	4.00E-10	0.70689	RA-2-11-27H	CSCC002-PMS-CC	IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	*
19	16	5	4.00E-10	0.73243	RA-2-11-27H	FLOW-RHR-B3	IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	*
20	18	5	4.00E-10	0.75797	SMVY02CC-FMS-CC	FLOW-RHR-B3	IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	*
21	23	5	4.00E-10	0.78251	SMVY02CC-FMS-CC	FLOW-RHR-B3	IE-T102	LAK93BRC-ROO-LFO	RA-2-11-27H	*
22	24	5	4.00E-10	0.80705	SMVY02CC-FMS-CC	FLOW-RHR-B3	IE-T102	LAK93BRC-ROO-LFO	RA-2-11-27H	*
23	25	4	2.31E-10	0.77271	CSCC002-PMS-LF	SMVY02CC-FMS-CC	IE-T102	LAK9ARCA-ROO-LFO	RA-1-1-27H	*
24	21	4	2.31E-10	0.78746	CSCC002-PMS-LF	SMVY02CC-FMS-CC	IE-T102	LAK10RCA-ROO-LFO	RA-1-1-27H	*
25	20	4	2.31E-10	0.80221	CSCC002-PMS-LF	SMVY02CC-FMS-CC	IE-T101	LAK98RCB-ROO-LFO	RA-1-1-27H	*
26	19	4	2.31E-10	0.81696	CSCC002-PMS-LF	SMVY02CC-FMS-CC	IE-T101	LAK18RBR-ROO-LFO	RA-1-1-27H	*
27	22	4	2.31E-10	0.83170	CSCC002-PMS-LF	SMVY02CC-FMS-CC	IE-T102	LAK18ARA-ROO-LFO	RA-1-1-27H	*
28	28	4	1.76E-10	0.84297	IE-T102	LAK18ARA-ROO-LFO	RA-1-1-27H	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	*
29	27	4	1.76E-10	0.85423	IE-T102	LAK9ARCA-ROO-LFO	RA-1-1-27H	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	*
30	26	4	1.76E-10	0.86549	IE-T101	LAK18RBR-ROO-LFO	RA-1-1-27H	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	*
31	25	4	1.76E-10	0.87675	IE-T102	LAK10RCA-ROO-LFO	RA-1-1-27H	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	*
32	24	4	1.76E-10	0.88801	IE-T101	LAK98RCB-ROO-LFO	RA-1-1-27H	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	*
33	31	5	1.76E-10	0.89925	CSCC002-PMS-LF	FLOW-RHR-A3	IE-T102	LAK93ARC-ROO-LFO	LAK93ARC-ROO-LFO	*
34	30	6	1.76E-10	0.91049	CSCC002-PMS-LF	FLOW-RHR-A3	IE-T101	LAK14BRC-ROO-LFO	NOFLOW-CSS-B7A	*
35	29	6	1.76E-10	0.92172	NOFLOW-SPC-B5X	NOFLOW-SPC-B5X	RA-2-11-27H	LAK14A-C-ROO-LFO	NOFLOW-CSS-A7A	*
36	39	6	1.76E-10	0.93296	CSCC002-PMS-LF	NOFLOW-SPC-A5X	RA-2-11-27H	LAK93BRC-ROO-LFO	LAK93BRC-ROO-LFO	*
37	40	5	1.76E-10	0.94154	CSCC002-PMS-LF	RA-2-11-27H	FLOW-RHR-B3	LAK93BRC-ROO-LFO	LAK93BRC-ROO-LFO	*
38	41	5	1.34E-10	0.94154	RA-2-11-27H	FLOW-RHR-B3	IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	*
39	42	5	1.34E-10	0.94154	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	*
40	43	5	1.34E-10	0.94154	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	*
41	44	5	1.34E-10	0.94154	SMVY02AX-ACK-LFI	SMVY02AX-ACK-LFI	IE-T101	LAK93BRC-ROO-LFO	RA-2-11-27H	*



47	33	5	1.74E-10	0.95012	FLOW-RHR-A3	1E-T102	RA-2-11-27H	
48	36	4	7.16E-11	0.95469	SMVY02AK-ACK-LF1	1E-T102	RHR018X-HTX-LFB	
49	35	4	7.16E-11	0.95926	CSCC002-PMS-LF	1E-T101	RHR018X-HTX-LFB	
50	40	4	3.78E-11	0.9616	CSCC002-PMS-LF	1E-T101	RA-MSLDV-1-2H	
51	49	4	3.78E-11	0.96409	CSCC002-P-UJM	CSCD300A-PLG-LF	RA-MSLDV-1-2H	
52	5	4	3.78E-11	0.96650	CSCC002-P-UJM	1E-T102	RHR018X-HTX-LFB	
53	3	4	3.78E-11	0.96891	CSCD300-PLG-LF	1E-T101	RHR07AX-HTX-LFB	
54	42	5	3.47E-11	0.97112	CSCC002-PMS-LF	1E-T102	RHR07AX-HTX-LFB	
55	41	5	3.47E-11	0.97333	SCSF06AA-DENER	1E-T101	RHR07AX-HTX-LFB	
56	43	4	3.46E-11	0.97555	SCSF06AA-DENER	1E-T102	RHR07AX-HTX-LFB	
57	46	4	3.15E-11	0.97756	CSCC002-PMS-LF	1E-T101	RHR07AX-HTX-LFB	
58	45	4	3.15E-11	0.97957	CSCD300A-PLG-LF	1E-T102	RHR07AX-HTX-LFB	
59	44	4	3.15E-11	0.98158	CSCC002-PMS-LF	CSCD300B-PLG-LF	RHR07AX-HTX-LFB	
60	49	5	1.83E-11	0.98375	CSCD300-PLG-LF	1E-T102	RHR07AX-HTX-LFB	
61	48	4	1.83E-11	0.98391	SCSF06AA-DENER	1E-T102	RHR07AX-HTX-LFB	
62	47	5	1.83E-11	0.98508	CSCD300-PLG-LF	1E-T101	RHR07AX-HTX-LFB	
63	51	4	1.87E-11	0.98596	CSCC002-PMS-LF	CSCD300A-PLG-LF	RA-MSLDV-1-2H	
64	50	4	1.39E-11	0.98685	CSCC002-PMS-LF	1E-T101	RA-MSLDV-1-2H	
65	55	4	1.27E-11	0.9877	CSCC002-PMS-LF	1E-T102	RA-MSLDV-1-2H	
66	53	4	1.27E-11	0.9884	CSCC002-PMS-LF	1E-T101	RA-MSLDV-1-2H	
67	54	4	1.27E-11	0.98928	CSCC002-PMS-LF	1E-T102	RA-MSLDV-1-2H	
68	52	4	1.27E-11	0.99009	CSCC002-PMS-LF	1E-T101	RA-MSLDV-1-2H	
69	57	4	1.96E-11	0.99077	CSCC002-PMS-LF	1E-T102	RA-MSLDV-1-2H	
70	56	4	1.04E-11	0.99164	CSCC002-PMS-LF	1E-T101	RA-MSLDV-1-2H	
71	58	4	8.32E-12	0.99197	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	
72	60	4	7.31E-12	0.99264	CSCD300-PLG-LF	1E-T101	RA-MSLDV-1-2H	
73	59	4	7.31E-12	0.99291	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	
74	62	4	6.70E-12	0.99334	CSCD300-PLG-LF	1E-T101	RA-MSLDV-1-2H	
75	61	4	6.70E-12	0.99376	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	
76	66	4	6.70E-12	0.99419	CSCD300-PLG-LF	1E-T101	RA-MSLDV-1-2H	
77	65	4	6.70E-12	0.99462	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	
78	63	4	6.70E-12	0.99505	CSCD300-PLG-LF	1E-T101	RA-MSLDV-1-2H	
79	64	4	6.70E-12	0.99547	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	
80	72	5	5.78E-12	0.99584	CSCC002-PMS-LF	FLOW-RHR-A3	RA-MSLDV-1-2H	
81	84	4	5.78E-12	0.99621	RHF48AA-V00-LF	CSCF068A-VCC-LF	RA-MSLDV-1-2H	
82	85	4	5.78E-12	0.99658	CSCC002-PMS-LF	1E-T102	RHR01AA-800-LF	
83	86	5	5.78E-12	0.99695	CSCC002-PMS-LF	FLOW-RHR-B3	RA-MSLDV-1-2H	
84	87	4	5.78E-12	0.99732	RHF48BB-V00-LF	1E-T101	RA-MSLDV-1-2H	
85	88	4	5.78E-12	0.99769	CSCC002-PMS-LF	1E-T102	RA-MSLDV-1-2H	
86	89	4	5.78E-12	0.99797	CSCC002-PMS-LF	1E-T101	RA-MSLDV-1-2H	
87	90	4	5.78E-12	0.99819	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	
88	91	4	5.78E-12	0.99847	CSCD300-PLG-LF	1E-T101	RA-MSLDV-1-2H	
89	92	4	5.78E-12	0.99861	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	
90	93	4	5.78E-12	0.99861	CSCD300-PLG-LF	1E-T101	RA-MSLDV-1-2H	
91	94	4	5.78E-12	0.99861	CSCD300-PLG-LF	1E-T102	RA-MSLDV-1-2H	

SEQUENCE 147

TOP EVENT CPO5B2-T-SEQ3CB CONTAINS 33 EVENTS IN 58 CUT SETS

THE FREQUENCY OF TOP EVENT CPO5B2-T-SEQ3CB IS 6.05E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPO5B2-T-SEQ3CB

N	300
MEAN	6.95E-08
STD DEV	7.55E-07
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.70E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL SUBSTITUTIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
= TEF - TEF(EVALUATED WITH  $EV(J) = 0$ )

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF - (TEF(EVALUATED WITH  $EV(J) = 1$ ) - TEF$

SEQUENCE 147

RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
CONT - LEAK	58	7.50E-01 ( 7.0)	6.05E-09 ( 1.5)	0.00E+00	1.70E-08
SUR-001-L	58	1.90E-01 ( 11.0)	6.05E-09 ( 1.5)	0.00E+00	1.70E-08
RA-1-3-27H	33	2.60E-03 ( 21.0)	3.57E-09 ( 3.0)	0.00E+00	1.16E-08
HACTK3-ROO-LFO	23	2.00E-02 ( 15.0)	3.00E-09 ( 4.0)	0.00E+00	8.52E-09
HACTK9-ROO-LFO	23	2.00E-02 ( 15.0)	2.99E-09 ( 5.0)	0.00E+00	8.39E-09
RA-1-1-27H	17	2.10E-03 ( 22.5)	2.47E-09 ( 6.0)	0.00E+00	6.76E-09
EE-MOC-1AS-AR-R	22	3.30E-01 ( 9.5)	2.08E-09 ( 7.0)		
EE-MOC-1AS-CB-R	22	3.30E-01 ( 9.5)	2.07E-09 ( 8.0)		
OPF115CDS-DE-BW	14	3.40E-01 ( 8.0)	1.90E-09 ( 9.0)	0.00E+00	4.56E-09
LAKY38RC-ROO-LFO	8	2.00E-02 ( 15.0)	1.50E-09 ( 10.5)	0.00E+00	4.77E-09
FLOW-RHR-B3	8	1.00E+00 ( 3.5)	1.50E-09 ( 10.5)		
LAKY8RCB-ROO-LFO	8	2.00E-02 ( 15.0)	1.22E-09 ( 12.5)	0.00E+00	3.36E-09
LAK188RB-ROO-LFO	8	2.00E-02 ( 15.0)	1.22E-09 ( 12.5)	0.00E+00	3.36E-09
LAK148RC-RCO-LFO	4	2.00E-02 ( 15.0)	9.78E-10 ( 15.0)	0.00E+00	2.96E-09
NOFLOW-SPC-BSK	4	1.00E+00 ( 3.5)	9.78E-10 ( 15.0)		
NOFLOW-CSS-B7A	4	1.00E+00 ( 3.5)	9.78E-10 ( 15.0)		
FLOW-RHR-A3	2	1.00E+00 ( 3.5)	5.04E-10 ( 17.5)		
LAKY3ARC-ROO-LFO	2	2.00E-02 ( 15.0)	5.04E-10 ( 17.5)	0.00E+00	1.43E-09
RHRH01BX-RTX-LFB	4	6.20E-03 ( 19.0)	3.03E-10 ( 19.0)	0.00E+00	4.69E-10
SCSF068B-DENER	4	1.00E+00 ( 3.5)	1.40E-10 ( 20.5)		
RHRC028B-P-UUM	4	3.00E-03 ( 20.0)	1.40E-11 ( 20.5)	0.00E+00	2.52E-10
CSCD300B-PLG-LF	12	1.20E-03 ( 25.5)	9.14E-11 ( 22.0)	0.00E+00	1.56E-10
HCSC001C-PMS-LF	8	1.10E-03 ( 27.5)	6.13E-11 ( 23.0)	0.00E+00	2.02E-10
RHRC028B-PMS-LF	4	1.10E-03 ( 27.5)	5.38E-11 ( 24.0)	0.00E+00	8.58E-11
CSCD300A-PLG-LF	2	1.20E-03 ( 25.5)	3.02E-11 ( 25.0)	0.00E+00	4.79E-11
EE-CSCD300A-PLG	2	7.20E-04 ( 29.0)	1.81E-11 ( 26.0)	0.00E+00	2.4E-11
RA-2-11-27H	2	1.60E-03 ( 24.0)	1.66E-11 ( 27.0)	0.00E+00	2.70E-11
RA-MSLDV-1-2H	6	2.10E-03 ( 22.5)	2.49E-12 ( 28.0)	0.00E+00	6.73E-12
HCSF015C-VCC-LF	2	5.00E-04 ( 30.5)	5.93E-13 ( 30.0)	0.00E+00	1.07E-12
HCSF004C-VCC-LF	2	5.00E-04 ( 30.5)	5.93E-13 ( 30.0)	0.00E+00	1.07E-12
EE-CST-LVL	2	1.00E+00 ( 3.5)	5.93E-13 ( 30.0)		

SEQUENCE 147

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RA-1-3-27H	33	2.60E-03 ( 21.0)	1.37E-06 ( 1.0)	0.00E+00	7.17E-06
RA-1-1-27H	17	2.10E-03 ( 22.5)	1.17E-06 ( 2.0)	0.00E+00	5.40E-06
RACTK3-ROO-LFO	23	2.00E-02 ( 15.0)	1.47E-07 ( 3.0)	0.00E+00	5.47E-07
RACTK9-ROO-LFO	23	2.00E-02 ( 15.0)	1.47E-07 ( 4.0)	0.00E+00	5.52E-07
CSCD300B-PLG-LF	12	1.20E-03 ( 25.5)	7.61E-08 ( 5.0)	0.00E+00	2.04E-07
LAK93BRC-ROO-LFO	8	2.00E-02 ( 15.0)	7.34E-08 ( 6.0)	0.00E+00	1.73E-07
LAK9BRCB-ROO-LFO	8	2.00E-02 ( 15.0)	5.97E-08 ( 7.5)	0.00E+00	2.55E-07
LAK188RB-ROO-LFO	8	2.00E-02 ( 15.0)	5.97E-08 ( 7.5)	0.00E+00	2.55E-07
HCSO01C-PMS-LF	8	1.10E-03 ( 27.5)	5.57E-08 ( 9.0)	0.00E+00	2.16E-07
RHRC02BB-PMS-LF	4	1.10E-03 ( 27.5)	4.89E-08 ( 10.0)	0.00E+00	1.02E-07
RHRH015X-HTX-LFB	4	6.20E-03 ( 17.0)	4.06E-08 ( 11.0)	0.00E+00	1.02E-07
LAK14BRC-RCD-LFO	4	2.00E-02 ( 15.0)	4.79E-08 ( 12.0)	0.00E+00	1.00E-07
RHRC02BB-P-UM	4	3.00E-03 ( 20.0)	4.64E-08 ( 13.0)	0.00E+00	1.59E-07
SUR-001-L	58	1.90E-01 ( 11.0)	2.58E-08 ( 14.0)	0.00E+00	1.35E-07
EE-CSCD300A-PLG	2	7.20E-04 ( 29.0)	2.52E-08 ( 15.0)	0.00E+00	5.66E-08
CSCD300A-PLG-LF	2	1.20E-03 ( 25.5)	2.52E-08 ( 16.0)	0.00E+00	5.66E-08
LAK93ARC-ROO-LFO	2	2.00E-02 ( 15.0)	2.47E-08 ( 17.0)	0.00E+00	5.30E-08
RA-2-11-27H	2	1.50E-03 ( 24.0)	1.03E-08 ( 18.0)	0.00E+00	3.47E-08
EE-MDC-1AS-AB-R	22	3.30E-01 ( 9.5)	4.22E-09 ( 19.0)		
EE-MDC-1AS-CB-R	22	3.30E-01 ( 9.5)	4.21E-09 ( 20.0)		
OPFAILSCDS-OE-8M	14	3.40E-01 ( 8.0)	3.69E-09 ( 21.0)	0.00E+00	1.07E-08
DMT-LEAK	58	7.50E-01 ( 7.0)	2.02E-09 ( 22.0)	0.00E+00	0.00E+00
HCSF015C-VCC-LF	2	5.00E-04 ( 30.5)	1.18E-09 ( 23.5)	0.00E+00	3.66E-09
HCSF004C-VCC-LF	2	5.00E-04 ( 30.5)	1.18E-09 ( 23.5)	0.00E+00	3.66E-09
RA-MSLDV-1-2H	6	2.10E-03 ( 22.5)	1.18E-09 ( 25.0)	0.00E+00	5.08E-09
SCSF068B-DENER	4	1.00E+00 ( 3.5)	0.00E+00 ( 28.5)		
NOFLOW-SPC-B5X	4	1.00E+00 ( 3.5)	0.00E+00 ( 28.5)		
NOFLOW-CSS-B7A	4	1.00E+00 ( 3.5)	0.00E+00 ( 28.5)		
EE-CST-LVL	2	1.00E+00 ( 3.5)	0.00E+00 ( 28.5)		
FLOW-RHR-B3	8	1.00E+00 ( 3.5)	0.00E+00 ( 28.5)		
FLOW-RHR-A3	2	1.00E+00 ( 3.5)	0.00E+00 ( 28.5)		

SEQUENCE 147  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY			
			OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*	
SUR-001-L	58	1.90E-01 ( 11.0)	55.8	( 1.0)	NA	2.22
HACTK3-R00-LFO	23	2.00E-02 ( 15.0)	15.8	( 5.0)	NA	1.83
LAK188RB-R00-LFO	8	2.00E-02 ( 15.0)	15.8	( 5.0)	NA	1.83
HACTK9-R00-LFO	23	2.00E-02 ( 15.0)	15.8	( 5.0)	NA	1.83
LAK93BRC-R00-LFO	8	2.00E-02 ( 15.0)	15.8	( 5.0)	NA	1.83
LAK93ARC-R00-LFO	2	2.00E-02 ( 15.0)	15.8	( 5.0)	NA	1.83
LAK98RCB-R00-LFO	8	2.00E-02 ( 15.0)	15.8	( 5.0)	NA	1.83
LAK14BRC-R00-LFO	4	2.00E-02 ( 15.0)	15.8	( 5.0)	NA	1.83
CONT-LEAK	58	7.50E-01 ( 7.0)	4.4	( 9.0)	NA	0.75
EE-CSCD300A-PLG	2	7.20E-04 ( 29.0)	2.4	( 10.0)	NA	1.00
RHRH01BK-RTX-LFB	4	6.20E-03 ( 19.0)	1.7	( 11.0)	NA	1.05
CSCD300B-PLG-LF	12	1.20E-03 ( 25.5)	0.9	( 12.5)	NA	1.00
CSCD300A-PLG-LF	2	1.20E-03 ( 25.5)	0.9	( 12.5)	NA	1.00
RA-MSLDV-1-2H	6	2.10E-03 ( 22.5)	0.9	( 14.5)	NA	1.37
RA-1-1-27H	17	2.10E-03 ( 22.5)	0.9	( 14.5)	NA	1.37
RA-1-3-27H	33	2.60E-03 ( 21.0)	0.9	( 16.0)	NA	1.45
RHRC02HB-P-LUM	4	3.00E-03 ( 20.0)	0.0	( 20.0)		
HCSF015C-VCC-LF	2	5.00E-04 ( 30.5)	0.0	( 20.0)		
HCSF004C-VCC-LF	2	5.00E-04 ( 30.5)	0.0	( 20.0)		
RA-2-11-27H	2	1.60E-03 ( 24.0)	0.0	( 20.0)		
HCSC001C-PMS-LF	8	1.10E-03 ( 27.5)	0.0	( 20.0)		
OPFAILSC05-DE-BM	14	3.40E-01 ( 8.0)	0.0	( 20.0)		
RHRC02BB-PMS-LF	4	1.10E-03 ( 27.5)	0.0	( 20.0)		
SCSF068B-DENER	4	1.00E+00 ( 3.5)				
EE-MDC-1AS-CB-R	22	3.30E-01 ( 9.5)				
EE-MDC-1AS-AB-R	22	3.30E-01 ( 9.5)				
NOFLOW-SPC-B5X	4	1.00E+00 ( 3.5)				
NOFLOW-CSS-B7A	4	1.00E+00 ( 3.5)				
TE-CST-LVL	2	1.00E+00 ( 3.5)				
FLOW-RHR-B3	8	1.00E+00 ( 3.5)				
FLOW-RHR-A3	2	1.00E+00 ( 3.5)				

SEQUENCE 147

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPO582-T-SEQ3CB WITH TOP EVENT FREQUENCY 6.05E-09

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	8	2.52E-10	0.04161	CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T101
3	2	8	2.52E-10	0.08322	LAK938RC-ROO-LFO	* OPFAILSCDS-DE-8M	* RA-1-3-27H	* SUR-001-L
4	2	8	2.52E-10	0.08322	CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	* IE-T102
5	4	8	2.52E-10	0.12484	LAK938RC-ROO-LFO	* OPFAILSCDS-DE-8M	* RA-1-3-27H	* SUR-001-L
6	4	8	2.52E-10	0.12484	CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	* IE-T102
7	3	8	2.52E-10	0.16645	LAK938RC-ROO-LFO	* OPFAILSCDS-DE-8M	* RA-1-3-27H	* SUR-001-L
8	3	8	2.52E-10	0.16645	CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101
9	10	8	2.45E-10	0.20684	LAK938RC-ROO-LFO	* OPFAILSCDS-DE-8M	* RA-1-3-27H	* SUR-001-L
10	12	8	2.45E-10	0.20684	CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO
11	11	8	2.45E-10	0.24723	IE-T101	* LAK938RC-ROO-LFO	* RA-1-3-27H	* SUR-001-L
12	9	8	2.45E-10	0.24723	CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO
13	13	8	2.45E-10	0.28761	IE-T101	* LAK938RC-ROO-LFO	* RA-1-3-27H	* SUR-001-L
14	10	9	2.45E-10	0.28761	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101
15	15	8	2.45E-10	0.32800	LAK148RC-ROO-LFO	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
16	16	8	2.45E-10	0.32800	SUR-001-L	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO
17	7	8	2.45E-10	0.32800	CONT-LEAK	* LAK938RC-ROO-LFO	* RA-1-3-27H	* SUR-001-L
18	18	8	2.45E-10	0.36839	IE-T101	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101
19	11	9	2.45E-10	0.36839	CONT-LEAK	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
20	20	8	2.45E-10	0.40878	LAK148RC-ROO-LFO	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO
21	8	8	2.45E-10	0.40878	SUR-001-L	* LAK938RC-ROO-LFO	* RA-1-3-27H	* SUR-001-L
22	8	8	2.45E-10	0.40878	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101
23	6	9	2.45E-10	0.44917	IE-T101	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
24	6	9	2.45E-10	0.44917	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101
25	5	9	2.45E-10	0.48956	LAK148RC-ROO-LFO	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
26	5	9	2.45E-10	0.48956	SUR-001-L	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101
27	5	9	2.45E-10	0.48956	CONT-LEAK	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
28	15	7	2.03E-10	0.52317	LAK148RC-ROO-LFO	* HACTK3-ROO-LFO	* LAK186RB-ROO-LFO	* LAK186RB-ROO-LFO
29	15	7	2.03E-10	0.52317	SUR-001-L	* RA-1-1-27H	* SUR-001-L	* LAK186RB-ROO-LFO
30	14	7	2.03E-10	0.55678	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK186RB-ROO-LFO
31	14	7	2.03E-10	0.55678	OPFAILSCDS-DE-8M	* RA-1-1-27H	* SUR-001-L	* LAK186RB-ROO-LFO
32	13	7	2.03E-10	0.59039	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK186RB-ROO-LFO
33	13	7	2.03E-10	0.59039	OPFAILSCDS-DE-8M	* HACTK9-ROO-LFO	* SUR-001-L	* LAK186RB-ROO-LFO
34	16	7	2.03E-10	0.62600	CONT-LEAK	* RA-1-1-27H	* IE-T101	* LAK186RB-ROO-LFO
35	16	7	2.03E-10	0.62600	OPFAILSCDS-DE-8M	* HACTK3-ROO-LFO	* IE-T101	* LAK186RB-ROO-LFO
36	24	7	1.98E-10	0.65662	CONT-LEAK	* RA-1-1-27H	* SUR-001-L	* IE-T101
37	24	7	1.98E-10	0.65662	OPFAILSCDS-DE-8M	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101
38	40	7	1.98E-10	0.68924	LAK98RCB-ROO-LFO	* RA-1-1-27H	* SUR-001-L	* IE-T101
39	40	7	1.98E-10	0.68924	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101
40	21	7	1.98E-10	0.72186	LAK186RB-ROO-LFO	* RA-1-1-27H	* SUR-001-L	* IE-T101
41	21	7	1.98E-10	0.72186	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101
42	43	7	1.98E-10	0.75448	LAK98RCB-ROO-LFO	* RA-1-1-27H	* SUR-001-L	* IE-T101
43	43	7	1.98E-10	0.75448	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101
44	20	7	1.98E-10	0.75448	LAK186RB-ROO-LFO	* RA-1-1-27H	* SUR-001-L	* IE-T101
45	20	7	1.98E-10	0.75448	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101

46	19	7	1.98E-10	0.78710	CONT-LEAK	EE-MDC-1AS-AB-R	EE-MDC-1AS-AB-R	HACTK3-ROO-LFO	1E-T101	*
47	23	7	1.98E-10	0.81972	LAK9BFCB-ROO-LFO	RA-1-1-27H	SUR-001-L	HACTK3-ROO-LFO	1E-T101	*
48	23	7	1.98E-10	0.81972	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
49	18	7	1.98E-10	0.85235	LAK18BFB-ROO-LFO	RA-1-1-27H	SUR-001-L	HACTK3-ROO-LFO	1E-T101	*
50	18	7	1.98E-10	0.85235	CONT-LEAK	EE-MDC-1AS-CB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
51	17	7	1.98E-10	0.88497	LAK18BFB-ROO-LFO	RA-1-1-27H	SUR-001-L	HACTK3-ROO-LFO	1E-T101	*
52	17	7	1.98E-10	0.88497	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
53	54	28	7	7.58E-11	0.89749	LAK9BFCB-ROO-LFO	RA-1-1-27H	SUR-001-L	1E-T101	*
54	28	7	7.58E-11	0.89749	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
55	55	27	7	7.58E-11	0.91001	RA-1-3-27H	RHR01BX-RTX-LFB	SUR-001-L	1E-T101	*
56	27	7	7.58E-11	0.91001	CONT-LEAK	EE-MDC-1AS-CB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
57	57	26	7	7.58E-11	0.92253	RA-1-3-27H	RHR01BX-RTX-LFB	SUR-001-L	1E-T101	*
58	26	7	7.58E-11	0.92253	CONT-LEAK	EE-MDC-1AS-CB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
59	59	25	7	7.58E-11	0.93505	RA-1-3-27H	RHR01BX-RTX-LFB	SUR-001-L	1E-T101	*
60	25	7	7.58E-11	0.93505	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
61	61	31	8	3.67E-11	0.94111	RA-1-3-27H	RHR01BX-RTX-LFB	SUR-001-L	1E-T101	*
62	31	8	3.67E-11	0.94111	CONT-LEAK	EE-MDC-1AS-CB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
63	63	30	8	3.67E-11	0.94716	RA-1-3-27H	RHR02BB-P-UJM	SCSF068B-DENER	SUR-001-L	*
64	30	8	3.67E-11	0.94716	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
65	65	29	8	3.67E-11	0.95322	RA-1-3-27H	RHR02BB-P-UJM	SCSF068B-DENER	SUR-001-L	*
66	29	8	3.67E-11	0.95322	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
67	67	32	8	2.96E-11	0.95812	RA-1-3-27H	RHR02BB-P-UJM	SCSF068B-DENER	SUR-001-L	*
68	32	8	2.96E-11	0.95812	CONT-LEAK	EE-MDC-1AS-CB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
69	69	36	7	1.51E-11	0.96061	RA-1-3-27H	RHR02BB-P-UJM	SCSF068B-DENER	SUR-001-L	*
70	36	7	1.51E-11	0.96061	CONT-LEAK	CSCD300A-PLG-LF	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T102	*
71	71	35	7	1.51E-11	0.96311	DPFALLSCDS-DE-BM	RA-1-3-27H	SUR-001-L	1E-T102	*
72	35	7	1.51E-11	0.96311	CONT-LEAK	CSCD300A-PLG-LF	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T102	*
73	73	34	7	1.51E-11	0.96561	DPFALLSCDS-DE-BM	RA-1-3-27H	SUR-001-L	1E-T101	*
74	34	7	1.51E-11	0.96561	CONT-LEAK	CSCD300B-PLG-LF	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
75	75	33	7	1.51E-11	0.96810	DPFALLSCDS-DE-BM	RA-1-3-27H	SUR-001-L	1E-T101	*
76	33	7	1.51E-11	0.96810	CONT-LEAK	CSCD300B-PLG-LF	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
77	77	40	7	1.47E-11	0.97053	DPFALLSCDS-DE-BM	RA-1-3-27H	SUR-001-L	HACTK9-ROO-LFO	*
78	40	7	1.47E-11	0.97053	CONT-LEAK	CSCD300B-PLG-LF	EE-MDC-1AS-AB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	*
79	79	39	7	1.47E-11	0.97295	1E-T101	SUR-001-L	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
80	39	7	1.47E-11	0.97295	CONT-LEAK	CSCD300B-PLG-LF	EE-MDC-1AS-AB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
81	81	38	7	1.47E-11	0.97537	1E-T101	SUR-001-L	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
82	38	7	1.47E-11	0.97537	CONT-LEAK	CSCD300B-PLG-LF	EE-MDC-1AS-CB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
83	83	37	7	1.47E-11	0.97780	1E-T101	SUR-001-L	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
84	37	7	1.47E-11	0.97780	CONT-LEAK	CSCD300B-PLG-LF	EE-MDC-1AS-CB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
85	85	44	7	1.34E-11	0.98002	1E-T101	SUR-001-L	HACTK9-ROO-LFO	HACTK9-ROO-LFO	*
86	44	7	1.34E-11	0.98002	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
87	87	43	7	1.34E-11	0.98224	RA-1-3-27H	RHR02BB-PMS-LF	SUR-001-L	1E-T101	*
88	43	7	1.34E-11	0.98224	CONT-LEAK	EE-MDC-1AS-AB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
89	89	42	7	1.34E-11	0.98446	RA-1-3-27H	RHR02BB-PMS-LF	SUR-001-L	1E-T101	*
90	42	7	1.34E-11	0.98446	CONT-LEAK	EE-MDC-1AS-CB-R	HACTK3-ROO-LFO	HACTK3-ROO-LFO	1E-T101	*
91	91	41	7	1.34E-11	0.98668	RA-1-3-27H	RHR02BB-PMS-LF	SUR-001-L	1E-T101	*
92	41	7	1.34E-11	0.98668	CONT-LEAK	EE-MDC-1AS-CB-R	HACTK9-ROO-LFO	HACTK9-ROO-LFO	1E-T101	*
93	93	48	7	1.09E-11	0.98848	RA-1-3-27H	RHR02BB-PMS-LF	SUR-001-L	1E-T101	*
94	48	7	1.09E-11	0.98848	CONT-LEAK	EE-MDC-1AS-CB-R	HCS001C-PMS-LF	HCS001C-PMS-LF	1E-T101	*
95	95	47	7	1.09E-11	0.99027	LAK9BFCB-ROO-LFO	RA-1-1-27H	SUR-001-L	1E-T101	*
96	47	7	1.09E-11	0.99027	CONT-LEAK	EE-MDC-1AS-AB-R	HCS001C-PMS-LF	HCS001C-PMS-LF	1E-T101	*
97	97				LAK18BFB-ROO-LFO	RA-1-1-27H	SUR-001-L	SUR-001-L	*	*

98	46	7	1.09E-11	0.99206	CONT-LEAK	** EE-MOC-IAS-CB-R	** HCSC001C-PMS-LF	** IE-T101
99					LAK18RB-R00-LFO	** RA-1-1-27H	** SUR-001-L	**
100	45	7	1.09E-11	0.99386	CONT-LEAK	** EE-MOC-IAS-AB-R	** HCSC001C-PMS-LF	** IE-T101
101					LAK9RCB-R00-LFO	** RA-1-1-27H	** SUR-001-L	**
102	50	7	9.07E-12	0.99536	CONT-LEAK	** EE-CSCD300A-PLG	** HACTK9-R00-LFO	** IE-T102
103					OPFAILSCDS-OE-0M	** RA-1-3-27H	** SUR-001-L	**
104	49	7	9.07E-12	0.99685	CONT-LEAK	** EE-CSCD300A-PLG	** HACTK3-R00-LFO	** IE-T102
105					OPFAILSCDS-OE-0M	** RA-1-3-27H	** SUR-001-L	**
106	52	8	8.28E-12	0.99822	CONT-LEAK	** EE-MOC-IAS-CB-R	** FLOW-RHR-B3	** HCSC001C-PMS-LF
107					IE-T101	** LAK93RC-R00-LFO	** RA-2-11-27H	** SUR-001-L
108	51	8	8.28E-12	0.99959	CONT-LEAK	** EE-MOC-IAS-AB-R	** FLOW-RHR-B3	** HCSC001C-PMS-LF
109					IE-T101	** LK93RC-R00-LFO	** RA-2-11-27H	** SUR-001-L
110	54	7	6.52E-13	0.99970	CONT-LEAK	** CSCD300B-PLG-LF	** EE-MOC-IAS-CB-R	** HCSC001C-PMS-LF
111					IE-T101	** RA-MSLDV-1-2H	** SUR-001-L	**
112	53	7	6.52E-13	0.99980	CONT-LEAK	** CSCD300B-PLG-LF	** EE-MOC-IAS-AB-R	** HCSC001C-PMS-LF
113					IE-T101	** RA-MSLDV-1-2H	** SUR-001-L	**
114	58	8	2.96E-13	0.99985	CONT-LEAK	** CSCD300B-PLG-LF	** EE-EST-LAL	** EE-MOC-IAS-CB-R
115					HCSP015C-VCC-LF	** IE-T101	** RA-MSLDV-1-2H	** SUR-001-L
116	57	7	2.96E-13	0.99990	CONT-LEAK	** CSCD300B-PLG-LF	** EE-MOC-IAS-CB-R	** HCSP004C-VCC-LF
117					IE-T101	** RA-MSLDV-1-2H	** SUR-001-L	**
118	56	8	2.96E-13	0.99995	CONT-LEAK	** CSCD300B-PLG-LF	** EE-EST-LVL	** EE-MOC-IAS-AB-R
119					CSF015C-VCC-LF	** IE-T101	** RA-MSLDV-1-2H	** SUR-001-L
120	55	7	2.96E-13	1.00000	CONT-LEAK	** CSCD300B-PLG-LF	** EC-MOC-IAS-AB-R	** HCSP004C-VCC-LF
121					IE-T101	** RA-MSLDV-1-2H	** SUR-001-L	**

TEMAC RUN TIME IN CPU SECONDS 32.54



SEQUENCE 749

TOP EVENT CP05B2-T-1.03CB CONTAINS 34 EVENTS IN 58 CUT SETS

THE FREQUENCY OF TOP EVENT CP05B2-T-SEQ3CB IS 1.49E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CP05B2-T-SEQ3CB

N	300
MEAN	1.06E-09
STD DEV	1.01E-06
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	7.31E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (1% YERMOIST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE 149  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB. (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5% UPPER 5%	
SUR-003-R	56	1.40E-02 ( 18.5)	1.30E-10 ( 1.0)	0.00E+00	6.79E-10
RA-1-3-27H	33	2.60E-03 ( 22.0)	8.76E-11 ( 2.0)	0.00E+00	3.25E-10
HACTK3-R00-LFO	23	2.00E-02 ( 14.0)	7.37E-11 ( 3.0)	0.00E+00	3.58E-10
HACTK9-R00-LFO	23	2.00E-02 ( 14.0)	7.35E-11 ( 4.0)	0.00E+00	3.58E-10
RA-1-1-27H	17	2.10E-03 ( 23.5)	6.06E-11 ( 5.0)	0.00E+00	3.67E-10
EE-MOC-1AS-AB-R	22	3.30E-01 ( 9.5)	5.11E-11 ( 6.0)		
EE-MOC-1AS-CB-R	22	3.30E-01 ( 9.5)	5.09E-11 ( 7.0)		
OPF011-STD5-DE-SM	14	3.40E-01 ( 8.0)	4.67E-11 ( 8.0)	0.00E+00	2.72E-10
FLOW-RHR-B3	8	1.00E+00 ( 3.5)	3.68E-11 ( 9.5)		
LAK936C-R00-LFO	8	2.00E-02 ( 14.0)	3.68E-11 ( 9.5)	0.00E+00	1.61E-10
LAK105R8-R00-LFO	8	2.00E-02 ( 14.0)	2.99E-11 ( 11.5)	0.00E+00	1.80E-10
LAK98PCB-R00-LFO	8	2.00E-02 ( 14.0)	2.99E-11 ( 11.5)	0.00E+00	1.80E-10
NOFLOW-SPC-B5X	4	1.00E+00 ( 3.5)	2.40E-11 ( 14.0)		
NOFLOW-LSS-B7A	4	1.00E+00 ( 3.5)	2.40E-11 ( 14.0)		
LAK148R2-600-LFO	4	2.00E-02 ( 14.0)	2.40E-11 ( 14.0)	0.00E+00	8.14E-11
FLOW-RHR-R3	2	1.00E+00 ( 3.5)	1.24E-11 ( 17.0)		
SUR-004-R	2	1.40E-02 ( 18.5)	1.24E-11 ( 17.0)	0.00E+00	3.65E-11
LAK93ARC-R00-LFO	2	2.00E-02 ( 14.0)	1.24E-11 ( 17.0)	0.00E+00	3.65E-11
RHR018X-RTX-LFB	4	6.20E-03 ( 20.0)	7.45E-12 ( 19.0)	0.00E+00	1.50E-11
SCSF068B-DENER	4	1.00E+00 ( 3.5)	3.43E-12 ( 20.5)		
RHR0288-P-UUM	4	3.00E-03 ( 21.0)	3.43E-12 ( 20.5)	0.00E+00	1.49E-11
CJDD300B-PLG-LF	12	1.20E-03 ( 26.5)	2.25E-11 ( 22.0)	0.00E+00	7.18E-12
HCS001C-PWS-LF	8	1.10E-03 ( 28.5)	1.51E-12 ( 23.0)	0.00E+00	7.06E-12
RHR0288-PWS-LF	4	1.10E-03 ( 28.5)	1.32E-12 ( 24.0)	0.00E+00	4.66E-12
CSD300A-PLG-LF	2	1.20E-03 ( 26.5)	7.43E-13 ( 25.0)	0.00E+00	1.67E-12
EE-CSD300A-PLG	2	7.20E-04 ( 30.0)	4.46E-13 ( 26.0)	0.00E+00	1.14E-12
RA-2-11-27H	2	1.60E-03 ( 25.0)	4.07E-13 ( 27.0)	0.00E+00	1.48E-12
RA-MS10V-1-2H	6	2.10E-03 ( 23.5)	6.11E-14 ( 28.0)	0.00E+00	4.06E-13
EE-CST-LVL	2	1.00E+00 ( 3.5)	1.46E-14 ( 30.0)		
HCSF015C-VCC-LF	2	5.00E-04 ( 31.5)	1.46E-14 ( 30.0)	0.00E+00	9.19E-14
HCSF004C-VCC-LF	2	5.00E-04 ( 31.5)	1.46E-14 ( 30.0)	0.00E+00	9.19E-14
CONT-LEAK	58	7.50E-01 ( 7.0)	-4.42E-10 ( 32.0)	0.00E+00	0.00E+00

SEQUENCE 149  
RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PRIB	(RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%	
RA-1-3-27H	33	2.60E-03	( 22.0)	3.36E-08	( 1.0)	0.00E+00	3.26E-07
RA-1-1-27H	17	2.10E-03	( 23.5)	2.80E-08	( 2.0)	0.00E+00	2.86E-07
SUR-003-R	56	1.40E-02	( 18.5)	9.60E-09	( 3.0)	0.00E+00	2.22E-08
HACTX3-ROO-LFO	23	2.00E-02	( 14.0)	3.31E-09	( 4.0)	0.00E+00	2.65E-08
HACTK9-ROO-LFO	23	2.00E-02	( 14.0)	3.60E-09	( 5.0)	0.00E+00	2.67E-08
CSCD300B-PLG-LF	12	1.20E-03	( 26.5)	1.87E-09	( 6.0)	0.00E+00	1.09E-08
LAK93BRC-ROO-LFO	6	2.00E-02	( 14.0)	1.80E-09	( 7.0)	0.00E+00	1.04E-08
LAK96RCB-ROO-LFO	8	2.00E-02	( 14.0)	1.47E-09	( 8.5)	0.00E+00	9.56E-09
LAK18B2B-ROO-LFO	8	2.00E-02	( 14.0)	1.47E-09	( 8.5)	0.00E+00	9.56E-09
HCS007C-PWG-LF	8	1.10E-03	( 28.5)	1.37E-09	( 10.0)	0.00E+00	1.08E-08
RHRC02B8-PWS-LF	4	1.10E-03	( 28.5)	1.20E-09	( 11.0)	0.00E+00	5.64E-09
RHRH01B1X-RTX-LFB	4	6.20E-03	( 20.0)	1.19E-09	( 12.0)	0.00E+00	5.63E-09
LAK1488C-RCO-LFO	4	2.90E-02	( 14.0)	1.18E-09	( 13.0)	0.00E+00	5.48E-09
RHRC02B8-P-UJM	4	3.00E-03	( 21.0)	1.14E-09	( 14.0)	0.00E+00	8.48E-09
SUR-004-R	2	1.40E-02	( 18.5)	8.72E-10	( 15.0)	0.00E+00	9.87E-10
EE-CSCD300A-PLG	2	7.20E-04	( 30.0)	6.18E-10	( 16.0)	0.00E+00	2.99E-09
CSCD307A-PLG-LF	2	1.20E-03	( 26.5)	6.18E-10	( 17.0)	0.00E+00	2.98E-09
LAK93ARC-ROO-LFO	2	2.00E-02	( 14.0)	6.06E-10	( 18.0)	0.00E+00	2.96E-09
RA-2-11-27H	2	1.60E-03	( 25.0)	2.54E-10	( 19.0)	0.00E+00	2.31E-09
EE-MOC-1AS-AB-R	22	3.30E-01	( 9.5)	1.04E-10	( 20.0)		
EE-MOC-1AS-CB-R	22	3.30E-01	( 9.5)	1.03E-10	( 21.0)		
OPFALLSCDS-OE-8M	14	3.60E-01	( 8.0)	9.06E-11	( 22.0)	0.00E+00	5.10E-10
HCSF015C-VCC-LF	2	5.00E-04	( 31.5)	2.91E-11	( 23.5)	0.00E+00	2.73E-10
HCSF004C-VCC-LF	2	5.00E-04	( 31.5)	2.91E-11	( 23.5)	0.00E+00	2.73E-10
RA-MSLOV-1-2H	6	2.10E-03	( 23.5)	2.90E-11	( 25.0)	0.00E+00	3.23E-10
SCSF068B-DENER	4	1.00E+00	( 3.5)	0.00E+00	( 28.5)		
NOFLOW-SPC-2JA	4	1.00E+00	( 3.5)	0.00E+00	( 28.5)		
NOFLOW-CSS-87A	4	1.00E+00	( 3.5)	0.00E+00	( 28.5)		
EE-CST-LVL	4	1.00E+00	( 3.5)	0.00E+00	( 28.5)		
FLOW-RRR-B3	8	1.00E+00	( 3.5)	0.00E+00	( 28.5)		
FLOW-RRR-A3	2	1.00E+00	( 3.5)	0.00E+00	( 28.5)		
CONT-LEAK	58	7.50E-01	( 7.0)	-1.49E-10	( 32.0)	-7.31E-10	0.00E+00

SEQUENCE 149  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y. 05/TE.05*	Y. 95/TE.95*
HACTK3-R00-LFO	23	2.00E-02	( 14.0)	17.8	( 4.0)	NA	2.74
LAKY3ARC-R00-LFO	2	2.00E-02	( 14.0)	17.8	( 4.0)	NA	2.74
LAK14BPC-R00-LFO	4	2.00E-02	( 14.0)	17.8	( 4.0)	NA	2.74
LAK18B8B-R00-LFO	8	2.00E-02	( 14.0)	17.8	( 4.0)	NA	2.74
LAKY9R6B-R00-LFO	8	2.00E-02	( 14.0)	17.8	( 4.0)	NA	2.74
HACTK9-R00-LFO	23	2.00E-02	( 14.0)	17.8	( 4.0)	NA	2.74
LAKY3BRC-R00-LFO	8	2.00E-02	( 14.0)	17.8	( 4.0)	NA	2.74
CSCD300A-PLG-LF	2	1.20E-03	( 26.5)	2.7	( 8.5)	NA	0.99
CSCD300B-PLG-LF	12	1.20E-03	( 26.5)	2.7	( 8.5)	NA	0.99
RA-1-3-27H	33	2.50E-03	( 22.0)	2.6	( 10.0)	NA	1.71
SUR-003-R	56	1.40E-02	( 18.5)	0.8	( 11.5)	NA	0.54
SUR-004-R	2	1.40E-02	( 18.5)	0.8	( 11.5)	NA	0.54
CONT-LEAK	58	7.50E-01	( 7.0)	0.0	( 13.0)	NA	0.54
RHRC028B-PWS-LF	4	1.10E-03	( 28.5)	0.0	( 19.0)	NA	0.54
WCSF015C-VCC-LF	2	5.00E-04	( 31.5)	0.0	( 19.0)	NA	0.54
RHRC028B-P-UJM	4	3.00E-03	( 21.0)	0.0	( 19.0)	NA	0.54
WCSF004C-VCC-LF	2	5.00E-04	( 31.5)	0.0	( 19.0)	NA	0.54
RA-2-11-27H	2	1.60E-03	( 25.0)	0.0	( *9.0)	NA	0.54
HCS001C-PWS-LF	8	1.10E-03	( 28.5)	0.0	( 19.0)	NA	0.54
RA-MSLDV-1-2H	6	2.10E-03	( 23.5)	0.0	( 19.0)	NA	0.54
RA-1-1-27H	17	2.10E-03	( 23.5)	0.0	( 19.0)	NA	0.54
OPFAILSCDS-DE-BN	14	3.40E-01	( 8.0)	0.0	( 19.0)	NA	0.54
EE-CSCD300A-PLG	2	7.20E-04	( 30.0)	0.0	( 19.0)	NA	0.54
RHR018X-RTX-LFB	4	6.20E-03	( 20.0)	0.0	( 19.0)	NA	0.54
SCSF068B-DENER	4	1.00E+00	( 3.5)	0.0	( 19.0)	NA	0.54
EE-WDC-IAS-CB-R	22	3.30E-01	( 9.5)	0.0	( 19.0)	NA	0.54
EE-WDC-IAS-AB-R	22	3.30E-01	( 9.5)	0.0	( 19.0)	NA	0.54
WOFLO-SPC-B5K	4	1.00E+00	( 3.5)	0.0	( 19.0)	NA	0.54
WOFLO-CSS-B7A	4	1.00E+00	( 3.5)	0.0	( 19.0)	NA	0.54
EE-CST-LVL	2	1.00E+00	( 3.5)	0.0	( 19.0)	NA	0.54
FLOW-RHR-B3	8	1.00E+00	( 3.5)	0.0	( 19.0)	NA	0.54
FLOW-RHR-A3	2	1.00E+00	( 3.5)	0.0	( 19.0)	NA	0.54

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT DPO5B2-1-SEQ3CB WITH TOP EVENT FREQUENCY 1.49E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	8	6.19E-12	0.04161	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* 1E-1101
3	2	8	6.19E-12	0.08322	LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* SUR-C03-R
4	4	8	6.19E-12	0.12484	/CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	* 1E-1102
5	6	8	6.19E-12	0.16645	LAK93ARC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* SUR-004-R
6	7	8	6.19E-12	0.20807	/CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	* 1E-1102
7	3	8	6.19E-12	0.24968	LAK93ARC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* SUR-004-R
8	9	8	6.19E-12	0.29130	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* 1E-1101
9	12	8	6.01E-12	0.33291	LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* SUR-003-R
10	11	8	6.01E-12	0.37453	/CONT-LEAK	* EE-MDC-IAS-AS-R	* FLOW-RHR-83	* HACTK9-ROO-LFO
11	12	8	6.01E-12	0.41614	1E-1101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-003-R
12	9	8	6.01E-12	0.45776	/CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-83	* HACTK9-ROO-LFO
13	13	8	6.01E-12	0.49937	1E-1101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-003-R
14	10	9	6.01E-12	0.54099	/CONT-LEAK	* EE-MDC-IAS-AS-R	* HACTK9-ROO-LFO	* 1E-1101
15	14	9	6.01E-12	0.58260	LAK14BRC-ROO-LFO	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
16	16	9	6.01E-12	0.62422	SUR-003-R	* EE-MDC-IAS-CB-R	* FLOW-RHR-83	* HACTK3-ROO-LFO
17	17	8	6.01E-12	0.66583	/CONT-LEAK	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-003-R
18	18	8	6.01E-12	0.70745	1E-1101	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-1101
19	19	9	6.01E-12	0.74906	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-1101
20	20	9	6.01E-12	0.79068	LAK14BRC-ROO-LFO	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
21	21	9	6.01E-12	0.83229	003-R	* EE-MDC-IAS-AB-R	* FLOW-RHR-83	* HACTK3-ROO-LFO
22	22	8	6.01E-12	0.87391	/CONT-LEAK	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-003-R
23	23	8	6.01E-12	0.91552	1E-1101	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-1101
24	24	9	6.01E-12	0.95714	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-1101
25	25	9	6.01E-12	0.99875	LAK14BRC-ROO-LFO	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
26	26	9	6.01E-12	1.04037	SUR-003-R	* EE-MDC-IAS-AB-R	* FLOW-RHR-83	* HACTK3-ROO-LFO
27	27	9	6.01E-12	1.08198	/CONT-LEAK	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* SUR-003-R
28	28	9	6.01E-12	1.12360	LAK14BRC-ROO-LFO	* NOFLOW-CSS-87A	* NOFLOW-SPC-85X	* RA-1-3-27H
29	29	9	6.01E-12	1.16521	SUR-003-R	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* 1E-1101
30	30	7	5.00E-12	0.48956	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1101	* LAK188RB-ROO-LFO
31	31	7	5.00E-12	0.53117	OPFAILSCDS-OE-8M	* RA-1-1-27H	* SUR-003-R	* LAK188RB-ROO-LFO
32	32	7	5.00E-12	0.57279	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	* LAK188RB-ROO-LFO
33	33	7	5.00E-12	0.61440	OPFAILSCDS-OE-8M	* RA-1-1-27H	* SUR-003-R	* LAK188RB-ROO-LFO
34	34	7	5.00E-12	0.65601	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-1101	* LAK188RB-ROO-LFO
35	35	7	5.00E-12	0.69763	OPFAILSCDS-OE-8M	* RA-1-1-27H	* SUR-003-R	* LAK188RB-ROO-LFO
36	36	7	5.00E-12	0.73924	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-1101	* LAK188RB-ROO-LFO
37	37	7	5.00E-12	0.78086	OPFAILSCDS-OE-8M	* RA-1-1-27H	* SUR-003-R	* LAK188RB-ROO-LFO
38	38	7	4.85E-12	0.82247	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-1101
39	39	7	4.85E-12	0.86408	LAK98RCB-ROO-LFO	* RA-1-1-27H	* SUR-003-R	* 1E-1101
40	40	7	4.85E-12	0.90569	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* 1E-1101
41	41	7	4.85E-12	0.94730	LAK188RB-ROO-LFO	* RA-1-1-27H	* SUR-003-R	* 1E-1101
42	42	7	4.85E-12	0.98891	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-1101
43	43	7	4.85E-12	1.03052	LAK98RCB-ROO-LFO	* RA-1-1-27H	* SUR-003-R	* 1E-1101
44	44	7	4.85E-12	1.07214	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-1101
45	45	7	4.85E-12	1.11375	LAK188RB-ROO-LFO	* RA-1-1-27H	* SUR-003-R	* 1E-1101

46	19	7	4.85E-12	0.38710	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T101
47	23	7	4.85E-12	0.81972	LAK98CB-ROO-LFO	**	RA-1-1-27H	**	SUR-003-R	**	1E-T101
48	23	7	4.85E-12	0.81972	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
49	18	7	4.85E-12	0.85235	LAK188B-ROO-LFO	**	RA-1-1-27H	**	SUR-003-R	**	1E-T101
50	18	7	4.85E-12	0.85235	/CONT-LEAK	**	EE-MDC-IAS-CB-R	**	HACTK3-ROO-LFO	**	1E-T101
51	17	7	4.85E-12	0.88477	LAK188B-ROO-LFO	**	RA-1-1-27H	**	SUR-003-R	**	1E-T101
52	17	7	4.85E-12	0.88477	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
53	28	7	1.86E-12	0.89749	LAK98CB-ROO-LFO	**	RA-1-1-27H	**	SUR-003-R	**	1E-T101
54	28	7	1.86E-12	0.89749	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T101
55	27	7	1.86E-12	0.91001	RA-1-3-27H	**	RHR018X-HTX-LFB	**	SUR-003-R	**	1E-T101
56	27	7	1.86E-12	0.91001	/CONT-LEAK	**	EE-MDC-IAS-CB-R	**	HACTK3-ROO-LFO	**	1E-T101
57	26	7	1.86E-12	0.92253	RA-1-3-27H	**	RHR018X-HTX-LFB	**	SUR-003-R	**	1E-T101
58	26	7	1.86E-12	0.92253	/CONT-LEAK	**	EE-MDC-IAS-CB-R	**	HACTK9-ROO-LFO	**	1E-T101
59	25	7	1.86E-12	0.93505	RA-1-3-27H	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
60	25	7	1.86E-12	0.93505	/CONT-LEAK	**	RHR018X-HTX-LFB	**	SUR-003-R	**	1E-T101
61	31	8	9.01E-13	0.94111	RA-1-3-27H	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T101
62	31	8	9.01E-13	0.94111	/CONT-LEAK	**	EE-MDC-IAS-CB-R	**	HACTK3-ROO-LFO	**	1E-T101
63	30	8	9.01E-13	0.94716	RA-1-3-27H	**	RHR028B-P-UJM	**	SCSF068B-DENER	**	1E-T101
64	30	8	9.01E-13	0.94716	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
65	29	8	9.01E-13	0.95322	RA-1-3-27H	**	RHR028B-P-UJM	**	SCSF068B-DENER	**	1E-T101
66	29	8	9.01E-13	0.95322	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T101
67	32	8	7.28E-13	0.95812	RA-1-1-27H	**	RHR028B-P-UJM	**	HACTK9-ROO-LFO	**	1E-T101
68	32	8	7.28E-13	0.95812	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
69	36	7	3.71E-13	0.96061	RA-1-3-27H	**	RHR028B-P-UJM	**	SCSF068B-DENER	**	1E-T101
70	36	7	3.71E-13	0.96061	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
71	35	7	3.71E-13	0.96311	OPTA115CDS-OE-8M	**	CSCD300A-PLG-LF	**	SUR-003-R	**	1E-T102
72	35	7	3.71E-13	0.96311	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T102
73	34	7	3.71E-13	0.96561	OPTA115CDS-OE-8M	**	RA-1-3-27H	**	SUR-003-R	**	1E-T101
74	34	7	3.71E-13	0.96561	/CONT-LEAK	**	CSCD300B-PLG-LF	**	HACTK9-ROO-LFO	**	1E-T101
75	33	7	3.71E-13	0.96810	OPTA115CDS-OE-8M	**	RA-1-3-27H	**	SUR-003-R	**	1E-T101
76	40	7	3.60E-13	0.97053	/CONT-LEAK	**	CSCD300B-PLG-LF	**	HACTK3-ROO-LFO	**	1E-T101
77	40	7	3.60E-13	0.97053	OPTA115CDS-OE-8M	**	RA-1-3-27H	**	SUR-003-R	**	1E-T101
78	39	7	3.60E-13	0.97295	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
79	39	7	3.60E-13	0.97295	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T101
80	38	7	3.60E-13	0.97537	1E-T101	**	CSCD300B-PLG-LF	**	EE-MDC-IAS-AB-R	**	1E-T101
81	38	7	3.60E-13	0.97537	/CONT-LEAK	**	RA-1-3-27H	**	SUR-003-R	**	1E-T101
82	37	7	3.60E-13	0.97780	1E-T101	**	CSCD300B-PLG-LF	**	EE-MDC-IAS-CB-R	**	1E-T101
83	37	7	3.60E-13	0.97780	/CONT-LEAK	**	RA-1-3-27H	**	SUR-003-R	**	1E-T101
84	44	7	3.30E-13	0.98002	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
85	44	7	3.30E-13	0.98002	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T101
86	43	7	3.30E-13	0.98224	RA-1-3-27H	**	RHR028B-PMS-LF	**	EE-MDC-IAS-AB-R	**	1E-T101
87	43	7	3.30E-13	0.98224	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK3-ROO-LFO	**	1E-T101
88	42	7	3.30E-13	0.98446	RA-1-3-27H	**	RHR028B-PMS-LF	**	SUR-003-R	**	1E-T101
89	42	7	3.30E-13	0.98446	/CONT-LEAK	**	EE-MDC-IAS-CB-R	**	HACTK3-ROO-LFO	**	1E-T101
90	41	7	3.30E-13	0.99660	RA-1-3-27H	**	RHR028B-PMS-LF	**	SUR-003-R	**	1E-T101
91	41	7	3.30E-13	0.99660	/CONT-LEAK	**	EE-MDC-IAS-CB-R	**	HACTK9-ROO-LFO	**	1E-T101
92	48	7	2.67E-13	0.98840	RA-1-3-27H	**	RHR028B-PMS-LF	**	SUR-003-R	**	1E-T101
93	48	7	2.67E-13	0.98840	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	HACTK9-ROO-LFO	**	1E-T101
94	47	7	2.67E-13	0.99027	LAK98CB-ROO-LFO	**	RA-1-1-27H	**	HCSC001C-PMS-LF	**	1E-T101
95	47	7	2.67E-13	0.99027	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	SUR-003-R	**	1E-T101
96	47	7	2.67E-13	0.99027	LAK188B-ROO-LFO	**	RA-1-1-27H	**	HCSC001C-PMS-LF	**	1E-T101
97	47	7	2.67E-13	0.99027	/CONT-LEAK	**	EE-MDC-IAS-AB-R	**	SUR-003-R	**	1E-T101

98	46	7	2.67E-13	0.99206	/CONT-LEAK	** EE-MDC-IAS-CB-R	** HCSC001C-PMS-LF	** 1E-T101	**
99					LAK18RB-R00-LFO	** RA-1-1-27H	** SUR-0	**	**
100	45	7	2.47E-13	0.99386	/CONT-LEAK	** EE-MDC-IAS-AB-R	** HCSC1	** 1E-T101	**
101					LAK98CR-R00-LFO	** RA-1-1-27H	** SUR-003-R	**	**
102	50	7	2.23E-13	0.99536	/CONT-LEAK	** EE-CSC0300A-PLG	** NACTK9-R00-LFO	** 1E-T102	**
103					OFFAILSDDS-DE-BW	** RA-1-3-27H	** SUR-003-R	**	**
104	49	7	2.44E-13	0.99685	/CONT-LEAK	** EE-CSC0300A-PLG	** HACTJ3-R00-LFO	** 1E-T102	**
105					OFFAILSDDS-DE-BW	** RA-1-3-27H	** SUR-003-R	**	**
106	52	8	2.03E-13	0.99822	/CONT-LEAK	** EE-MDC-IAS-CB-R	** FLOW-RHR-83	** HCSC001C-PMS-LF	**
107					1E-T101	** LAK93BRC-R00-LFO	** RA-2-11-27H	** SUR-003-R	**
108	51	8	2.03E-13	0.99959	/CONT-LEAK	** EE-MDC-IAS-AB-R	** FLOW-RHR-83	** HCSC001C-PMS-LF	**
109					1E-T101	** LAK93BRC-R00-LFO	** RA-2-11-27H	** SUR-003-R	**
110	54	7	1.60E-14	0.99970	/CONT-LEAK	** CSC0300B-PLG-LF	** EE-MDC-IAS-CB-R	** HCSC001C-PMS-LF	**
111					1E-T101	** RA-MSLDV-1-2H	** SUR-003-R	**	**
112	53	7	1.60E-14	0.99980	/CONT-LEAK	** CSC0300B-PLG-LF	** EE-MDC-IAS-AB-R	** HCSC001C-PMS-LF	**
113					1E-T101	** RA-MSLDV-1-2H	** SUR-003-R	**	**
114	58	8	7.28E-15	0.99985	/CONT-LEAK	** CSC0300B-PLG-LF	** EE-CST-LVL	**	**
115					HCSF015C-VCC-LF	** 1E-T101	** RA-MSLDV-1-2H	** EE-MDC-IAS-CB-R	**
116	57	7	7.28E-15	0.99990	/CONT-LEAK	** CSC0300B-PLG-LF	** EE-MDC-IAS-CB-R	** SUR-003-R	**
117					1E-T101	** RA-MSLDV-1-2H	** SUR-003-R	** HCSF004C-VCC-LF	**
118	56	8	7.27E-15	0.99995	/CONT-LEAK	** CSC0300B-PLG-LF	** EE-CST-LVL	**	**
119					HCSF015C-VCC-LF	** 1E-T101	** RA-MSLDV-1-2H	** EE-MDC-IAS-AB-R	**
120	55	7	7.28E-15	1.00000	/CONT-LEAK	** CSC0300B-PLG-LF	** EE-MDC-IAS-AB-R	** SUR-003-R	**
121					1E-T101	** RA-MSLDV-1-2H	** SUR-003-R	** HCSF004C-VCC-LF	**

TEMAC RUN TIME IN CPU SECONDS 32.54

SEQUENCE 150

TOP EVENT DFD05A2-T-SEQ3CA CONTAINS 42 EVENTS IN 70 CUT SETS

THE FREQUENCY OF TOP EVENT DFD05A2-T-SEQ3CA IS 2.81E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DFD05A2-T-SEQ3CA

N	300
MEAN	7.42E-08
STD DEV	4.93E-07
LOWER 5%	1.22E-10
LOWER 25%	8.47E-10
MEDIAN	4.24E-09
UPPER 25%	2.19E-09
UPPER 5%	1.79E-07

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF



SEQUENCE 150

RISK REDUCTION BY BASE EVENT (WITH ASSUMED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK			
				REDUCTION	(RANK)	LOWER 5% UPPER 5%	
EE-MSP-PSW-BC-R	19	3.30E-01	( 8.0)	1.42E-08	( 1.0)	1.42E-08	7.44E-08
RA-8-27H	47	3.20E-03	( 28.0)	1.39E-08	( 7.0)	9.95E-12	3.07E-08
RA-9-27H	39	4.00E-01	( 6.0)	1.02E-08	( 3.0)	7.05E-11	3.07E-08
RA-1-3-27H	10	2.60E-03	( 31.0)	8.65E-09	( 4.0)	6.37E-12	4.03E-08
RHR018X-HTX-LFB	16	6.20E-03	( 26.5)	7.20E-09	( 5.0)	1.9E-12	3.53E-08
MACTK9-ROO-LFO	7	2.00E-02	( 17.5)	7.10E-09	( 6.5)	4.81E-12	4.55E-08
MACTK3-ROO-LFO	7	2.00E-02	( 17.5)	7.10E-09	( 6.5)	4.81E-12	4.55E-08
RA-1-1-27H	13	2.10E-03	( 33.0)	5.57E-09	( 8.0)	3.07E-12	3.79E-08
1E4327N1-ROO-LFO	13	2.00E-02	( 17.5)	3.96E-09	( 9.5)	1.03E-12	1.35E-08
1E4327N2-ROO-LFO	13	2.00E-02	( 17.5)	3.96E-09	( 9.5)	1.03E-12	1.35E-08
RHR018X-HTX-LFB	10	6.20E-03	( 26.5)	3.88E-09	( 11.0)	5.95E-12	1.37E-08
DGD-GEN-LF-FTR	16	2.50E-02	( 11.0)	3.79E-09	( 12.0)	3.60E-12	1.63E-08
DG2B-GEN-LF-FTR	12	2.50E-02	( 11.0)	3.59E-09	( 13.0)	2.97E-12	1.34E-08
NOFLOW-5PC-B5X	2	1.00E+00	( 3.0)	3.43E-09	( 16.0)	7.02E-13	1.89E-08
LAK1488C-ROO-LFO	2	2.00E-02	( 17.5)	3.43E-09	( 16.0)	7.02E-13	1.89E-08
NOFLOW-CSS-B7A	2	1.00E+00	( 3.0)	3.43E-09	( 16.0)	7.02E-13	1.89E-08
FLOW-RHR-83	2	1.00E+00	( 3.0)	3.43E-09	( 16.0)	7.02E-13	1.89E-08
LAK938RC-ROO-LFO	2	2.00E-02	( 17.5)	3.43E-09	( 16.0)	7.02E-13	1.89E-08
LAK988CB-ROO-LFO	2	2.00E-02	( 17.5)	2.77E-09	( 19.5)	7.77E-13	1.90E-08
LAK1888B-ROO-LFO	2	2.00E-02	( 17.5)	2.77E-09	( 19.5)	7.77E-13	1.90E-08
AP040X2-ROO-LFO	6	2.00E-02	( 17.5)	2.49E-09	( 21.5)	1.95E-13	1.14E-08
AP039X2-ROO-LFO	6	2.00E-02	( 17.5)	2.49E-09	( 21.5)	1.95E-13	1.14E-08
DG2B-GEN-LF-FTR	9	1.90E-02	( 24.0)	2.35E-09	( 23.0)	4.32E-13	4.84E-09
DGD-GEN-LF-FTR	11	1.90E-02	( 24.0)	2.27E-09	( 24.0)	4.26E-13	4.45E-09
RHR028B-P-UUM	9	3.00E-03	( 29.5)	1.74E-09	( 25.5)	2.21E-12	5.37E-09
SCSF048B-DENER	9	1.00E+00	( 7.0)	1.74E-09	( 25.5)	2.21E-12	5.37E-09
DG2A-GEN-LF-FTR	4	2.50E-02	( 11.0)	1.60E-09	( 27.0)	5.86E-13	5.08E-09
RHR028B-P-UUM	7	3.00E-03	( 29.5)	1.23E-09	( 28.0)	4.55E-13	3.24E-09
DG2A-GEN-LF-FTR	4	1.90E-02	( 24.0)	1.22E-09	( 29.0)	7.35E-14	2.73E-09
RHR018B-ROO-LFO	5	2.50E-03	( 32.0)	7.91E-10	( 30.0)	2.32E-13	2.36E-09
CSCD300A-PLG-LF	4	1.20E-03	( 34.5)	5.90E-10	( 31.0)	1.68E-14	2.73E-09
CSCD300B-PLG-LF	11	1.20E-03	( 34.5)	2.36E-10	( 32.0)	3.78E-13	7.69E-10
CSCC002-PMS-LF	3	1.10E-03	( 36.5)	1.37E-11	( 33.0)	3.47E-14	3.53E-11
CSCD300-PLG-LF	3	5.80E-04	( 38.0)	7.23E-12	( 34.0)	3.03E-15	6.68E-11
EE-MDC-1AS-CB-R	2	3.30E-01	( 8.0)	6.99E-12	( 35.5)	1.16E-14	1.18E-11
EE-MDP-1AS-AB-R	2	3.30E-01	( 8.0)	6.99E-12	( 35.5)	1.16E-14	1.18E-11
HC-1-C-PMS-LF	1	1.10E-03	( 36.5)	4.57E-12	( 37.0)	2.08E-12	6.15E-12
EE-CST-LVL	1	1.00E+00	( 3.0)	2.08E-12	( 39.0)	2.45E-15	6.15E-12
RCSF015C-VCC-LF	1	5.00E-04	( 39.5)	2.08E-12	( 39.0)	2.45E-15	6.15E-12
HCSF004C-VCC-LF	1	5.00E-04	( 39.5)	2.08E-12	( 39.0)	2.45E-15	6.15E-12

SEQUENCE 150  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5% UPPER 5%	
RA-8-27H	47	3.20E-03 ( 28.0)	4.32E-06 ( 1.0)	3.75E-08	3.23E-05
RA-1-3-27H	10	2.69E-03 ( 31.0)	3.32E-06 ( 2.0)	1.03E-08	4.26E-05
RA-1-1-27H	13	2.10E-03 ( 33.0)	2.65E-06 ( 3.0)	7.41E-09	4.11E-05
RHR018X-HTX-LFB	16	6.20E-03 ( 26.5)	1.15E-06 ( 4.0)	1.27E-09	5.33E-06
RHR018X-HTX-LFB	10	6.20E-03 ( 26.5)	6.22E-07 ( 5.0)	5.11E-09	2.08E-06
RHR028B-P-UBM	9	3.00E-03 ( 29.5)	5.80E-07 ( 6.0)	4.72E-09	1.86E-06
CSCD300A-PLG-LF	4	1.20E-03 ( 34.5)	4.91E-07 ( 7.0)	2.99E-11	2.93E-06
RHR-028B-P-NDUUM	7	3.00E-03 ( 29.5)	4.09E-07 ( 8.0)	6.97E-10	1.55E-06
HACTK9-R00-LFO	7	2.00E-02 ( 17.5)	3.48E-07 ( 9.5)	4.71E-09	1.01E-06
HACTK3-R00-LFO	7	2.00E-02 ( 17.5)	3.48E-07 ( 9.5)	4.71E-09	1.01E-06
RHR018B-R00-CC	5	2.50E-03 ( 32.0)	3.16E-07 ( 11.0)	5.13E-10	1.38E-06
CSCD300B-PLG-LF	11	1.20E-03 ( 34.5)	1.96E-07 ( 12.0)	2.22E-09	5.18E-07
1E4327N-X-R00-LFO	13	2.00E-02 ( 17.5)	1.94E-07 ( 13.5)	2.76E-10	6.83E-07
1E4327N-Y-R00-LFO	13	2.00E-02 ( 17.5)	1.94E-07 ( 13.5)	2.76E-10	6.83E-07
LAK938RC-R00-LFO	2	2.00E-02 ( 17.5)	1.58E-07 ( 15.5)	6.53E-10	4.59E-07
LAK148RC-R00-LFO	2	2.00E-02 ( 17.5)	1.68E-07 ( 15.5)	6.53E-10	4.59E-07
DGD-GEN-LF-FTS	16	2.50E-02 ( 11.0)	1.48E-07 ( 17.0)	2.09E-10	4.05E-07
DG2B-GEN-LF-FTS	12	2.50E-02 ( 11.0)	1.40E-07 ( 18.0)	1.74E-10	3.91E-07
LAK988CB-R00-LFO	2	2.00E-02 ( 17.5)	1.36E-07 ( 19.5)	6.32E-10	3.67E-07
LAK188RB-R00-LFO	2	2.00E-02 ( 17.5)	1.36E-07 ( 19.5)	6.32E-10	3.67E-07
AP039X2-R00-LFO	6	2.00E-02 ( 17.5)	1.22E-07 ( 21.5)	7.26E-11	4.07E-07
AP040X2-R00-LFO	6	2.00E-02 ( 17.5)	1.22E-07 ( 21.5)	7.26E-11	4.07E-07
DG2B-GEN-LF-FTR	9	1.90E-02 ( 24.0)	1.22E-07 ( 21.5)	7.26E-11	4.07E-07
DGD-GEN-LF-FTR	11	1.90E-02 ( 24.0)	1.21E-07 ( 23.0)	1.73E-10	3.87E-07
DG2A-GEN-LF-FTR	4	1.90E-02 ( 24.0)	1.17E-07 ( 24.0)	1.69E-10	3.77E-07
EE-RDP-PSM-BIC-R	4	2.50E-02 ( 11.0)	6.28E-08 ( 25.0)	2.14E-11	1.73E-07
RA-9-27H	19	3.30E-01 ( 8.0)	6.24E-08 ( 26.0)	2.12E-11	1.67E-07
CSCD300A-PLG-LF	39	4.70E-01 ( 6.0)	2.88E-08 ( 27.0)	1.48E-11	6.88E-08
CsCC02-R-PLG-LF	3	5.80E-04 ( 38.0)	1.53E-08 ( 28.0)	8.25E-11	4.89E-08
HCSF015C-VCC-LF	3	1.10E-03 ( 36.5)	1.25E-08 ( 29.0)	8.25E-11	4.89E-08
HCSF015C-VCC-LF	1	5.00E-04 ( 39.5)	1.25E-08 ( 30.0)	8.25E-11	4.89E-08
HCSF015C-VCC-LF	1	5.00E-04 ( 39.5)	4.16E-09 ( 31.5)	2.75E-11	1.63E-08
HCS001C-PMS-LF	1	1.10E-03 ( 36.5)	4.16E-09 ( 31.5)	2.75E-11	1.63E-08
EE-MDC-IAS-CI-R	2	3.50E-01 ( 8.0)	4.15E-09 ( 33.0)	2.75E-11	1.63E-08
EE-MDC-IAS-AB-R	2	3.30E-01 ( 8.0)	1.42E-11 ( 34.5)	1.42E-11 ( 34.5)	1.42E-11 ( 34.5)
NOFL0M-5/C-BOX	2	1.00E+00 ( 3.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)
EE-CST-1-VL	1	1.00E+00 ( 3.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)
NOFL0M-CSS-B7A	2	1.00E+00 ( 3.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)
SCSF068B-C-NER	9	1.00E+00 ( 3.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)
FLOW-RHR-B5	2	1.00E+00 ( 3.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)	0.00E+00 ( 38.0)

SEQUENCE T50  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOW RISK	(RANK)		
AP040X2-R00-LFO	6	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
AP039X2-R00-LFO	6	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
LAK18BRB-R00-LFO	2	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
LAK93DRG-R00-LFO	2	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
LAK98RCB-R00-LFO	2	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
1E4327NY-R00-LFO	13	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
LAK148RC-R00-LFO	2	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
HACTK3-R00-LFO	7	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
1E4327NX-R00-LFO	13	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
HACTK9-R00-LFO	7	2.00E-02 ( 17.5)	55.4	( 5.5)	13.50	0.52
RA-8-27H	47	3.20E-03 ( 28.0)	11.9	( 11.0)	1.99	1.00
RHRH01AX-HTX-LFB	16	6.20E-03 ( 26.5)	6.0	( 12.5)	1.27	1.07
RHRH01BX-HTX-LFB	10	6.20E-03 ( 26.5)	6.0	( 12.5)	1.27	1.07
RA-1-3-27H	10	2.60E-03 ( 31.0)	4.1	( 14.0)	1.29	1.09
HCS001C-PMC-LF	1	1.10E-03 ( 36.5)	2.8	( 15.5)	1.03	1.00
CSC002-PMS-LF	3	1.10E-03 ( 36.5)	2.8	( 15.5)	1.03	1.00
RA-9-27H	39	4.00E-01 ( 6.0)	2.7	( 17.0)	1.06	1.06
DG2B-GEN-LF-FTS	12	2.50E-02 ( 11.0)	2.7	( 19.0)	1.12	0.84
DG2A-GEN-LF-FTS	4	2.50E-02 ( 11.0)	2.7	( 19.0)	1.12	0.84
DG0-GEN-LF-FTS	16	2.50E-02 ( 11.0)	2.7	( 19.0)	1.12	0.84
HCSF015C-VCC-LF	1	5.00E-04 ( 39.5)	2.5	( 21.5)	1.00	1.00
HCSF004C-VCC-LF	1	5.00E-04 ( 39.5)	2.5	( 21.5)	1.00	1.00
RA-1-1-27H	13	2.10E-03 ( 33.0)	2.0	( 23.0)	1.06	1.09
RHR01BB-BDC-CC	5	2.50E-03 ( 32.0)	1.6	( 24.0)	1.05	0.96
DG2B-GEN-LF-FTR	9	1.90E-02 ( 24.0)	1.5	( 26.0)	1.05	0.97
DG2A-GEN-LF-FTR	4	1.90E-02 ( 24.0)	1.5	( 26.0)	1.05	0.97
DG0-GEN-LF-FTR	11	1.90E-02 ( 24.0)	1.5	( 26.0)	1.05	0.97
CSC0300-PLG-LF	3	5.80E-04 ( 38.0)	1.3	( 28.0)	1.00	1.00
CSC0300A-PLG-LF	4	1.20E-03 ( 34.5)	1.1	( 29.5)	1.06	1.03
CSC0300B-PLG-LF	11	1.20E-03 ( 34.5)	1.1	( 29.5)	1.06	1.03
RHR02BB-P-UUM	9	3.00E-03 ( 29.5)	0.0	( 31.5)		
RHR02BB-P-NUUM	7	3.00E-03 ( 29.5)	0.0	( 31.5)		
NOFLOW-SPC-B5X	2	1.00E+00 ( 3.0)				
EE-CST-LVL	1	1.00E+00 ( 3.0)				
NOFLOW-CSS-B7A	2	1.00E+00 ( 3.0)				
SCSF06BB-DENER	9	1.00E+00 ( 3.0)				
FLOW-RHF-B5	2	1.00E+00 ( 3.0)				
EE-MDP-PSW-BC-k	19	3.30E-01 ( 8.0)				
EE-MDC-1AS-CB-R	2	3.30E-01 ( 8.0)				
EE-MDC-1AS-AB-R	2	3.30E-01 ( 8.0)				

SEQUENCE 150

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT DPO:AZ-1-SEG3CA WITH TOP EVENT FREQUENCY 2.81E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSS15.DMF)

2	4	6	1.72E-09	0.06111	EE-MOP-PSW-BC-R	FLOW-PWR-B3	HACTK3-ROO-LFO	1E-T101	
3					LAK938PC-ROO-LFO	PA-1-3-27H			
4	2	7	1.72E-09	0.12221	EE-MOP-PSW-BC-R	HACTK9-ROO-LFO	1E-T101	LAK148RC-ROO-LFO	
5					NOFLOW-CSS-B7A	NOFLOW-SPC-B5X	PA-1-3-27H		
6	1	6	1.72E-09	0.18332	EE-MOP-PSW-BC-R	FLOW-PWR-B3	HACTK9-ROO-LFO	1E-T101	
7					LAK938RC-ROO-LFO	RA-1-3-27H			
8	3	7	1.72E-09	0.24443	EE-MOP-PSW-BC-R	HACTK3-ROO-LFO	1E-T101	LAK148PC-ROO-LFO	
9					NOFLOW-CSS-B7A	NOFLOW-SPC-B5X	PA-1-3-27H		
10	5	5	1.39E-09	0.29378	EE-MOP-PSW-BC-R	HACTK9-ROO-LFO	1E-T101	LAK98RCB-ROO-LFO	
11					RA-1-1-27H				
12	8	5	1.39E-09	0.34314	EE-MOP-PSW-BC-R	HACTK3-ROO-LFO	1E-T101	LAK98RCB-V30-LFO	
13					RA-1-1-27H				
14	7	5	1.39E-09	0.39249	EE-MOP-PSW-BC-R	HACTK9-ROO-LFO	1E-T101	LAK188RB-ROO-LFO	
15					RA-1-1-27H				
16	6	5	1.39E-09	0.44185	EE-MOP-PSW-BC-R	HACTK3-ROO-LFO	1E-T101	LAK188RB-ROO-LFO	
17					RA-1-1-27H				
18	12	5	7.62E-10	0.46898	1E4327NK-ROO-LFO	AP040X2-ROO-LFO	1E-LOSP	RA-8-27H	
19					RHR01AK-RTX-LFB				
20	20	11	5	7.62E-10	0.49611	1E4327NK-ROO-LFO	AP039R2-ROO-LFO	1E-LOSP	RA-8-27H
21					RHR01AK-RTX-LFB				
22	21	9	5	7.62E-10	0.52324	1E4327NY-ROO-LFO	AP039R2-ROO-LFO	1E-LOSP	RA-8-27H
23					RHR01AK-RTX-LFB				
24	10	5	7.62E-10	0.55037	1E4327NY-ROO-LFO	AP040X2-ROO-LFO	1E-LOSP	RA-8-27H	
25					RHR01AK-RTX-LFB				
26	22	5	5.32E-10	0.56931	EE-MOP-PSW-BC-R	HACTK9-ROO-LFO	1E-T101	PA-1-3-27H	
27					RHR01BK-RTX-LFB				
28	21	5	5.32E-10	0.58825	EE-MOP-PSW-BC-R	HACTK3-ROO-LFO	1E-T101	RA-1-3-27H	
29					RHR01BK-RTX-LFB				
30	13	6	4.76E-10	0.60521	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	RA-8-27H	
31					RA-9-27H				
32	14	6	4.76E-10	0.62217	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	RA-8-27H	
33					RA-9-27H				
34	15	6	3.81E-10	0.63573	AP040X2-ROO-LFO	DG2B-GEN-LF-FTS	1E-LOSP	RA-8-27H	
35					RA-9-27H				
36	20	6	3.81E-10	0.64930	AP039R2-ROO-LFO	DG2B-GEN-LF-FTS	1E-LOSP	RA-8-27H	
37					RA-9-27H				
38	19	6	3.81E-10	0.66286	1E4327NY-ROO-LFO	RHR01AK-RTX-LFB	1E-LOSP	RA-8-27H	
39					RA-9-27H				
40	18	6	3.81E-10	0.67643	1E4327NY-ROO-LFO	DG2A-GEN-LF-FTS	1E-LOSP	RA-8-27H	
41					RA-9-27H				
42	16	6	3.81E-10	0.68999	1E4327NK-ROO-LFO	DG0-GEN-LF-FTS	1E-LOSP	RA-8-27H	
43					RA-9-27H				
44	17	6	3.81E-10	0.70356	1E4327NK-ROO-LFO	DG2A-GEN-LF-FTS	1E-LOSP	RA-8-27H	
45					RA-9-27H				

66	26	6	3.62E-10	0.71644	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	* <A-8-27H	*
47	25	6	3.62E-10	0.72933	RA-9-27H	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*
48	24	6	3.62E-10	0.74222	DG2A-GEN-LF-FTS	RHRH01AX-HTX-LFB	IE-LOSP	* RA-8-27H	*
49	23	6	3.62E-10	0.75510	RA-9-27H	DG2B-GEN-LF-FTS	IE-LOSP	* RA-8-27H	*
50	30	6	2.90E-10	0.76541	DG0-GEN-LF-FTR	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*
51	29	6	2.90E-10	0.77572	RA-9-27H	DG2B-GEN-LF-FTS	IE-LOSP	* RA-8-27H	*
52	28	6	2.90E-10	0.78603	DG2A-GEN-LF-FTR	RHRH01AX-HTX-LFB	IE-LOSP	* RA-8-27H	*
53	31	6	2.90E-10	0.79634	RA-9-27H	DG2B-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
54	27	6	2.90E-10	0.80665	TE4327NX-ROO-LFO	DG0-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
55	32	6	2.90E-10	0.81696	RA-9-27H	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*
56	34	6	2.75E-10	0.82675	TE4327NY-ROO-LFO	DG2A-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
57	33	6	2.75E-10	0.83655	RA-9-27H	RHRH01AX-HTX-LFB	IE-LOSP	* RA-8-27H	*
58	42	6	2.57E-10	0.84571	AP040X2-ROO-LFO	DG2B-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
59	43	6	2.57E-10	0.85488	RA-9-27H	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*
60	36	6	2.30E-10	0.86308	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
61	35	7	2.30E-10	0.87129	RA-9-27H	RHRH01AX-HTX-LFB	IE-LOSP	* RA-8-27H	*
62	37	6	1.92E-10	0.87612	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
63	41	7	1.84E-10	0.88469	RA-9-27H	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*
64	40	6	1.84E-10	0.89125	EE-MOP-PSM-BC-R	HACTK9-ROO-LFO	IE-T101	* RA-1-3-27H	*
65	39	6	1.84E-10	0.89782	RHRH01BX-HTX-LFB	RHRH01AX-HTX-LFB	IE-T101	* RA-1-3-27H	*
66	38	7	1.84E-10	0.90638	RA-9-27H	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*
67	47	6	1.75E-10	0.91061	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
68	46	7	1.75E-10	0.91685	RA-9-27H	RHRH01AX-HTX-LFB	IE-LOSP	* RA-8-27H	*
69	45	7	1.75E-10	0.92309	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
70	44	6	1.75E-10	0.92932	RA-9-27H	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*
71	49	6	1.54E-10	0.93479	TE4327NY-ROO-LFO	DG0-GEN-LF-FTR	IE-LOSP	* RA-8-27H	*
72	97				RA-9-27H	RHRH01BX-HTX-LFB	IE-LOSP	* RA-8-27H	*

98	48	6	1.54E-10	0.91026	1E4327NX-R00-LFO	DIG-GEN-LF-FTS	IE-LOSP	RA-B-27H	*
99					RA-9-27H	RHRB0188-800-CC			*
100	53	5	1.47E-10	0.94551	1E4327NY-R00-LFO	AP040X2-R00-LFO	CSCD300A-PLG-LF	IE-LOSP	*
101					RA-8-27H				*
102	52	3	1.47E-10	0.95076	1E4327MX-R00-LFO	AP040X2-R00-LFO	CSCD300A-PLG-LF	IE-LOSP	*
103					RA-8-27H				*
104	51	5	1.47E-10	0.95601	1E4327NY-R00-LFO	AP039X2-R00-LFO	CSCD300A-PLG-LF	IE-LOSP	*
105					RA-8-27H				*
106	50	5	1.47E-10	0.96126	1E4327XA-R00-LFO	AP039X2-R00-LFO	CSCD300A-PLG-LF	IE-LOSP	*
107					RA-8-27H				*
108	55	6	1.46E-10	0.96646	DG0-GEN-LF-FTS	DG28-GEN-LF-FTR	IE-LOSP	RA-B-27H	*
109					RA-9-27H	RHRB0188-800-CC			*
110	54	6	1.46E-10	0.97166	DG0-GEN-LF-FTR	DG28-GEN-LF-FTS	IE-LOSP	RA-B-27H	*
111					RA-9-27H	RHRB0188-800-CC			*
112	59	6	1.40E-10	0.97665	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-B-27H	*
113					RA-9-27H	RHRB0288-P-NDUM			*
114	58	6	1.40E-10	0.98163	1E4327NX-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-B-27H	*
115					RA-9-27H	RHRB0288-P-NDUM			*
116	57	7	1.40E-10	0.98662	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-B-27H	*
117					RA-9-27H	RHRB0288-P-NDUM			*
118	56	7	1.40E-10	0.99161	1E4327NX-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-B-27H	*
119					RA-9-27H	RHRB0288-P-NDUM			*
120	61	5	1.03E-10	0.99528	CSCD300B-PLG-LF	EE-MOP-PSW-BC-R	HACTK9-R00-LFO	IE-T101	*
121					RA-1-3-27H				*
122	60	5	1.03E-10	0.99894	CSCD300P-PLG-LF	EE-MOP-PSW-BC-R	HACTK3-R00-LFO	IE-T101	*
123					RA-1-3-27H				*
124	62	5	4.57E-12	0.99911	CSCD300B-PLG-LF	EE-MOP-PSW-BC-R	HCS001C-PMS-LF	IE-T101	*
125					RA-1-1-27H				*
126	63	5	4.57E-12	0.99927	CSCD02-PMS-L*	CSCD300B-PLG-LF	EE-MDC-IAS-AB-R	IE-T101	*
127					RA-1-1-27H				*
128	65	5	4.57E-12	0.99943	CSCD02-PMS-LF	CSCD300B-PLG-LF	EE-MDC-IAS-CB-R	IE-T101	*
129					RA-1-1-27H				*
130	64	5	4.57E-12	0.99959	CSCD02-PMS-LF	CSCD300B-PLG-LF	EE-MOP-PSW-BC-R	IE-T101	*
131					RA-1-1-27H				*
132	68	5	2.41E-12	0.99968	CSC100-LG-LF	CSCD300B-PLG-LF	EE-MDC-IAS-CB-R	IE-T101	*
133					RA-1-1-27H				*
134	67	5	2.41E-12	0.99977	CSCD30-L-PLG-LF	CSCD300B-PLG-LF	EE-MOP-PSW-BC-R	IE-T101	*
135					RA-1-1-27H				*
136	66	5	2.41E-12	0.99985	CSCD100-PLG-LF	CSCD300B-PLG-LF	EE-MDC-IAS-AB-R	IE-T101	*
137					RA-1-1-27H				*
138	70	6	2.08E-12	0.99993	CSCD300B-PLG-LF	EE-CST-LVL	EE-MOP-PSW-BC-R	HCSF015C-VCC-LF	*
139					IE-T101	RA-1-1-27H			*
140	69	5	2.08E-12	1.00000	CSCD300B-PLG-LF	EE-MOP-PSW-BC-R	HCSF004C-VCC-L*	IE-T101	*
141					RA-1-1-27H				*

TEMAC RUN TIME IN CPU SECONDS 44.97

SEQUENCE 156

TOP EVENT CPD5B2-T-SEQ30B CONTAINS 11 EVENTS IN 8 CUT SETS  
THE FREQUENCY OF TOP EVENT CPD5B2-T-SEQ30B IS 8.35E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPD5B2-T-SEQ30B

N	300
MEAN	1.59E-08
STD DEV	2.57E-07
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	2.20E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

J = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE 156  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	PROB (RANK)	RISK			
				REDUCTION (RANK)	LOWER 5%	UPPER 5%	
RA-1-1-23H	8	2.10E-03	( 8.0)	8.36E-10	( 2.5)	0.00E+00	2.20E-09
OP-FAILSCDS-OE-DM	8	3.40E-01	( 2.0)	8.36E-10	( 2.5)	0.00E+00	2.20E-09
SUK-001-L	8	1.90E-01	( 3.0)	8.36E-10	( 2.5)	0.00E+00	2.20E-09
CON1-LEAK	8	7.50E-01	( 1.0)	8.36E-10	( 2.5)	0.00E+00	2.20E-09
LAK1BARA-100-LFO	4	2.00E-02	( 5.5)	4.18E-10	( 5.5)	0.00E+00	1.10E-09
LAKPARCA-100-LFO	4	2.00E-02	( 5.5)	4.18E-10	( 5.5)	0.00E+00	1.10E-09
HACTK9-ROO-LFO	2	2.00E-02	( 5.5)	4.07E-10	( 7.5)	0.00E+00	1.08E-09
HACTK3-ROO-LFO	2	2.00E-02	( 5.5)	4.07E-10	( 7.5)	0.00E+00	1.08E-09
HACTCP2-FUS-LF	2	5.40E-04	( 9.5)	1.10E-11	( 9.5)	0.00E+00	1.78E-11
HACTCP1-FUS-LF	2	5.40E-04	( 9.5)	1.10E-11	( 9.5)	0.00E+00	1.78E-11



SEQUENCE T56

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RA-1-1-23H	8	2.10E-03 ( 8.0)	3.97E-07 ( 1.0)	0.00E+00	1.93E-06
LAK18AKA-R00-LFO	4	2.00E-02 ( 5.5)	2.05E-08 ( 2.5)	0.00E+00	7.88E-08
LAK9ARCA-R00-LFO	4	2.00E-02 ( 5.5)	2.05E-08 ( 2.5)	0.00E+00	7.88E-08
HACTCPF2-FUS-LF	2	5.40E-04 ( 9.5)	2.03E-08 ( 4.5)	0.00E+00	7.96E-08
HACTCPF1-FUS-LF	2	5.40E-04 ( 9.5)	2.03E-08 ( 4.5)	0.00E+00	7.96E-08
HACTK9-R00-LFO	2	2.00E-02 ( 5.5)	1.99E-08 ( 6.5)	0.00E+00	7.81E-08
HACTK3-R00-LFO	2	2.00E-02 ( 5.5)	1.99E-08 ( 6.5)	0.00E+00	7.81E-08
SUR-001-L	8	1.90E-01 ( 3.0)	3.56E-09 ( 8.0)	0.00E+00	2.44E-08
OPFALSCDS-OE-0M	8	3.40E-01 ( 2.0)	1.62E-09 ( 9.0)	0.00E+00	4.78E-09
CONT-LEAK	8	7.50E-01 ( 1.0)	2.79E-10 ( 10.0)	0.00E+00	0.00E+00

SEQUENCE T56  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
 -----

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY			Y.05/TE.05*	Y.95/TE.95*
				DF	LOG RISK	(RANK)		
LAKTSARA-ROO-LFO	4	2.00E-02	( 5.5)	25.3	( 2.5)	NA	1.89	
HACTK9-ROO-LFO	2	2.00E-02	( 5.5)	25.3	( 2.5)	NA	1.89	
HACTK3-ROO-LFO	2	2.00E-02	( 5.5)	25.3	( 2.5)	NA	1.89	
LAKVARCA-ROO-LFO	4	2.00E-02	( 5.5)	25.3	( 2.5)	NA	1.89	
SUR-001-L	8	1.90E-01	( 3.0)	8.8	( 5.0)	NA	2.95	
RA-1-1-23H	8	2.10E-03	( 8.0)	7.2	( 6.0)	NA	1.84	
OPFAILSCDS-OE-0M	6	3.40E-01	( 2.0)	0.9	( 7.0)	NA	0.92	
CONT-LEAK	8	7.50E-01	( 1.0)	0.7	( 8.0)	NA	0.75	
HACTCPF2-FUS-LF	2	5.40E-04	( 9.5)	0.0	( 9.5)			
HACTCPF1-FUS-LF	2	5.40E-04	( 9.5)	0.0	( 9.5)			

SEQUENCE 156

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CP0582-1-SE030B WITH TOP EVENT FREQUENCY B.36E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	4	7	2.03E-10	0.24343	CONT-LEAK	* HACTK3-R00-LFO	* IE-T102	* LAK9ARCA-R00-LFO *
3					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *
4	3	7	2.03E-10	0.48685	CONT-LEAK	* HACTK3-R00-LFO	* IE-T102	* LAK10ARA-R00-LFO *
5					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *
6	2	7	2.03E-10	0.73028	CONT-LEAK	* HACTK9-A00-LFO	* IE-T102	* LAK10ARA-R00-LFO *
7					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *
8	1	7	2.03E-10	0.97371	CONT-LEAK	* HACTK9-R00-LFO	* IE-T102	* LAK9ARCA-R00-LFO *
9					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *
10	6	7	5.49E-12	0.98028	CONT-LEAK	* HACTCP1-FUS-LF	* IE-T102	* LAKPARCA-R00-LFO *
11					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *
12	7	7	5.49E-12	0.98685	CONT-LEAK	* HACTCP2-FUS-LF	* IE-T102	* LAK10ARA-R00-LFO *
13					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *
14	5	7	5.49E-12	0.99343	CONT-LEAK	* HACTCP2-FUS-LF	* IE-T102	* LAK9ARCA-R00-LFO *
15					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *
16	8	7	5.49E-12	1.00000	CONT-LEAK	* RA TCPF1-FUS-LF	* IE-T102	* LAK10ARA-R00-LFO *
17					OPFAILSCDS-OE-0M	* RA-1-1-23H	* SUR-001-L	* *

TEMAC RUN TIME IN CPU SECONDS 15.49

SEQUENCE 158

TOP EVENT CP0582-T-SEQ308 CONTAINS 11 EVENTS IN 8 CUT SETS

THE FREQUENCY OF TOP EVENT CP0582-T-SEQ308 IS 2.05E-11

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CP0582-T-SEQ308

N	300
MEAN	1.50E-10
STD DEV	1.78E-09
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.06E+00
UPPER 25%	0.00E+00
UPPER 5%	1.03E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE T58  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	UCLUR	PROB	PROB (RANK)	RISK		
				REDUCTION (RANK)	LOWER 5%	UPPER 5%
RA-1-1-23H	8	2.10E-03	8.0	2.05E-11 ( 2.0)	0.00E+00	1.03E-10
SUR-001-R	8	1.40E-02	7.0	2.05E-11 ( 2.0)	0.00E+00	1.03E-10
OPFALSDDS-OE-BM	8	3.40E-01	2.0	2.05E-11 ( 2.0)	0.00E+00	1.03E-10
LAK1BARA-ROO-LFO	4	2.00E-02	4.5	1.03E-11 ( 6.5)	0.00E+00	5.17E-11
LAK9ARCA-ROO-LFO	4	2.00E-02	4.5	1.03E-11 ( 4.5)	0.00E+00	5.17E-11
HACTK9-ROO-LFO	2	2.00E-02	4.5	1.00E-11 ( 6.5)	0.00E+00	5.09E-11
HACTK3-ROO-LFO	2	2.00E-02	4.5	1.00E-11 ( 6.5)	0.00E+00	5.09E-11
HACTCP2-FUS-LF	2	5.40E-04	9.5	2.70E-13 ( 8.5)	0.00E+00	5.78E-13
HACTCP1-FUS-LF	2	5.40E-04	9.5	2.70E-13 ( 8.5)	0.00E+00	5.78E-13
CONT-LEAK	8	7.50E-01	1.0	-6.16E-11 ( 10.0)	0.00E+00	0.00E+00

SEQUENCE T58  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (R <sub>INC</sub> )	LOWER 5%	UPPER 5%
RA-1-1-23H	8	2.10E-03 ( 6.0)	9.76E-09 ( 1.0)	0.00E+00	1.01E-07
SLUR-001-R	8	1.40E-02 ( 7.0)	1.45E-09 ( 2.0)	0.00E+00	2.64E-09
LAK1BARA-ROO-LFO	4	2.00E-02 ( 4.5)	5.33E-10 ( 3.5)	0.00E+00	3.27E-09
LAK9ARCA-ROO-LFO	4	2.00E-02 ( 4.5)	5.03E-10 ( 3.5)	0.00E+00	3.27E-09
HACTCP2-FUS-LF	2	5.40E-04 ( 9.5)	5.00E-10 ( 5.5)	0.00E+00	3.44E-09
HACTCP1-FUS-LF	2	5.40E-04 ( 9.5)	5.00E-10 ( 5.5)	0.00E+00	3.44E-09
HACTK9-ROO-LFO	2	2.00E-02 ( 4.5)	4.90E-10 ( 7.5)	0.00E+00	3.12E-09
HACTK3-ROO-LFO	2	2.00E-02 ( 4.5)	4.90E-10 ( 7.5)	0.00E+00	3.12E-09
OPFAILSCDS-0E-8M	8	3.40E-01 ( 2.0)	3.99E-11 ( 9.0)	0.00E+00	1.72E-10
CONT-LEAK	8	7.50E-01 ( 1.0)	-2.05E-11 ( 10.0)	-1.03E-10	0.00E+00

SEQUENCE T58  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
CONT-LEAK	8	7.50E-01 ( 1.0)	26.1	( 1.0)	NA	0.25
LAK1BARA-ROO-LFO	4	2.00E-02 ( 4.5)	11.2	( 3.5)	NA	2.02
HACTK3-ROO-LFO	2	2.00E-02 ( 4.5)	11.2	( 3.5)	NA	2.02
HACTK9-ROO-LFO	2	2.00E-02 ( 4.5)	11.2	( 3.5)	NA	2.02
LAK9ARCA-ROO-LFO	4	2.00E-02 ( 4.5)	11.2	( 3.5)	NA	2.02
OPFAILSCDS-OE-8M	8	3.40E-01 ( 2.0)	1.5	( 6.0)	NA	1.00
RA-1-1-23H	8	2.10E-03 ( 8.0)	1.4	( 7.0)	NA	2.08
SUR-001-R	8	1.40E-02 ( 7.0)	0.3	( 8.0)	NA	0.38
HACTCPF2-FUS-LF	2	5.40E-04 ( 9.5)	0.0	( 9.5)		
HACTCPF1-FUS-LF	2	5.40E-04 ( 9.5)	0.0	( 9.5)		

SEQUENCE T58

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-T-SEQ308 WITH TOP EVENT FREQUENCY 2.05E-11

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	4	7	5.00E-12	0.24343	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK9ARCA-ROO-LFO *
3					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK1BARA-ROO-LFO *
4	3	7	5.00E-12	0.48685	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	* LAK1BARA-ROO-LFO *
5					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK1BARA-ROO-LFO *
6	2	7	5.00E-12	0.73028	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LAK1BARA-ROO-LFO *
7					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK1BARA-ROO-LFO *
8	1	7	5.00E-12	0.97371	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	* LAK9ARCA-ROO-LFO *
9					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK9ARCA-ROO-LFO *
10	6	7	1.35E-13	0.98028	/CONT-LEAK	* HACTCPF1-FUS-LF	* 1E-T102	* LAK9ARCA-ROO-LFO *
11					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK9ARCA-ROO-LFO *
12	7	7	1.35E-13	0.98685	/CONT-LEAK	* HACTCPF2-FUS-LF	* 1E-T102	* LAK1BARA-ROO-LFO *
13					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK1BARA-ROO-LFO *
14	5	7	1.35E-13	0.99343	/CONT-LEAK	* HACTCPF2-FUS-LF	* 1E-T102	* LAK9ARCA-ROO-LFO *
15					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK9ARCA-ROO-LFO *
16	8	7	1.35E-13	1.00000	/CONT-LEAK	* HACTCPF1-FUS-LF	* 1E-T102	* LAK1BARA-ROO-LFO *
17					OPFAILSCDS-OE-BM	* RA-1-1-23H	* SUR-001-R	+ LAK1BARA-ROO-LFO *

TEMAC RUN TIME IN CPU SECONDS 16.47



SEQUENCE 159

TOP EVENT DPOSA2-T-SEQ3DA CONTAINS 17 EVENTS IN 56 CUT SETS

THE FREQUENCY OF TOP EVENT DPOSA2-T-SEQ3DA IS 1.35E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DPOSA2-T-SEQ3DA

N	300
MEAN	1.58E-08
STD DEV	7.30E-08
LOWER 5%	1.45E-11
LOWER 25%	1.62E-10
MEDIAN	1.26E-09
UPPER 25%	5.87E-09
UPPER 5%	5.79E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

## SEQUENCE T59

## RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RA-B-23H	56	4.50E-03 ( 11.0)	1.35E-08 ( 1.0)	1.45E-11	5.79E-08
RA-9-23H	48	4.10E-01 ( 2.0)	1.06E-08 ( 2.0)	1.28E-11	3.87E-08
RHRC02AA-P-UUM	16	3.00E-03 ( 12.5)	4.97E-09 ( 3.5)	1.57E-12	2.09E-08
SCSF06AA-DENER	16	1.00E+00 ( 1.0)	4.97E-09 ( 3.5)		
DG2A-GEN-LF-FTS	16	2.50E-02 ( 3.5)	4.09E-09 ( 5.5)	7.08E-12	1.91E-08
DG2B-GEN-LF-FTS	16	2.50E-02 ( 3.5)	4.09E-09 ( 5.5)	7.08E-12	1.91E-08
AP039X2-ROO-LFO	12	2.00E-02 ( 6.5)	3.13E-09 ( 8.5)	1.18E-12	1.05E-08
AP040X2-ROO-LFO	12	2.00E-02 ( 6.5)	3.13E-09 ( 8.5)	1.18E-12	1.05E-08
1E4327WY-ROO-LFO	12	2.00E-02 ( 6.5)	3.13E-09 ( 8.5)	1.18E-12	1.05E-08
1E4327WX-ROO-LFO	12	2.00E-02 ( 6.5)	3.13E-09 ( 8.5)	1.18E-12	1.05E-08
DG2B-GEN-LF-FTR	16	1.90E-02 ( 9.5)	3.11E-09 ( 11.5)	7.25E-13	8.85E-09
DG2A-GEN-LF-FTR	16	1.90E-02 ( 9.5)	3.11E-09 ( 11.5)	7.25E-13	8.85E-09
RHRC02AA-P-NDUUM	12	3.00E-03 ( 12.5)	2.90E-09 ( 13.0)	1.71E-12	6.68E-09
RHRB01AA-BOO-CC	12	2.50E-03 ( 14.5)	2.42E-09 ( 14.5)	8.59E-13	7.65E-09
NWVY01CA-FMS-CC	12	2.50E-03 ( 14.5)	2.42E-09 ( 14.5)	8.59E-13	7.65E-09
RHRC02AA-PMS-LF	4	1.10E-03 ( 16.0)	7.60E-10 ( 16.0)	3.22E-14	3.82E-09

SEQUENCE T59  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RA-B-23H	56	4.50E-03 ( 11.0)	2.98E-06 ( 1.0)	2.28E-08	1.49E-05
RHRC02AA-P-UUM	16	3.00E-03 ( 12.5)	1.65E-06 ( 2.0)	3.07E-09	8.23E-06
NWVY01CA-FMS-CC	12	2.50E-03 ( 14.5)	9.64E-07 ( 3.5)	2.51E-09	3.72E-06
RHR801AA-B00-CC	12	2.50E-03 ( 14.5)	9.64E-07 ( 3.5)	2.51E-09	3.72E-06
RHRC02AA-P-NDUUM	12	3.00E-03 ( 12.5)	9.63E-07 ( 5.0)	2.51E-09	3.69E-06
RHRC02AA-PMS-LF	4	1.10E-03 ( 16.0)	6.90E-07 ( 6.0)	7.06E-11	4.51E-06
DG2B-GEN-LF-FTR	16	1.90E-02 ( 9.5)	1.61E-07 ( 7.5)	3.15E-10	5.24E-07
DG2A-GEN-LF-FTR	16	1.90E-02 ( 9.5)	1.61E-07 ( 7.5)	3.15E-10	5.24E-07
DG2A-GEN-LF-FTS	16	2.50E-02 ( 3.5)	1.60E-07 ( 9.5)	3.13E-10	5.28E-07
DG2B-GEN-LF-FTS	16	2.50E-02 ( 3.5)	1.60E-07 ( 9.5)	3.13E-10	5.28E-07
AP039X2-ROO-LFO	12	2.00E-02 ( 6.5)	1.53E-07 ( 12.5)	4.05E-10	4.88E-07
1E4327WX-ROO-LFO	12	2.00E-02 ( 6.5)	1.53E-07 ( 12.5)	4.05E-10	4.88E-07
AP040X2-ROO-LFO	12	2.00E-02 ( 6.5)	1.53E-07 ( 12.5)	4.05E-10	4.88E-07
1E4327NY-ROO-LFO	12	2.00E-02 ( 6.5)	1.53E-07 ( 12.5)	4.05E-10	4.88E-07
RA-9-23H	48	4.10E-01 ( 2.0)	1.53E-08 ( 15.0)	1.45E-11	5.26E-08
SCSF06AA-DENER	16	1.00E+00 ( 1.0)	0.00E+00 ( 16.0)		

## SEQUENCE T59

## UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
RA-8-23H	56	4.50E-03 ( 11.0)	38.5	( 1.0)	7.09	1.16
AP039X2-ROO-LFO	12	2.00E-02 ( 6.5)	19.6	( 3.5)	3.70	0.93
AP040X2-ROO-LFO	12	2.00E-02 ( 6.5)	19.6	( 3.5)	3.70	0.93
1E4327NY-ROO-LFO	12	2.00E-02 ( 6.5)	19.6	( 3.5)	3.70	0.93
1E4327NX-ROO-LFO	12	2.00E-02 ( 6.5)	19.6	( 3.5)	3.70	0.93
DG2B-GEN-LF-FTR	16	1.90E-02 ( 9.5)	7.3	( 6.5)	1.31	0.93
DG2A-GEN-LF-FTR	16	1.90E-02 ( 9.5)	7.3	( 6.5)	.31	0.93
RA-9-23H	48	4.10E-01 ( 2.0)	6.0	( 8.0)	1.41	0.97
DG2A-GEN-LF-FTS	16	2.50E-02 ( 3.5)	6.0	( 9.5)	1.02	0.97
DG2B-GEN-LF-FTS	16	2.50E-02 ( 3.5)	6.0	( 9.5)	1.02	0.97
RHRB01AA-ROO-CC	12	2.50E-03 ( 14.5)	5.5	( 11.5)	1.62	0.99
NWVYD1CA-FMS-CC	12	2.50E-03 ( 14.5)	5.5	( 11.5)	1.62	0.99
RHRC02AA-FMS-LF	4	1.10E-03 ( 16.0)	5.1	( 13.0)	1.09	1.03
RHRC02AA-P-UUM	16	3.00E-03 ( 12.5)	4.6	( 14.0)	1.68	0.97
RHRC02AA-P-NDUUM	12	3.00E-03 ( 12.5)	1.7	( 15.0)	1.20	0.92
SCSF06AA-DENER	16	1.00E+00 ( 1.0)				

SEQUENCE T59

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT DPDSA2-T-SEQ3DA WITH TOP EVENT FREQUENCY 1.35E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	3	6	5.18E-10	0.03850	1E4327NY-ROO-LFO *	AP039X2-ROO-LFO *	1E-LOSP	*	RA-B-23H	*
3					RHRC02AA-P-UUM *	SCSF06AA-DENER *				
4	1	6	5.18E-10	0.07701	1E4327NX-ROO-LFO *	AP039X2-ROO-LFO *	1E-LOSP	*	RA-B-23H	*
5					RHRC02AA-P-UUM *	SCSF06AA-DENER +				
6	2	6	5.18E-10	0.11551	1E4327NY-ROO-LFO *	AP040X2-ROO-LFO *	1E-LOSP	*	RA-B-23H	*
7					RHRC02AA-P-UUM *	SCSF06AA-DENER +				
8	4	6	5.18E-10	0.15401	1E4327NX-ROO-LFO *	AP040X2-ROO-LFO *	1E-LOSP	*	RA-B-23H	*
9					RHRC02AA-P-UUM *	SCSF06AA-DENER +				
10	5	6	3.32E-10	0.17868	DG2A-GEN-LF-FTS *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
11					RA-9-23H *	RHRC02AA-P-NDUUM +				
12	6	7	3.32E-10	0.20334	DG2A-GEN-LF-FTS *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
13					RA-9-23H *	RHRC02AA-P-UUM *	SCSF06AA-DENER +			
14	8	6	2.77E-10	0.22390	DG2A-GEN-LF-FTS *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
15					RA-9-23H *	RHRB01AA-B00-CC +				
16	7	6	2.77E-10	0.24445	DG2A-GEN-LF-FTS *	DG2B-GEN-LF-FTS *	1E-LOSP	*	NWV01CA-FMS-CC *	*
17					RA-8-23H *	RA-9-23H +				
18	14	6	2.66E-10	0.26419	1E4327NX-ROO-LFO *	DG2A-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
19					RA-9-23H *	RHRC02AA-P-NDUUM +				
20	13	7	2.66E-10	0.28392	1E4327NY-ROO-LFO *	DG2A-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
21					RA-9-23H *	RHRC02AA-P-UUM *	SCSF06AA-DENER +			
22	12	7	2.66E-10	0.30365	AP039X2-ROO-LFO *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
23					RA-9-23H *	RHRC02AA-P-UUM *	SCSF06AA-DENER +			
24	11	7	2.66E-10	0.32338	AP040X2-ROO-LFO *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
25					RA-9-23H *	RHRC02AA-P-UUM *	SCSF06AA-DENER +			
26	10	7	2.66E-10	0.34312	1E4327NY-ROO-LFO *	DG2A-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
27					RA-9-23H *	RHRC02AA-P-UUM *	SCSF06AA-DENER +			
28	15	6	2.66E-10	0.36285	1E4327NY-ROO-LFO *	DG2A-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
29					RA-9-23H *	RHRC02AA-P-NDUUM +				
30	9	6	2.66E-10	0.38258	AP039X2-ROO-LFO *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
31					RA-9-23H *	RHRC02AA-P-NDUUM +				
32	16	6	2.66E-10	0.40231	AP040X2-ROO-LFO *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
33					RA-9-23H *	RHRC02AA-P-NDUUM +				
34	20	7	2.52E-10	0.42106	DG2A-GEN-LF-FTS *	DG2B-GEN-LF-FTR *	1E-LOSP	*	RA-B-23H	*
35					RA-9-23H *	RHRC02AA-P-UUM *	SCSF06AA-DENER +			
36	19	7	2.52E-10	0.43981	DG2A-GEN-LF-FTR *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
37					RA-9-23H *	RHRC02AA-P-UUM *	SCSF06AA-DENER +			
38	18	6	2.52E-10	0.45855	DG2A-GEN-LF-FTR *	DG2B-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
39					RA-9-23H *	RHRC02AA-P-NDUUM +				
40	17	6	2.52E-10	0.47730	DG2A-GEN-LF-FTS *	DG2B-GEN-LF-FTR *	1E-LOSP	*	RA-B-23H	*
41					RA-9-23H *	RHRC02AA-P-NDUUM +				
42	28	6	2.21E-10	0.49374	1E4327NX-ROO-LFO *	DG2A-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
43					RA-9-23H *	RHRB01AA-B00-CC +				
44	25	6	2.21E-10	0.51019	1E4327NY-ROO-LFO *	DG2A-GEN-LF-FTS *	1E-LOSP	*	RA-B-23H	*
45					RA-9-23H *	RHRB01AA-B00-CC +				

46	24	6	2.21E-10	0.52663	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*	RA-B-23H	*
47					RA-9-23H	*	RHRB01AA-B00-CC	+				
48	21	6	2.21E-10	0.54307	AP039X2-ROO-LFO	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*	RA-B-23H	*
49					RA-9-23H	*	RHRB01AA-B00-CC	+				
50	27	6	2.21E-10	0.55952	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
51					RA-8-23H	*	RA-9-23H	+				
52	26	6	2.21E-10	0.57596	1E4327NX-ROO-LFO	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
53					RA-8-23H	*	RA-9-23H	+				
54	23	6	2.21E-10	0.59241	1E4327NY-ROO-LFO	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
55					RA-8-23H	*	RA-9-23H	+				
56	22	6	2.21E-10	0.60885	AP039X2-ROO-LFO	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
57					RA-8-23H	*	RA-9-23H	+				
58	31	6	2.10E-10	0.62447	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
59					RA-8-23H	*	RA-9-23H	+				
60	32	6	2.10E-10	0.64009	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
61					RA-6-23H	*	RA-9-23H	+				
62	30	6	2.10E-10	0.65571	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
63					RA-9-23H	*	RHRB01AA-B00-CC	+				
64	29	6	2.10E-10	0.67134	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*	RA-B-23H	*
65					RA-9-23H	*	RHRB01AA-B00-CC	+				
66	40	6	2.02E-10	0.68633	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
67					RA-9-23H	*	RHRC02AA-P-NDUUM	+				
68	38	6	2.02E-10	0.70133	1E4327NX-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
69					RA-9-23H	*	RHRC02AA-P-NDUUM	+				
70	37	7	2.02E-10	0.71633	1E4327NX-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
71					RA-9-23H	*	RHRC02AA-P-UUM	*	SCSF06AA-DENER	+		
72	36	7	2.02E-10	0.73132	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
73					RA-9-23H	*	RHRC02AA-P-UUM	*	SCSF06AA-DENER	+		
74	35	7	2.02E-10	0.74632	AP039X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
75					RA-9-23H	*	RHRC02AA-P-UUM	*	SCSF06AA-DENER	+		
76	39	6	2.02E-10	0.76132	AP039X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
77					RA-9-23H	*	RHRC02AA-P-NDUUM	+				
78	34	6	2.02E-10	0.77631	1E4327NY-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
79					RA-9-23H	*	RHRC02AA-P-NDUUM	+				
80	33	7	2.02E-10	0.79131	1E4327NY-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
81					RA-9-23H	*	RHRC02AA-P-UUM	*	SCSF06AA-DENER	+		
82	42	7	1.92E-10	0.80556	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
83					RA-9-23H	*	RHRC02AA-P-UUM	*	SCSF06AA-DENER	+		
84	41	6	1.92E-10	0.81981	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-B-23H	*
85					RA-9-23H	*	RHRC02AA-P-NDUUM	+				
86	46	5	1.90E-10	0.83392	1E4327NX-ROO-LFO	*	AP039X2-ROO-LFO	*	1E-LOSP	*	RA-B-23H	*
87					RHRC02AA-PMS-LF	+						
88	45	5	1.90E-10	0.84804	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	1E-LOSP	*	RA-B-23H	*
89					RHRC02AA-PMS-LF	+						
90	44	5	1.90E-10	0.86216	1E4327NY-ROO-LFO	*	AP039X2-ROO-LFO	*	1E-LOSP	*	RA-B-23H	*
91					RHRC02AA-PMS-LF	+						
92	43	5	1.90E-10	0.87628	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	1E-LOSP	*	RA-B-23H	*
93					RHRC02AA-PMS-LF	+						
94	50	6	1.68E-10	0.88877	1E4327NY-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
95					RA-8-23H	*	RA-9-23H	+				
96	49	6	1.68E-10	0.90127	1E4327NX-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
97					RA-8-23H	*	RA-9-23H	+				

98	48	6	1.68E-10	0.91377	AP039X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
99					RA-8-23H	*	RA-9-23H	+				
100	47	6	1.68E-10	0.92627	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
101					RA-8-23H	*	RA-9-23H	+				
102	54	6	1.68E-10	0.93876	1E4327NY-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	RA-8-23H	*
103					RA-9-23H	*	RHRB01AA-BOO-CC	+				
104	53	6	1.68E-10	0.95126	1E4327NX-ROO-LFO	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*	RA-8-23H	*
105					RA-9-23H	*	RHRB01AA-BOO-CC	+				
106	52	5	1.68E-10	0.96376	AP039X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-8-23H	*
107					RA-9-23H	*	RHRB01AA-BOO-CC	+				
108	51	6	1.68E-10	0.97626	AP040X2-ROO-LFO	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-8-23H	*
109					RA-9-23H	*	RHRB01AA-BOO-CC	+				
110	55	6	1.60E-10	0.98813	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	NWVY01CA-FMS-CC	*
111					RA-8-23H	*	RA-9-23H	+				
112	56	6	1.60E-10	1.00000	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*	RA-8-23H	*
113					RA-9-23H	*	RHRB01AA-BOO-CC	+				

TEMAC RUN TIME IN CPU SECONDS 25.93

SEQUENCE 162

TOP EVENT PDS-I-SEQ3E CONTAINS 208 EVENTS IN 2162 CUT SETS

THE FREQUENCY OF TOP EVENT PDS-T-SEQ3E IS 4.77E-06

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT PDS-T-SEQ3E

N	300
MEAN	6.53E-06
STD DEV	1.77E-05
LOWER 5%	3.18E-07
LOWER 25%	8.69E-07
MEDIAN	2.39E-06
UPPER 25%	5.13E-06
UPPER 5%	2.41E-05

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$



## SEQUENCE T62

## RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
DGCOOL-BETA	6	1.10E-01 ( 12.5)	2.71E-06 ( 1.5)	4.63E-08	1.00E-05
DGCOOL-FMS-CM	6	2.50E-03 ( 69.0)	2.71E-06 ( 1.5)	4.63E-08	1.00E-05
RA-NONE	7	1.00E+00 ( 1.5)	1.83E-06 ( 3.0)		
RA-8-8H	927	2.70E-02 ( 15.0)	1.74E-06 ( 4.0)	7.53E-08	7.88E-06
RA-8-10H	1194	2.00E-02 ( 26.5)	1.01E-06 ( 5.0)	6.88E-09	4.67E-06
RA-9-2H	1157	8.70E-01 ( 3.0)	9.92E-07 ( 6.0)	6.53E-09	4.62E-06
DGD-GEN-LF-FTS	539	2.50E-02 ( 17.5)	6.31E-07 ( 7.0)	1.03E-08	4.59E-06
RA-9-8H	740	6.00E-01 ( 4.0)	6.95E-07 ( 8.0)	7.15E-09	4.27E-06
DGD-GEN-LF-FTR	453	1.90E-02 ( 35.0)	4.99E-07 ( 9.0)	1.78E-09	2.73E-06
OPFAILSCDS-OE-BM	10	3.40E-01 ( 8.0)	4.73E-07 ( 10.0)	6.15E-09	1.88E-06
EE-MDC-IAS-AB-R	10	3.30E-01 ( 10.0)	4.56E-07 ( 12.0)		
EE-MDP-PSW-BC-R	10	3.30E-01 ( 10.0)	4.56E-07 ( 12.0)		
EE-MDC-IAS-CB-R	10	3.30E-01 ( 10.0)	4.56E-07 ( 12.0)		
DG2A-GEN-LF-FTS	385	2.50E-02 ( 17.5)	4.05E-07 ( 14.0)	8.00E-09	3.06E-06
DG2B-GEN-LF-FTS	375	2.50E-02 ( 17.5)	4.00E-07 ( 15.0)	7.90E-09	3.07E-06
DG-FTS-BETA	6	1.20E-02 ( 37.0)	3.55E-07 ( 17.0)	8.56E-09	1.41E-06
RA-15-8H	6	4.50E-01 ( 7.0)	3.55E-07 ( 17.0)	8.56E-09	1.41E-06
DGX-GEN-CM-FTS	6	2.50E-02 ( 17.5)	3.55E-07 ( 17.0)	8.56E-09	1.41E-06
DG2A-GEN-LF-FTR	349	1.90E-02 ( 35.0)	3.21E-07 ( 19.0)	1.31E-09	1.77E-06
DG2B-GEN-LF-FTR	339	1.90E-02 ( 35.0)	3.17E-07 ( 20.0)	1.22E-09	1.74E-06
AP040X2-ROO-LFO	260	2.00E-02 ( 26.5)	3.02E-07 ( 21.0)	1.62E-09	2.42E-06
AP039X2-ROO-LFO	261	2.00E-02 ( 26.5)	3.01E-07 ( 22.0)	1.52E-09	2.41E-06
1E4327NX-ROO-LFO	264	2.00E-02 ( 26.5)	2.99E-07 ( 23.5)	1.44E-09	2.47E-06
1E4327NY-ROO-LFO	264	2.00E-02 ( 26.5)	2.99E-07 ( 23.5)	1.44E-09	2.47E-06
CRD-REALIGN-OE	1	2.10E-03 ( 82.5)	1.73E-07 ( 25.5)	5.36E-10	4.94E-07
TSCDSS0PERCENT	1	5.00E-01 ( 6.0)	1.73E-07 ( 25.5)		
DG0-G-UUM	91	6.00E-03 ( 39.0)	9.80E-08 ( 27.0)	1.63E-09	5.88E-07
DG0-GEN-CC-FTS	112	3.70E-03 ( 42.0)	5.99E-08 ( 28.0)	2.77E-10	3.85E-07
DG2B-G-UUM	79	6.00E-03 ( 39.0)	5.37E-08 ( 29.0)	1.05E-09	3.02E-07
DG2A-G-UUM	80	6.00E-03 ( 39.0)	5.23E-08 ( 30.0)	1.04E-09	2.80E-07
DG0-GEN-CC-FTR	99	2.80E-03 ( 52.0)	4.68E-08 ( 31.0)	1.78E-10	2.20E-07
LCSC002A-P-UUM	60	3.00E-03 ( 47.5)	4.01E-08 ( 32.0)	1.00E-10	1.82E-07
DG2A-GEN-CC-FTS	86	3.70E-03 ( 42.0)	3.74E-08 ( 33.0)	1.82E-10	2.31E-07
DG2B-GEN-CC-FTS	84	3.70E-03 ( 42.0)	3.71E-08 ( 34.0)	1.78E-10	2.28E-07
DG2A-GEN-CC-FTR	74	2.80E-03 ( 52.0)	2.91E-08 ( 35.0)	1.37E-10	1.14E-07
DG2B-GEN-CC-FTR	70	2.80E-03 ( 52.0)	2.88E-08 ( 36.0)	1.36E-10	1.13E-07
CDDG01P-P-UUM	16	3.00E-03 ( 47.5)	2.67E-08 ( 37.0)	7.24E-11	8.51E-08
1E6233A-BCC-AS	16	2.50E-03 ( 69.0)	2.23E-08 ( 40.5)	9.19E-11	1.09E-07
DOV-MOD-COM-CC	16	2.50E-03 ( 69.0)	2.23E-08 ( 40.5)	9.19E-11	1.09E-07
DG0V01CA-FMS-CC	16	2.50E-03 ( 69.0)	2.23E-08 ( 40.5)	9.19E-11	1.09E-07
1E6412A-BCC-CC	16	2.50E-03 ( 69.0)	2.23E-08 ( 40.5)	9.19E-11	1.09E-07
1E6413A-BOO-CC	16	2.50E-03 ( 69.0)	2.23E-08 ( 40.5)	9.19E-11	1.09E-07
CDDG01P-PMS-CC	16	2.50E-03 ( 69.0)	2.23E-08 ( 40.5)	9.19E-11	1.09E-07
DG0V01CA-RUM-U	24	1.40E-03 ( 84.0)	1.94E-08 ( 44.0)	6.13E-11	1.24E-07
CSC002-P-UUM	12	3.00E-03 ( 47.5)	1.83E-08 ( 46.0)	5.63E-11	6.29E-08

C2DG01P-P-UUM	12	3.00E-03 ( 47.5)	1.83E-08 ( 46.0)	5.63E-11	6.29E-08
HCSC001C-P-UUM	12	3.00E-03 ( 47.5)	1.83E-08 ( 46.0)	5.63E-11	6.29E-08
CODG01P-PMS-LF	39	1.10E-03 ( 86.5)	1.73E-08 ( 48.0)	7.57E-11	7.96E-08
DG2V03CB-FMS-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
DHV-MOD-COM-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
DAV-MOD-COM-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
1EB234B-BCC-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
1EB433C-BOO-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
SWVY02CC-FMS-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
SEVY03CB-FMS-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
1EB423B-BOO-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
1EB432C-BCC-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
CSCC002-PMS-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
HCSC001C-PMS-CS	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
1EB425B-BCC-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
C2DG01P-PMS-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
1EP422B-BCC-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
DGHV01CC-FMS-CC	16	2.50E-03 ( 69.0)	1.54E-08 ( 56.0)	6.47E-11	1.00E-07
EE-CODG01F-PLG	76	7.20E-04 ( 92.0)	1.45E-08 ( 64.0)	5.43E-11	9.32E-08
RA-9-10H	20	5.50E-01 ( 5.0)	1.13E-08 ( 65.0)	3.86E-11	3.92E-08
CODG01F-PLG-LF	43	5.80E-04 ( 97.0)	9.91E-09 ( 66.0)	4.92E-11	3.72E-08
C2DG01P-PMS-LF	35	1.10E-03 ( 86.5)	9.90E-09 ( 67.0)	9.03E-11	3.28E-08
DGOV01FX-KLN-LFB	40	5.80E-04 ( 97.0)	9.75E-09 ( 68.0)	4.91E-11	3.72E-08
CSCC002-PMS-LF	28	1.10E-03 ( 86.5)	9.29E-09 ( 69.5)	6.03E-11	3.23E-08
HCSC001C-PMS-LF	28	1.10E-03 ( 86.5)	9.29E-09 ( 69.5)	6.03E-11	3.23E-08
RLOSP	29	2.10E-04 (165.0)	8.96E-09 ( 71.0)	2.00E-10	6.14E-08
EE-C2DG01F-PLG	62	7.20E-04 ( 92.0)	8.74E-09 ( 72.0)	4.19E-11	3.52E-08
EE-CSCD300-PLG	62	7.20E-04 ( 92.0)	8.72E-09 ( 73.0)	3.81E-11	3.56E-08
D0V8202X-BCO-LF	58	2.00E-02 ( 26.5)	7.78E-09 ( 75.5)	2.59E-12	8.35E-08
D0V8102X-BCO-LF	58	2.00E-02 ( 26.5)	7.78E-09 ( 75.5)	2.59E-12	8.35E-08
D0V8101X-BCO-LF	58	2.00E-02 ( 26.5)	7.78E-09 ( 75.5)	2.59E-12	8.35E-08
D0V8201X-BCO-LF	58	2.00E-02 ( 26.5)	7.78E-09 ( 75.5)	2.59E-12	8.35E-08
1EB413A-BOO-LF	34	5.00E-04 (119.0)	7.70E-09 ( 78.0)	2.46E-11	5.05E-08
1EB412A-BCC-LF	33	5.00E-04 (119.0)	7.65E-09 ( 79.5)	2.45E-11	5.04E-08
1EB233A-BCC-LF	33	5.00E-04 (119.0)	7.65E-09 ( 79.5)	2.45E-11	5.04E-08
C2DG01F-PLG-LF	38	5.80E-04 ( 97.0)	7.23E-09 ( 81.0)	4.76E-11	5.45E-08
RA-1-1-10H	11	2.10E-03 ( 82.5)	7.18E-09 ( 82.0)	2.20E-12	5.59E-08
CSCD300-PLG-LF	30	5.80E-04 ( 97.0)	6.83E-09 ( 83.0)	4.28E-11	5.42E-08
LAK10RCA-ROO-LFO	5	2.00E-02 ( 26.5)	5.76E-09 ( 84.0)	1.86E-12	4.18E-08
HACTK3-ROO-LFO	27	2.00E-02 ( 26.5)	5.53E-09 ( 85.0)	6.61E-12	3.31E-08
HACTK9-ROO-LFO	26	2.00E-02 ( 26.5)	5.48E-09 ( 86.0)	6.56E-12	3.30E-08
DG2V02FX-KLN-LFB	27	5.80E-04 ( 97.0)	5.16E-09 ( 87.5)	2.58E-11	1.93E-08
DGHV01FX-KLN-LFB	27	5.80E-04 ( 97.0)	5.16E-09 ( 87.5)	2.58E-11	1.93E-08
SEVY03AX-ACX-LFI	8	8.40E-04 ( 89.5)	5.03E-09 ( 89.5)	2.18E-11	2.58E-08
SWVY02AX-ACX-LFI	8	8.40E-04 ( 89.5)	5.03E-09 ( 89.5)	2.18E-11	2.58E-08
EE-CST-LVL	26	1.00E+00 ( 1.5)	4.95E-09 ( 91.0)		
DGOV01CA-FMS-LF	12	5.40E-04 (103.0)	4.76E-09 ( 92.0)	7.48E-11	1.75E-08
DGOV03YA-M-UUM	12	5.00E-04 (119.0)	4.41E-09 ( 94.5)	7.46E-11	1.82E-08
DGOV02YA-M-UUM	12	5.00E-04 (119.0)	4.41E-09 ( 94.5)	7.46E-11	1.82E-08
DGOV01YA-M-UUM	12	5.00E-04 (119.0)	4.41E-09 ( 94.5)	7.46E-11	1.82E-08
DGOV01CA-F-UUM	12	5.00E-04 (119.0)	4.41E-09 ( 94.5)	7.46E-11	1.82E-08
DGOV03YA-MCC-LF	20	3.00E-04 (147.5)	4.14E-09 ( 98.0)	5.17E-11	2.39E-08

DG0V02YA-M00-LF	20	3.00E-04 (147.5)	4.14E-09 (98.0)	5.17E-11	2.39E-08
DG0V01YA-MCC-LF	20	3.00E-04 (147.5)	4.14E-09 (98.0)	5.17E-11	2.39E-08
1EB425B-BCC-LF	23	5.00E-04 (119.0)	4.05E-09 (101.5)	1.78E-11	1.37E-08
1EB423B-B00-LF	23	5.00E-04 (119.0)	4.05E-09 (101.5)	1.78E-11	1.37E-08
1EB234B-BCC-LF	23	5.00E-04 (119.0)	4.05E-09 (101.5)	1.78E-11	1.37E-08
1EB422B-BCC-LF	23	5.00E-04 (119.0)	4.05E-09 (101.5)	1.78E-11	1.37E-08
1EB432C-BCC-LF	22	5.00E-04 (119.0)	4.00E-09 (104.0)	1.74E-11	1.35E-08
HCSF015C-VCC-LF	22	5.00E-04 (119.0)	4.00E-09 (105.0)	1.52E-11	1.78E-08
1EB433C-B00-LF	21	5.00E-04 (119.0)	3.96E-09 (106.0)	1.71E-11	1.34E-08
HCSF004C-VCC-LF	21	5.00E-04 (119.0)	3.96E-09 (107.0)	1.51E-11	1.77E-08
1EK16ARC-ROO-LFO	8	5.80E-04 (97.0)	3.47E-09 (108.0)	7.51E-12	2.63E-08
RA-1-3-8H	43	2.60E-03 (55.0)	3.35E-09 (109.0)	3.59E-12	2.00E-08
DG2V03CB-FMS-LF	8	5.40E-04 (103.0)	3.23E-09 (111.5)	5.61E-11	1.29E-08
SWVY02CC-FMS-LF	8	5.40E-04 (103.0)	3.23E-09 (111.5)	5.61E-11	1.29E-08
SEVY03CB-FMS-LF	8	5.40E-04 (103.0)	3.23E-09 (111.5)	5.61E-11	1.29E-08
DGHV01CC-FMS-LF	8	5.40E-04 (103.0)	3.23E-09 (111.5)	5.61E-11	1.29E-08
DG2V11YB-M-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
DG2V10YB-M-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
DG2V09YB-M-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
DG2V03CB-F-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
2DG1PK18-ROO-LFO	8	5.00E-04 (119.0)	2.99E-09 (119.5)	7.61E-12	2.39E-08
SWVY02CC-F-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
SEVY03CB-F-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
CSC02K18-ROO-LFO	8	5.00E-04 (119.0)	2.99E-09 (119.5)	7.61E-12	2.39E-08
DGHV03YC-M-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
DGHV02YC-M-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
DGHV01YC-M-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
DGHV01CC-F-UUM	8	5.00E-04 (119.0)	2.99E-09 (119.5)	6.23E-11	1.26E-08
DG2V11YB-MCC-LF	12	3.00E-04 (147.5)	2.05E-09 (128.5)	3.27E-11	8.39E-09
DG2V10YB-M00-LF	12	3.00E-04 (147.5)	2.05E-09 (128.5)	3.27E-11	8.39E-09
DG2V09YB-MCC-LF	12	3.00E-04 (147.5)	2.05E-09 (128.5)	3.27E-11	8.39E-09
DGHV03YC-MCC-LF	12	3.00E-04 (147.5)	2.05E-09 (128.5)	3.27E-11	8.39E-09
DGHV02YC-M00-LF	12	3.00E-04 (147.5)	2.05E-09 (128.5)	3.27E-11	8.39E-09
DGHV01YC-MCC-LF	12	3.00E-04 (147.5)	2.05E-09 (128.5)	3.27E-11	8.39E-09
RHRC003B-P-UUM	6	3.00E-03 (47.5)	1.54E-09 (132.0)	7.60E-13	2.28E-09
LAK38RCB-RCO-LFO	6	3.40E-03 (44.0)	1.41E-09 (133.0)	3.67E-13	9.13E-09
RA-1-3-13H	11	2.60E-03 (55.0)	1.31E-09 (134.0)	2.04E-12	3.37E-09
AP037X3-ROO-LFO	22	2.00E-02 (26.5)	1.30E-09 (135.0)	3.85E-13	1.47E-08
C0DG01F-S-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.51E-12	4.58E-09
AP251X2CP4-LFO0	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
AP040X2CP7-LFO0	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
AP039X2CP4-LFO0	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
2DG01PSC-000-LFO	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
2DG01PK18CA-LFO0	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
SWVY02AX-A-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.51E-12	4.58E-09
22C1AAX-A00-LFO	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
SEVY03AX-A-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.51E-12	4.58E-09
1EK18ABCP6-LFO0	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
1EK18A18CP6-LFO0	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
1E4327NXCP2-LFO0	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
1E433AAX-A00-LFO	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
CSCD300-S-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.51E-12	4.58E-09

HCSF015C-V-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	3.49E-12	5.59E-09
HCSF004C-V-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	3.49E-12	5.59E-09
HCSF001C-V-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	3.49E-12	5.59E-09
CSC02K1BCPS-LFOO	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
CC002SC-000-LFO	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
1E4327NYCP2-LFOO	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.66E-12	5.89E-09
C2DG01F-S-UUM	4	3.00E-04 (147.5)	9.49E-10 (146.0)	2.51E-12	4.58E-09
LPCI-BETA	4	1.10E-01 ( 12.5)	8.70E-10 (157.5)	1.78E-12	6.97E-09
LPCI-PMS-CM	4	2.50E-03 ( 69.0)	8.70E-10 (157.5)	1.78E-12	6.97E-09
HCSF023C-VCO-CS	4	2.40E-04 (163.5)	7.59E-10 (159.5)	2.39E-12	3.07E-09
HCSF001C-VOC-CS	4	2.40E-04 (163.5)	7.59E-10 (159.5)	2.39E-12	3.07E-09
1EB16211-BCO	12	8.40E-05 (169.5)	7.40E-10 (161.5)	2.32E-12	3.91E-09
CCB0DG1P-BCO-LF	12	8.40E-05 (169.5)	7.40E-10 (161.5)	2.32E-12	3.91E-09
AP040X3-R00-LFO	12	2.00E-02 ( 26.5)	7.32E-10 (163.0)	2.78E-13	6.25E-09
HACTK22CP1-LFOC	4	2.00E-04 (166.0)	6.32E-10 (164.0)	1.97E-12	4.34E-09
1EB16212-BCO	8	8.40E-05 (169.5)	5.03E-10 (166.5)	1.82E-12	2.56E-09
HC001CB-BCO-LF	8	8.40E-05 (169.5)	5.03E-10 (166.5)	1.82E-12	2.56E-09
CCBC002-BCO-LF	8	8.40E-05 (169.5)	5.03E-10 (166.5)	1.82E-12	2.56E-09
CCB20G1P-BCO-LF	8	8.40E-05 (169.5)	5.03E-10 (166.5)	1.82E-12	2.56E-09
1EB1Y22X-BCO	7	7.20E-05 (186.0)	4.08E-10 (170.5)	1.82E-12	2.39E-09
1EB1Y13X-BCO	7	7.20E-05 (186.0)	4.08E-10 (170.5)	1.82E-12	2.39E-09
1EB235XA-BCO-LF	7	7.20E-05 (186.0)	4.08E-10 (170.5)	1.82E-12	2.39E-09
1EB235A-BCO-LF	7	7.20E-05 (186.0)	4.08E-10 (170.5)	1.82E-12	2.39E-09
LPCI-MOV-BETA	6	3.00E-02 ( 14.0)	3.84E-10 (173.0)	8.32E-13	1.66E-09
RA-1-3-10H	8	2.60E-03 ( 55.0)	3.79E-10 (174.0)	1.46E-13	5.73E-10
1EB36YB-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB36Y1X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB212YX-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB1312X-BCO	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB36XB-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
36X2BD3X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB36X3X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
2431B6DX-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
SWV8001X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB2Y22X-BCO	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB1311X-BCO	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
SEVB001X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB2Y14X-BCO	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
DAVB002X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
DAVB001X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB43C-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB236B-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB1315X-BCO	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
DHVB002X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
DHVB001X-BCO-LF	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
1EB1313X-BCO	5	7.20E-05 (186.0)	2.96E-10 (185.0)	1.45E-12	1.64E-09
LPCI-MOV-CM2	3	2.50E-03 ( 69.0)	1.92E-10 (196.5)	4.16E-13	8.30E-10
LPCI-MOV-CM1	3	2.50E-03 ( 69.0)	1.92E-10 (196.5)	4.16E-13	8.30E-10
1EB35Y2X-BCO-LF	3	7.20E-05 (186.0)	1.62E-10 (198.5)	4.90E-13	9.52E-10
1EB235YA-BCO-LF	3	7.20E-05 (186.0)	1.62E-10 (198.5)	4.90E-13	9.52E-10

## SEQUENCE T62

## RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
DGCOOL-PMS-CM	6	2.50E-03 ( 69.0)	1.08E-03 ( 1.0)	1.79E-04	3.06E-03
CRD-REALIGN-OE	1	2.10E-03 ( 82.5)	8.23E-05 ( 2.0)	1.10E-06	2.43E-04
RA-B-BH	927	2.70E-02 ( 15.0)	6.27E-05 ( 3.0)	4.38E-06	2.74E-04
RA-B-10H	1194	2.00E-02 ( 26.5)	4.97E-05 ( 4.0)	5.86E-07	4.05E-04
RLOSP	29	2.10E-04 (165.0)	4.26E-05 ( 5.0)	1.57E-06	2.41E-04
DG-FYS-BETA	6	1.20E-02 ( 37.0)	2.92E-05 ( 6.0)	1.33E-06	1.20E-04
DG0-GEN-LF-FTR	453	1.90E-02 ( 35.0)	2.58E-05 ( 7.0)	9.70E-07	1.25E-04
DG0-GEN-LF-FTS	539	2.50E-02 ( 17.5)	2.46E-05 ( 8.0)	8.00E-07	1.21E-04
DGCOOL-BETA	6	1.10E-01 ( 12.5)	2.20E-05 ( 9.0)	6.77E-07	1.01E-04
EE-CODG01F-PLG	76	7.20E-04 ( 92.0)	2.01E-05 ( 10.0)	5.74E-07	1.33E-04
CODG01F-PLG-LF	43	5.80E-04 ( 97.0)	1.71E-05 ( 11.0)	4.14E-07	1.11E-04
DG0V01FX-KLN-LFB	40	5.80E-04 ( 97.0)	1.68E-05 ( 12.0)	3.60E-07	1.09E-04
DG0-GEN-CC-FTR	99	2.80E-03 ( 52.0)	1.67E-05 ( 13.0)	4.52E-07	9.31E-05
DG2A-GEN-LF-FTR	349	1.90E-02 ( 35.0)	1.66E-05 ( 14.0)	7.59E-07	6.11E-05
DG2B-GEN-LF-FTR	339	1.90E-02 ( 35.0)	1.64E-05 ( 15.0)	7.18E-07	6.17E-05
DG0-G-UUM	91	6.00E-03 ( 39.0)	1.62E-05 ( 16.0)	3.76E-07	1.00E-04
DG0-GEN-CC-FTS	112	3.70E-03 ( 42.0)	1.61E-05 ( 17.0)	3.90E-07	9.69E-05
DG2A-GEN-LF-FTS	385	2.50E-02 ( 17.5)	1.58E-05 ( 18.0)	6.71E-07	5.44E-05
CODG01P-PMS-LF	39	1.10E-03 ( 86.5)	1.57E-05 ( 19.0)	3.24E-07	03E-04
DG2B-GEN-LF-FTS	375	2.50E-02 ( 17.5)	1.56E-05 ( 20.0)	6.25E-07	5.34E-05
1EB413A-B00-LF	34	5.00E-04 (119.0)	1.54E-05 ( 21.0)	3.22E-07	1.03E-04
1EB233A-BCC-LF	33	5.70E-04 (119.0)	1.53E-05 ( 22.5)	3.17E-07	1.03E-04
1EB412A-BCC-LF	33	5.00E-04 (119.0)	1.53E-05 ( 22.5)	3.17E-07	1.03E-04
AP040X2-ROO-LFO	260	2.00E-02 ( 26.5)	1.47E-05 ( 24.0)	6.88E-07	5.60E-05
AP039X2-ROO-LFO	261	2.00E-02 ( 26.5)	1.47E-05 ( 25.0)	6.82E-07	5.58E-05
1E4327NY-ROO-LFO	264	2.00E-02 ( 26.5)	1.47E-05 ( 26.5)	6.21E-07	5.67E-05
1E4327NX-ROO-LFO	264	2.00E-02 ( 26.5)	1.47E-05 ( 26.5)	6.21E-07	5.67E-05
DG0V01CA-RUM-O	24	1.40E-03 ( 84.0)	1.39E-05 ( 28.0)	2.71E-07	9.65E-05
DGX-GEN-CM-FTS	6	2.50E-02 ( 17.5)	1.38E-05 ( 29.0)	5.57E-07	5.05E-05
DG0V01YA-MCC-LF	20	3.00E-04 (147.5)	1.38E-05 ( 31.0)	2.76E-07	1.02E-04
DG0V02YA-MCC-LF	20	3.00E-04 (147.5)	1.38E-05 ( 31.0)	2.76E-07	1.02E-04
DG0V03YA-MCC-LF	20	3.00E-04 (147.5)	1.38E-05 ( 31.0)	2.76E-07	1.02E-04
LCSC002A-P-UUM	60	3.00E-03 ( 47.5)	1.33E-05 ( 33.0)	2.40E-07	7.45E-05
C2DG01F-PLG-LF	38	5.80E-04 ( 97.0)	1.25E-05 ( 34.0)	8.04E-07	3.79E-05
EE-C2DG01F-PLG	62	7.20E-04 ( 92.0)	1.21E-05 ( 35.0)	4.85E-07	4.24E-05
EE-CSCD300-PLG	62	7.20E-04 ( 92.0)	1.21E-05 ( 36.0)	4.69E-07	4.34E-05
CSCD300-PLG-LF	30	5.80E-04 ( 97.0)	1.16E-05 ( 37.0)	7.67E-07	3.78E-05
DG2A-GEN-CC-FTR	74	2.80E-03 ( 52.0)	1.04E-05 ( 38.0)	3.69E-07	3.62E-05
DG2B-GEN-CC-FTR	70	2.80E-03 ( 52.0)	1.02E-05 ( 39.0)	3.65E-07	3.57E-05
DG2A-GEN-CC-FTS	86	3.70E-03 ( 42.0)	1.01E-05 ( 40.0)	2.80E-07	3.64E-05
DG2B-GEN-CC-FTS	84	3.70E-03 ( 42.0)	9.99E-06 ( 41.0)	2.71E-07	3.62E-05
C2DG01P-PMS-LF	35	1.10E-03 ( 86.5)	8.99E-06 ( 42.0)	3.42E-07	3.37E-05
DG2B-G-UUM	79	6.00E-03 ( 39.0)	8.90E-06 ( 43.0)	2.67E-07	3.56E-05
DG0V01FX-KLN-LFB	27	5.80E-04 ( 97.0)	8.90E-06 ( 44.5)	2.41E-07	3.37E-05
DG2V02FX-KLN-LFB	27	5.80E-04 ( 97.0)	8.90E-06 ( 44.5)	2.41E-07	3.37E-05

1EB233A-BCC-AS	16	2.50E-03 ( 69.0)	8.89E-06 ( 43.5)	1.78E-07	3.24E-05
1EB413A-B00-LC	16	2.50E-03 ( 69.0)	8.89E-06 ( 48.5)	1.78E-07	3.24E-05
DOV-MOD-COM-CC	16	2.50E-03 ( 69.0)	8.89E-06 ( 48.5)	1.78E-07	3.24E-05
1EB412A-BCC-CC	16	2.50E-03 ( 69.0)	8.89E-06 ( 48.5)	1.78E-07	3.24E-05
DG0V01CA-FMS-CC	16	2.50E-03 ( 69.0)	8.89E-06 ( 48.5)	1.78E-07	3.24E-05
C0D0G01P-FMS-CC	16	2.50E-03 ( 69.0)	8.89E-06 ( 48.5)	1.78E-07	3.24E-05
C0D0G01P-P-UUM	16	3.00E-03 ( 47.5)	8.89E-06 ( 52.0)	1.78E-07	3.24E-05
1EB16211-BC0	12	8.40E-05 (169.5)	8.81E-06 ( 53.5)	1.76E-07	3.24E-05
CCB00G1P-BC0-LF	12	8.40E-05 (169.5)	8.81E-06 ( 53.5)	1.76E-07	3.24E-05
DG0V03YA-M-UUM	12	5.00E-04 (119.0)	8.81E-06 ( 56.5)	1.76E-07	3.24E-05
DG0V02YA-M-UUM	12	5.00E-04 (119.0)	8.81E-06 ( 56.5)	1.76E-07	3.24E-05
DG0V01YA-M-UUM	12	5.00E-04 (119.0)	8.81E-06 ( 56.5)	1.76E-07	3.24E-05
DG0V01CA-F-UUM	12	5.00E-04 (119.0)	8.81E-06 ( 56.5)	1.76E-07	3.24E-05
DG0V01CA-FMS-LF	12	5.40E-04 (103.0)	8.81E-06 ( 59.0)	1.76E-07	3.24E-05
DG2A-G-UUM	80	6.00E-03 ( 39.0)	8.67E-06 ( 60.0)	2.70E-07	3.58E-05
HCSC001C-PMS-LF	28	1.10E-03 ( 86.5)	8.44E-06 ( 61.5)	2.35E-07	3.37E-05
CSCC002-PMS-LF	28	1.10E-03 ( 86.5)	8.44E-06 ( 61.5)	2.35E-07	3.37E-05
1EB425B-BCC-LF	23	5.00E-04 (119.0)	8.10E-06 ( 64.5)	2.18E-07	3.25E-05
1EB422B-BCC-LF	23	5.00E-04 (119.0)	8.10E-06 ( 64.5)	2.18E-07	3.25E-05
1EB423B-B00-LF	23	5.00E-04 (119.0)	8.10E-06 ( 64.5)	2.18E-07	3.25E-05
1EB234B-BCC-LF	23	5.00E-04 (119.0)	8.10E-06 ( 64.5)	2.18E-07	3.25E-05
1EB432C-BCC-LF	22	5.00E-04 (119.0)	8.01E-06 ( 67.0)	2.17E-07	3.25E-05
HCSF015C-VCC-LF	22	5.00E-04 (119.0)	8.00E-06 ( 68.0)	2.15E-07	3.18E-05
1EB433C-B00-LF	21	5.00E-04 (119.0)	7.91E-06 ( 69.0)	2.16E-07	3.25E-05
HCSF004C-VCC-LF	21	5.00E-04 (119.0)	7.91E-06 ( 70.0)	2.15E-07	3.17E-05
DG2V10YB-M00-LF	12	3.00E-04 (147.5)	6.83E-06 ( 73.5)	1.88E-07	3.03E-05
DG2V09YB-MCC-LF	12	3.00E-04 (147.5)	6.83E-06 ( 73.5)	1.88E-07	3.03E-05
DG2V11YB-MCC-LF	12	3.00E-04 (147.5)	6.83E-06 ( 73.5)	1.88E-07	3.03E-05
DGHV02YC-M00-LF	12	3.00E-04 (147.5)	6.83E-06 ( 73.5)	1.88E-07	3.03E-05
DGHV03YC-MCC-LF	12	3.00E-04 (147.5)	6.83E-06 ( 73.5)	1.88E-07	3.03E-05
DGHV01YC-MCC-LF	12	3.00E-04 (147.5)	6.83E-06 ( 73.5)	1.88E-07	3.03E-05
DG2V03CB-FMS-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
1EB422B-BCC-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
DAV-H30-COM-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
SWVY02CC-FMS-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
SEVY03CB-FMS-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
1EB433C-B00-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
1EB432C-BCC-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
CSCC002-PMS-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
HCSC001C-PMS-CS	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
1EB425B-BCC-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
1EB423B-B00-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
1EB234B-BCC-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
DHV-MOD-COM-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
C2D0G01P-FMS-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
DGHV01CC-FMS-CC	16	2.50E-03 ( 69.0)	6.16E-06 ( 84.0)	1.53E-07	2.80E-05
HCSC001C-P-UUM	12	3.00E-03 ( 47.5)	6.07E-06 ( 93.0)	1.43E-07	2.68E-05
CSCC002-P-UUM	12	3.00E-03 ( 47.5)	6.07E-06 ( 93.0)	1.43E-07	2.68E-05
C2D0G01P-P-UUM	12	3.00E-03 ( 47.5)	6.07E-06 ( 93.0)	1.43E-07	2.68E-05
1EB16212-BC0	8	8.40E-05 (169.5)	5.99E-06 ( 96.5)	1.40E-07	2.66E-05
HC001CB-BC0-LF	8	8.40E-05 (169.5)	5.99E-06 ( 96.5)	1.40E-07	2.66E-05
CCBC002-BC0-LF	8	8.40E-05 (169.5)	5.99E-06 ( 96.5)	1.40E-07	2.66E-05

CCB2D91P-BCO-LF	8	8.40E-05 (169.5)	5.99E-06 (96.5)	1.40E-07	2.66E-05
DG2V11YB-M-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DG2V10YB-M-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DG2V09YB-M-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DG2V03CB-F-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
2DG1PK18-ROO-LFO	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
SWVY02CC-F-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
SEVY03CB-F-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
CSC02K18-ROO-LFO	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DGHV03YC-M-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DGHV02YC-M-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DGHV01YC-M-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DGHV01CC-F-UUM	8	5.00E-04 (119.0)	5.98E-06 (104.5)	1.40E-07	2.66E-05
DG2V03CB-FMS-LF	8	5.40E-04 (103.0)	5.98E-06 (112.5)	1.40E-07	2.66E-05
SEVY03CB-FMS-LF	8	5.40E-04 (103.0)	5.98E-06 (112.5)	1.40E-07	2.66E-05
SWVY02CC-FMS-LF	8	5.40E-04 (103.0)	5.98E-06 (112.5)	1.40E-07	2.66E-05
DGHV01CC-FMS-LF	8	5.40E-04 (103.0)	5.98E-06 (112.5)	1.40E-07	2.66E-05
1EK18ARC-ROO-LFO	8	5.80E-04 (97.0)	5.98E-06 (115.0)	1.40E-07	2.66E-05
SWVY02AX-ACX-LF1	8	8.40E-04 (89.5)	5.98E-06 (116.5)	1.40E-07	2.65E-05
SEVY03AX-ACX-LF1	8	8.40E-04 (89.5)	5.98E-06 (116.5)	1.40E-07	2.65E-05
1EB1Y22X-BCO	7	7.20E-05 (186.0)	5.67E-06 (119.5)	1.22E-07	2.73E-05
1EB1Y13X-BCO	7	7.20E-05 (186.0)	5.67E-06 (119.5)	1.22E-07	2.73E-05
1EB235XA-BCO-LF	7	7.20E-05 (186.0)	5.67E-06 (119.5)	1.22E-07	2.73E-05
1EB235A-BCO-LF	7	7.20E-05 (186.0)	5.67E-06 (119.5)	1.22E-07	2.73E-05
1EB36YB-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB212YX-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB36Y1X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB1312X-BCO	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB36XB-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
36X28D3X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB36X3X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB1311X-BCO	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
2431B6DX-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB2Y22X-BCO	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
SWVB001X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
SEVR001X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB2Y14X-BCO	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
DAVB002X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
DAVB001X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB43C-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB236B-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB1315X-BCO	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
DHVB002X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
DHVB001X-BCO-LF	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
1EB1313X-BCO	5	7.20E-05 (186.0)	4.11E-06 (132.0)	1.06E-07	1.93E-05
RA-1-1-10H	11	2.10E-03 (82.5)	3.41E-06 (143.0)	3.46E-09	4.32E-05
HACTK22CP1-LFOC	4	2.00E-04 (166.0)	3.16E-06 (144.0)	7.09E-08	2.14E-05
HCSF023C-VCO-CS	4	2.40E-04 (163.5)	3.16E-06 (145.5)	7.09E-08	2.14E-05
HCSF001C-VOC-CS	4	2.40E-04 (163.5)	3.16E-06 (145.5)	7.09E-08	2.14E-05
C00G01F-S-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
AP251X2CP4-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
AP040X2CP7-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05

AP039X2CP4-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
ZDGO1PSC-000-LFO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
ZDGO1PK18CA-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
SWVY02AX-A-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
Z2C1AAX-A00-LFO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
SEVY03AX-A-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
1EK18ABCP6-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
1E433AAX-A00-LFO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
1EK18A18CP6-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
CSCD300-S-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.08E-08	2.14E-05
HCSF015C-V-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.08E-08	2.14E-05
HCSF004C-V-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.08E-08	2.14E-05
HCSF007C-V-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
CS02K18CP5-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
1E4327NYCP2-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
1E4327NYCP2-LFOO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
CC0025C-000-LFO	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
C2DGO1F-S-UUM	4	3.00E-04 (147.5)	3.16E-06 (157.0)	7.09E-08	2.14E-05
1EB35Y2X-BCO-LF	3	7.20E-05 (186.0)	2.25E-06 (168.5)	4.29E-08	1.08E-05
1EB235YA-BCO-LF	3	7.20E-05 (186.0)	2.25E-06 (168.5)	4.29E-08	1.08E-05
RA-1-3-BH	43	2.60E-03 ( 55.0)	1.29E-06 (170.0)	9.49E-09	1.34E-05
EE-MDP-PSW-BC-R	10	3.30E-01 ( 10.0)	9.25E-07 (172.0)		
EE-MDC-IAS-CB-R	10	3.30E-01 ( 10.0)	9.25E-07 (172.0)		
EE-MDC-IAS-AB-R	10	3.30E-01 ( 10.0)	9.25E-07 (172.0)		
OPFALSCDS-DE-BH	10	3.40E-01 ( 8.0)	9.19E-07 (174.0)	1.15E-08	4.35E-06
RHRC003B-P-UUM	6	3.00E-03 ( 47.5)	5.13E-07 (175.0)	1.97E-09	1.54E-06
RA-1-3-13H	11	2.60E-03 ( 55.0)	5.01E-07 (176.0)	4.32E-09	1.47E-06
RA-15-BH	6	4.50E-01 ( 7.0)	4.34E-07 (177.0)	1.04E-08	1.81E-06
LAK3BRCB-BCO-LFO	6	3.40E-03 ( 44.0)	4.14E-07 (178.0)	1.90E-09	1.12E-06
RA-9-8H	740	6.00E-01 ( 4.0)	4.03E-07 (179.0)	2.85E-09	3.30E-06
D0VB202X-BCO-LF	58	2.00E-02 ( 26.5)	3.81E-07 (181.5)	1.43E-09	1.80E-06
D0VB201X-BCO-LF	58	2.00E-02 ( 26.5)	3.81E-07 (181.5)	1.43E-09	1.80E-06
D0VB102X-BCO-LF	58	2.00E-02 ( 26.5)	3.81E-07 (181.5)	1.43E-09	1.80E-06
D0VB101X-BCO-LF	58	2.00E-02 ( 26.5)	3.81E-07 (181.5)	1.43E-09	1.80E-06
LPCI-PMS-CM	4	2.50E-03 ( 69.0)	3.47E-07 (184.0)	3.77E-09	2.56E-06
LAK10RCA-ROO-LFO	5	2.00E-02 ( 26.5)	2.82E-07 (185.0)	1.39E-09	7.03E-07
HACTK3-ROO-LFO	27	2.00E-02 ( 26.5)	2.71E-07 (186.0)	5.99E-09	6.52E-07
HACTK9-ROO-LFO	26	2.00E-02 ( 26.5)	2.69E-07 (187.0)	5.93E-09	6.48E-07
TSCDSS0PERCENT	1	5.00E-01 ( 6.0)	1.73E-07 (188.0)		
RA-9-2H	1157	8.70E-01 ( 3.0)	1.48E-07 (189.0)	2.45E-10	7.25E-07
RA-1-3-10H	8	2.60E-03 ( 55.0)	1.46E-07 (190.0)	1.74E-10	3.84E-07
LPCI-MOV-CM2	3	2.50E-03 ( 69.0)	7.66E-08 (191.5)	1.23E-09	4.97E-07
LPCI-MOV-CM1	3	2.50E-03 ( 69.0)	7.66E-08 (191.5)	1.23E-09	4.97E-07
AP037X3-ROO-LFO	22	2.00E-02 ( 26.5)	6.36E-08 (193.0)	1.56E-10	2.70E-07
AP040X3-ROO-LFO	12	2.00E-02 ( 26.5)	3.59E-08 (194.0)	1.39E-10	1.46E-07
LPCI-MOV-BETA	6	3.00E-02 ( 14.0)	1.24E-08 (195.0)	3.99E-11	6.02E-08
RA-9-10H	20	5.50E-01 ( 5.0)	9.21E-09 (196.0)	1.69E-11	4.43E-08
LPCI-BETA	4	1.10E-01 ( 12.5)	7.04E-09 (197.0)	1.84E-11	6.32E-08
RA-NONE	7	1.00E+00 ( 1.5)	0.00E+00 (198.5)		
EE-CST-LVL	26	1.00E+00 ( 1.5)	0.00E+00 (198.5)		



SEQUENCE T62  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
DAV-MOD-COM-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
DG2V03CB-FMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
CGDG01P-PMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB432C-BCC-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB427B-BOO-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
LPCI-PMS-CM	4	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
DG1V01CC-FMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
DGV-MOD-COM-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
LPCI-MOV-CM2	3	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB413A-BOO-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
SWY02CC-FMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
HCSC001C-PMS-CS	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB422B-BCC-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB425B-BCC-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
SEVY03CB-FMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB433C-BOO-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB234B-BCC-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
C2DGG1P-PMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
LPCI-MGV-CM1	3	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB233A-BCC-AS	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
1EB412A-BCC-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
CSCC002-PMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
DGCCOOL-PMS-CM	6	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
DHV-MOD-COM-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
DG0V01CA-FMS-CC	16	2.50E-03 ( 69.0)	29.8 ( 13.0)	2.55	0.82
DG2A-GEN-LF-FTR	349	1.90E-02 ( 35.0)	12.9 ( 27.0)	1.22	0.83
DG0-GEN-LF-FTR	453	1.90E-02 ( 35.0)	12.9 ( 27.0)	1.22	0.83
DG2B-GEN-LF-FTR	339	1.90E-02 ( 35.0)	12.9 ( 27.0)	1.22	0.83
RA-8-BH	927	2.70E-02 ( 15.0)	10.6 ( 29.0)	1.12	0.94
RA-8-10H	1194	2.00E-02 ( 26.5)	10.4 ( 30.0)	1.07	0.82
DG2A-GEN-LF-FTS	385	2.50E-02 ( 17.5)	10.2 ( 32.5)	0.99	0.90
DG2B-GEN-LF-FTS	375	2.50E-02 ( 17.5)	10.2 ( 32.5)	0.99	0.90
DG0-GEN-LF-FTS	539	2.50E-02 ( 17.5)	10.2 ( 32.5)	0.99	0.90
DGX-GEN-CM-FTS	6	2.50E-02 ( 17.5)	10.2 ( 32.5)	0.99	0.90
AP037X3-ROO-LFO	22	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
LAK10RCA-ROO-LFO	5	2.00E-02 ( 26.5)	9.1 ( 37.0)	1.19	0.87
AP040X2-ROO-LFO	260	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
AP039X2-ROO-LFO	261	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
1E4327NY-ROO-LFO	264	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
HACTK9-ROO-LFO	26	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
AP040X3-ROO-LFO	12	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
1E4327NX-ROO-LFO	264	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
HACTK3-ROO-LFO	27	2.00E-02 ( 26.5)	9.1 ( 39.0)	1.19	0.87
ZDG1PK18-ROO-LFO	8	5.00E-04 (119.0)	9.0 ( 44.5)	1.00	1.00
CSC02K18-ROO-LFO	8	5.00E-04 (119.0)	9.0 ( 44.5)	1.00	1.00

LAK3URCB-ROO-LFO	6	3.40E-03 ( 44.0)	9.0	( 46.0)	1.00	1.00
TEK1BARC-ROO-LFO	8	5.80E-04 ( 97.0)	8.7	( 47.0)	1.00	1.00
LPCI-BETA	4	1.10E-01 ( 12.5)	3.1	( 48.5)	0.98	0.95
DGCOOL-BETA	6	1.10E-01 ( 12.5)	3.1	( 48.5)	0.98	0.95
CSCC002-PMS-LF	28	1.10E-03 ( 86.5)	2.9	( 51.5)	1.01	1.00
HCSC001C-PMS-LF	28	1.10E-03 ( 86.5)	2.9	( 51.5)	1.01	1.00
C2D001P-PMS-LF	35	1.10E-03 ( 86.5)	2.9	( 51.5)	1.01	1.00
C0D001P-PMS-LF	39	1.10E-03 ( 86.5)	2.9	( 51.5)	1.01	1.00
LCSC002A-P-UUM	60	3.00E-03 ( 47.5)	2.9	( 54.5)	1.01	1.00
RHRC003B-P-UUM	6	3.00E-03 ( 47.5)	2.9	( 54.5)	1.01	1.00
DG2V09YB-M-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG2V03CB-F-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG0V03YA-M-UUM	12	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG2V11YB-M-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG0V01YA-M-UUM	12	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
SWVY02CC-F-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG0V02YA-M-UUM	12	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
SEVY03CB-F-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DGHV01YC-M-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG2V10YB-M-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG0V01CA-F-UUR*	12	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DGHV03YC-M-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DGHV02YC-M-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DGHV11CC-F-UUM	8	5.00E-04 (119.0)	2.8	( 62.5)	1.00	1.00
DG2L G-UUM	79	6.00E-03 ( 39.0)	2.7	( 71.0)	0.99	0.98
DG2A-G-UUM	80	6.00E-03 ( 39.0)	2.7	( 71.0)	0.99	0.98
DG0-G-UUM	91	6.00E-03 ( 39.0)	2.7	( 71.0)	0.99	0.98
1EB412A-BCC-LF	33	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB433C-BOO-LF	21	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB432C-BCC-LF	22	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB413A-BOO-LF	34	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB425B-BCC-LF	23	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB423B-BOO-LF	23	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB234B-BCC-LF	23	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB422B-BCC-LF	23	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
1EB233A-BCC-LF	33	5.00E-04 (119.0)	2.4	( 77.0)	1.01	1.01
RA-1-3-10H	8	2.60E-03 ( 55.0)	2.2	( 83.0)	1.00	1.00
RA-1-3-13H	11	2.60E-03 ( 55.0)	2.2	( 83.0)	1.00	1.00
RA-1-3-8H	43	2.60E-03 ( 55.0)	2.2	( 83.0)	1.00	1.00
DG2B-GEN-CC-FTS	84	3.70E-03 ( 42.0)	2.1	( 86.0)	1.03	1.02
DG2A-GEN-CC-FTS	86	3.70E-03 ( 42.0)	2.1	( 86.0)	1.03	1.02
DG0-GEN-CC-FTS	112	3.70E-03 ( 42.0)	2.1	( 86.0)	1.03	1.02
DG2B-GEN-CC-FTR	70	2.80E-03 ( 52.0)	1.9	( 89.0)	1.02	0.97
DG2A-GEN-CC-FTR	74	2.80E-03 ( 52.0)	1.9	( 89.0)	1.02	0.97
DG0-GEN-CC-FTR	99	2.80E-03 ( 52.0)	1.9	( 89.0)	1.02	0.97
DG2V03CB-FMS-LF	8	5.40E-04 (103.0)	1.8	( 93.0)	1.00	1.00
SEVY03CB-FMS-LF	8	5.40E-04 (103.0)	1.8	( 93.0)	1.00	1.00
DG0V01CA-FMS-LF	12	5.40E-04 (103.0)	1.8	( 93.0)	1.00	1.00
SWVY02CC-FMS-LF	8	5.40E-04 (103.0)	1.8	( 93.0)	1.00	1.00
DGHV01CC-FMS-LF	8	5.40E-04 (103.0)	1.8	( 93.0)	1.00	1.00
RA-15-8H	6	4.50E-01 ( 7.0)	1.8	( 96.0)	0.99	1.00
HCSF004C-V-UUM	4	3.00E-04 (147.5)	1.5	( 98.0)	1.00	1.00

HCSF001C-V-UUM	4	3.00E-04	(147.5)	1.5	( 98.0)	1.00	1.00
HCSF015C-V-UUM	4	3.00E-04	(147.5)	1.5	( 98.0)	1.00	1.00
DG0V01CA-RUM-D	24	1.40E-03	( 84.0)	1.4	(100.0)	1.00	1.00
HCSF015C-VCC-LF	22	5.00E-04	(119.0)	1.3	(101.5)	1.00	1.00
HCSF004C-VCC-LF	21	5.00E-04	(119.0)	1.3	(101.5)	1.00	1.00
C00G01F-S-UUM	4	3.00E-04	(147.5)	1.3	(105.0)	1.00	1.00
SEVY03AX-A-UUM	4	3.00E-04	(147.5)	1.3	(105.0)	1.00	1.00
CSCD30C-S-UUM	4	3.00E-04	(147.5)	1.3	(105.0)	1.00	1.00
SWVY02AX-A-UUM	4	3.00E-04	(147.5)	1.3	(105.0)	1.00	1.00
C2D0G01F-S-UUM	4	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DG2V11YB-MCC-LF	12	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DG2V10YB-MCC-LF	12	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DG2V09YB-MCC-LF	12	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DG0V03YA-MCC-LF	20	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DG0V02YA-MCC-LF	20	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DG0V01YA-MCC-LF	20	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DGRV03YC-MCC-LF	12	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DGRV02YC-MCC-LF	12	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
DGRV01YC-MCC-LF	12	3.00E-04	(147.5)	1.3	(112.0)	0.99	1.00
1EB361B-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB212X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB361X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB1312X-BCO	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB361B-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
36X2803X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB361X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB1Y22X-BCO	7	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB35Y2X-BCO-LF	3	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
2431B60X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB2Y22X-BCO	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB1Y13X-BCO	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
SWVB001X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB1311X-BCO	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1CD2Y14X-BCO	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
DAVB001X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB43C-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
DAVB002X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB236B-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB235YA-BCO-LF	3	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB235XA-BCO-LF	7	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB235A-BCO-LF	7	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
SEVB001X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB1315X-BCO	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
DHVB002X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
DHVB001X-BCO-LF	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB1313X-BCO	5	7.20E-05	(186.0)	1.2	(130.0)	1.00	1.00
1EB16212-BCO	8	8.40E-05	(169.5)	1.0	(146.5)	1.00	1.00
1EB16211-BCO	12	8.40E-05	(169.5)	1.0	(146.5)	1.00	1.00
HC001CB-BCO-LF	8	8.40E-05	(169.5)	1.0	(146.5)	1.00	1.00
CCBC002-BCO-LF	8	8.40E-05	(169.5)	1.0	(146.5)	1.00	1.00
CCB2G1P-BCO-LF	8	8.40E-05	(169.5)	1.0	(146.5)	1.00	1.00
CCB0001P-BCO-LF	12	8.40E-05	(169.5)	1.0	(146.5)	1.00	1.00

AP251X2CP4-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
AP040X2CP7-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
AP039X2CP4-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
ZD001PSC-000-LF0	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
ZD001FK15CA-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
Z2C1AAX-ADG-LF0	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
1EK18ABC06-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
1EK18A18CP6-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
1E433AAX-AD0-LF0	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
CSC02K18CPS-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
1E4327NYCP2-LF00	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
CC002SC-000-LF0	4	3.00E-04	(147.5)	0.4	(156.0)	1.00
C00G01P-I-UUM	16	3.00E-03	(47.5)	0.0	(178.0)	1.00
C00G01F-PLG-LF	43	5.80E-04	(97.0)	0.0	(178.0)	1.00
DG2V02FX-KLN-LFB	27	5.80E-04	(97.0)	0.0	(178.0)	1.00
DG0V01FX-KLN-LFB	40	5.80E-04	(97.0)	0.0	(178.0)	1.00
SWV02AX-ACX-LF1	8	8.40E-04	(89.5)	0.0	(178.0)	1.00
SEVY03AX-ACX-LF1	8	8.40E-04	(89.5)	0.0	(178.0)	1.00
RLOSP	29	2.10E-04	(165.0)	0.0	(178.0)	1.00
RA-9-8H	740	6.00E-01	(4.0)	0.0	(178.0)	1.00
RA-9-2H	1157	8.70E-01	(3.0)	0.0	(178.0)	1.00
DG-FTS-BETA	6	1.20E-02	(37.0)	0.0	(178.0)	1.00
RA-9-10H	20	5.50E-01	(5.0)	0.0	(178.0)	1.00
RA-1-1-10H	11	2.10E-03	(82.5)	0.0	(178.0)	1.00
D0VB202X-BC0-LF	58	2.00E-02	(26.5)	0.0	(178.0)	1.00
OPFA1LSCDS-DE-8M	10	3.40E-01	(8.0)	0.0	(178.0)	1.00
D0VB201X-BC0-LF	58	2.00E-02	(26.5)	0.0	(178.0)	1.00
D0VB102X-BC0-LF	58	2.00E-02	(26.5)	0.0	(178.0)	1.00
LPCI-MOV-BETA	6	3.00E-02	(14.0)	0.0	(178.0)	1.00
D0VB101X-BC0-LF	58	2.00E-02	(26.5)	0.0	(178.0)	1.00
HCSF023C-VCO-CS	4	2.40E-04	(163.5)	0.0	(178.0)	1.00
CSC0300-PLG-LF	30	5.80E-04	(97.0)	0.0	(178.0)	1.00
HCSF001C-VOC-CS	4	2.40E-04	(163.5)	0.0	(178.0)	1.00
CSCC002-P-UUM	12	3.00E-03	(47.5)	0.0	(178.0)	1.00
HCS001C-P-UUM	12	3.00E-03	(47.5)	0.0	(178.0)	1.00
HACTK22CP1-LFOC	4	2.00E-04	(166.0)	0.0	(178.0)	1.00
CRD-REALIGN-DE	1	2.10E-03	(82.5)	0.0	(178.0)	1.00
EE-CSCD300-PLG	62	7.20E-04	(92.0)	0.0	(178.0)	1.00
EE-C2D0G01F-PLG	76	7.20E-04	(92.0)	0.0	(178.0)	1.00
EE-C0D0G01F-PLG	12	3.00E-03	(47.5)	0.0	(178.0)	1.00
C2D0G01P-P-UUM	27	5.80E-04	(97.0)	0.0	(178.0)	1.00
DGHV01FX-KLN-LFB	38	5.80E-04	(97.0)	0.0	(178.0)	1.00
C2D0G01F-PLG-LF	1	5.00E-01	(6.0)	0.0	(178.0)	1.00
TSCDSSPERCENT	7	1.00E+00	(1.5)	0.0	(178.0)	1.00
RA-NONE	10	3.30E-01	(10.0)	0.0	(178.0)	1.00
EE-MDP-PSW-BC-R	10	3.30E-01	(10.0)	0.0	(178.0)	1.00
EE-MDC-IAS-CB-R	10	3.30E-01	(10.0)	0.0	(178.0)	1.00
EE-MDC-IAS-AB-R	10	3.30E-01	(10.0)	0.0	(178.0)	1.00
EE-CST-LVL	26	1.00E+00	(1.5)	0.0	(178.0)	1.00

SEQUENCE T62

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT PDS-T-SEQ3E WITH TOP EVENT FREQUENCY 4.77E-06

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	4	7.13E-07	0.149	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	IE-LDSP	*	RA-B-8H	*
3	2	5	4.68E-07	0.24754	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	IE-T101	*	OPFAILSCDS-OE-8M	*
4					RA-NONE	+						
5	3	5	4.54E-07	0.34270	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	EE-MDC-IAS-AB-R	*	IE-T101	*
6					RA-NONE	+						
7	5	5	4.54E-07	0.43786	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	EE-MDP-PSW-BC-R	*	IE-T101	*
8					RA-NONE	+						
9	4	5	4.54E-07	0.53302	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	EE-MDC-IAS-CB-R	*	IE-T101	*
10					RA-NONE	+						
11	6	5	3.50E-07	0.60641	DG-FTS-BETA	*	DGX-GEN-CM-FTS	*	IE-LDSP	*	RA-15-8H	*
12					RA-B-8H	+						
13	7	5	1.73E-07	0.64274	CRD-REALIGN-OE	*	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	IE-T5	*
14					T5CDS50PERCENT	+						
15	8	6	2.43E-08	0.64784	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LDSP	*
16					RA-B-8H	*	RA-9-8H	+				
17	10	6	1.98E-08	0.65200	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	IE-LDSP	*
18					RA-B-10H	*	RA-9-2H	+				
19	11	6	1.98E-08	0.65616	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LDSP	*
20					RA-B-10H	*	RA-9-2H	+				
21	9	6	1.98E-08	0.66032	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LDSP	*
22					RA-B-10H	*	RA-9-2H	+				
23	15	6	1.94E-08	0.66440	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LDSP	*
24					RA-B-8H	*	RA-9-8H	+				
25	12	6	1.94E-08	0.66848	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	IE-LDSP	*
26					RA-B-8H	*	RA-9-8H	+				
27	14	6	1.94E-08	0.67255	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	IE-LDSP	*
28					RA-B-8H	*	RA-9-8H	+				
29	13	6	1.94E-08	0.67663	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LDSP	*
30					RA-B-8H	*	RA-9-8H	+				
31	17	6	1.59E-08	0.67996	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	IE-LDSP	*
32					RA-B-10H	*	RA-9-2H	+				
33	18	6	1.59E-08	0.68329	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	IE-LDSP	*
34					RA-B-10H	*	RA-9-2H	+				
35	19	6	1.59E-08	0.68661	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	IE-LDSP	*
36					RA-B-10H	*	RA-9-2H	+				
37	16	6	1.59E-08	0.68994	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	IE-LDSP	*
38					RA-B-10H	*	RA-9-2H	+				
39	23	6	1.59E-08	0.69327	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LDSP	*
40					RA-B-10H	*	RA-9-2H	+				
41	22	6	1.59E-08	0.69660	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LDSP	*
42					RA-B-10H	*	RA-9-2H	+				
43	20	6	1.59E-08	0.69993	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	IE-LDSP	*
44					RA-B-10H	*	RA-9-2H	+				

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45	21	6	1.59E-08	0.70325	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	1E-LOSP	*
46					RA-B-10H	*	RA-9-2H	+				
47	25	6	1.56E-08	0.70652	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
48					RA-B-8H	*	RA-9-8H	+				
49	27	6	1.56E-08	0.70978	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
50					RA-B-8H	*	RA-9-8H	+				
51	26	6	1.56E-08	0.71304	1E4327NY-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
52					RA-B-8H	*	RA-9-8H	+				
53	24	6	1.56E-08	0.71630	1E4327NX-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	1E-LOSP	*
54					RA-B-8H	*	RA-9-8H	+				
55	29	6	1.51E-08	0.71946	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*
56					RA-B-10H	*	RA-9-2H	+				
57	30	6	1.51E-08	0.72262	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*
58					RA-B-10H	*	RA-9-2H	+				
59	28	6	1.51E-08	0.72579	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	1E-LCSP	*
60					RA-B-10H	*	RA-9-2H	+				
61	31	6	1.27E-08	0.72845	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	1E-LOSP	*
62					RA-B-10H	*	RA-9-2H	+				
63	34	6	1.27E-08	0.73111	1E4327NY-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	1E-LOSP	*
64					RA-B-10H	*	RA-9-2H	+				
65	33	6	1.27E-08	0.73377	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	1E-LOSP	*
66					RA-B-10H	*	RA-9-2H	+				
67	32	6	1.27E-08	0.73644	1E4327NX-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	1E-LOSP	*
68					RA-B-10H	*	RA-9-2H	+				
69	37	6	1.21E-08	0.73896	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*
70					RA-B-10H	*	RA-9-2H	+				
71	38	6	1.21E-08	0.74149	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTR	*	1E-LOSP	*
72					RA-B-10H	*	RA-9-2H	+				
73	36	6	1.21E-08	0.74402	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*
74					RA-B-10H	*	RA-9-2H	+				
75	35	6	1.21E-08	0.74655	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*
76					RA-B-10H	*	RA-9-2H	+				
77	39	6	1.15E-08	0.74896	DG0-GEN-LF-FTR	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*
78					RA-B-10H	*	RA-9-2H	+				
79	43	5	6.22E-09	0.75026	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-G-UUM	*	1E-LOSP	*
80					RA-B-8H	+						
81	42	5	6.22E-09	0.75157	1E4327NY-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-G-UUM	*	1E-LOSP	*
82					RA-B-8H	+						
83	41	5	6.22E-09	0.75287	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0-G-UUM	*	1E-LOSP	*
84					RA-B-8H	+						
85	40	5	6.22E-09	0.75417	1E4327NX-ROO-LFO	*	AP039X2-ROO-LFO	*	DG0-G-UUM	*	1E-LOSP	*
86					RA-B-8H	+						
87	46	6	5.83E-09	0.75540	DG0-G-UUM	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
88					RA-B-8H	*	RA-9-8H	+				
89	45	6	5.83E-09	0.75662	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	DG2B-G-UUM	*	1E-LOSP	*
90					RA-B-8H	*	RA-9-8H	+				
91	44	6	5.83E-09	0.75784	DG0-GEN-LF-FTS	*	DG2A-G-UUM	*	DG2B-GEN-LF-FTS	*	1E-LOSP	*
92					RA-B-8H	*	RA-9-8H	+				
93	47	6	4.76E-09	0.75884	DG0-G-UUM	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*
94					RA-B-10H	*	RA-9-2H	+				
95	48	6	4.76E-09	0.75984	DG0-GEN-LF-FTS	*	DG2A-G-UUM	*	DG2B-GEN-LF-FTR	*	1E-LOSP	*
96					RA-B-10H	*	RA-9-2H	+				



149	75	6	3.44E-09	0.78331	DG-FTS-BETA	* DGX-GEN-CM-FTS	* 1E-T1	* RA-15-BH	*
150					RA-8-8H	* RLOSP	+		*
151	81	6	2.94E-09	0.78393	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
152					RA-8-10H	* RA-9-2H	+		*
153	78	6	2.94E-09	0.78455	DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
154					RA-8-10H	* RA-9-2H	+		*
155	79	6	2.94E-09	0.78516	DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
156					RA-8-10H	* RA-9-2H	+		*
157	76	6	2.94E-09	0.78578	DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
158					RA-8-10H	* RA-9-2H	+		*
159	77	6	2.94E-09	0.78639	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
160					RA-8-10H	* RA-9-2H	+		*
161	80	6	2.94E-09	0.78701	DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
162					RA-8-10H	* RA-9-2H	+		*
163	82	6	2.92E-09	0.78762	DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
164					RA-8-10H	* RA-9-2H	+		*
165	83	6	2.92E-09	0.78823	DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
166					RA-8-10H	* RA-9-2H	+		*
167	84	6	2.92E-09	0.78885	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DG2B-GEN-CC-FTR	* 1E-LOSP	*
168					RA-8-10H	* RA-9-2H	+		*
169	87	6	2.92E-09	0.78946	COG01P-P-UUM	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
170					RA-8-8H	* RA-9-8H	+		*
171	85	5	2.92E-09	0.79007	CSCC002-P-UUM	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
172					RA-8-8H	* RA-9-8H	+		*
173	86	6	2.92E-09	0.79068	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* HCSC001C-P-UUM	* 1E-LOSP	*
174					RA-8-8H	* RA-9-8H	+		*
175	88	6	2.92E-09	0.79129	C2DG01P-P-UUM	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
176					RA-8-8H	* RA-9-8H	+		*
177	90	6	2.88E-09	0.79190	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTS	* 1E-LOSP	*
178					RA-8-8H	* RA-9-8H	+		*
179	89	6	2.88E-09	0.79250	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTS	* 1E-LOSP	*
180					RA-8-8H	* RA-9-8H	+		*
*91	91	6	2.88E-09	0.79310	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
182					RA-8-8H	* RA-9-8H	+		*
183	92	6	2.88E-09	0.79371	AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
184					RA-8-8H	* RA-9-8H	+		*
185	95	5	2.88E-09	0.79431	1E4327NX-ROO-LFO	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
186					RA-8-8H	* RA-9-8H	+		*
187	94	6	2.88E-09	0.79471	AP040X2-ROO-LFO	* DGO-GEN-CC-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
188					RA-8-8H	* RA-9-8H	+		*
189	96	6	2.88E-09	0.79552	AP039X2-ROO-LFO	* DGO-GEN-CC-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
190					RA-8-8H	* RA-9-8H	+		*
191	93	6	2.83E-09	0.79612	1E4327NY-ROO-LFO	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
192					RA-8-8H	* RA-9-8H	+		*
193	98	6	2.43E-09	0.79663	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	* RA-8-8H	*
194					RA-9-8H	* SEVY03CB-FMS-CC	+		*
195	97	6	2.43E-09	0.79714	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* 1E-LOSP	* RA-8-8H	*
196					RA-9-8H	* SWVY02CC-FMS-CC	+		*
197					1EB423B-BOO-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
198	114	6	2.43E-09	0.79765	RA-8-8H	* RA-9-8H	+		*
199	113	6	2.43E-09	0.79816	1EB422B-BCC-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
200					RA-8-8H	* RA-9-8H	+		*



201	111	6	2.43E-09	0.79967	DDV-MXD-COM-CC	* DGZA-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
202					RA-8-BH	* RA-9-BH		
203	116	6	2.43E-09	0.79918	DAV-MXD-COM-CC	* DGD-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
204					RA-8-BH	* RA-9-BH		
205	115	6	2.43E-09	0.79969	TEB2348-BCC-CC	* DGD-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
206					RA-8-BH	* RA-9-BH		
207	110	6	2.43E-09	0.80020	TEB412A-BCC-CC	* DGZA-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
208					RA-8-BH	* RA-9-BH		
209	108	6	2.43E-09	0.80071	DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTS	* HCSC001C-PMS-CS	* IE-LOSP
210					RA-8-BH	* RA-9-BH		
211	103	6	2.43E-09	0.80122	CGD001P-PMS-CC	* DGZA-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
212					RA-8-BH	* RA-9-BH		
213	105	6	2.43E-09	0.80173	TEB233A-BCC-AS	* DGZA-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
214					RA-8-BH	* RA-9-BH		
215	109	6	2.43E-09	0.80224	DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTS	* DGHV01CC-PMS-CC	* IE-LOSP
216					RA-8-BH	* RA-9-BH		
217	107	6	2.43E-09	0.80275	TEB432C-BCC-CC	* DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTS	* IE-LOSP
218					RA-8-BH	* RA-9-BH		
219	106	6	2.43E-09	0.80326	CGD001P-PMS-CC	* DGD-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
220					RA-8-BH	* RA-9-BH		
221	102	6	2.43E-09	0.80376	DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTS	* DMV-MXD-COM-CC	* IE-LOSP
222					RA-8-BH	* RA-9-BH		
223	101	6	2.43E-09	0.80427	DGD-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* DGZV03CB-FMS-CC	* IE-LOSP
224					RA-8-BH	* RA-9-BH		
225	99	6	2.43E-09	0.80478	TEB425B-BCC-CC	* DGD-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
226					RA-8-BH	* RA-9-BH		
227	112	6	2.43E-09	0.80529	CSCD002-PMS-CC	* DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTS	* IE-LOSP
228					RA-8-BH	* RA-9-BH		
229	100	6	2.43E-09	0.80580	DGDV01CA-FMS-CC	* DGZA-GEN-LF-FTS	* DGZL-GEN-LF-FTS	* IE-LOSP
230					RA-8-BH	* RA-9-BH		
231	104	6	2.43E-09	0.80631	TEB413A-B00-CC	* DGZA-GEN-LF-FTS	* DGZB-GEN-LF-FTS	* IE-LOSP
232					RA-8-BH	* RA-9-BH		
233	117	6	2.43E-09	0.80682	TEP473C-B00-CC	* DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTS	* IE-LOSP
234					RA-8-BH	* RA-9-BH		
235	118	6	2.38E-09	0.80732	CG700-P-UUM	* DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTR	* IE-LOSP
236					RA-8-10H	* RA-9-2H		
237	119	6	2.38E-09	0.80782	CG701P-P-UUM	* DGZA-GEN-LF-FTS	* DGZB-GEN-LF-FTR	* IE-LOSP
238					RA-8-10H	* RA-9-2H		
239	120	6	2.38E-09	0.80832	CG701P-P-UUM	* DGD-GEN-LF-FTS	* DGZB-GEN-LF-FTR	* IE-LOSP
240					RA-8-10H	* RA-9-2H		
241	123	6	2.38E-09	0.80882	DGD-GEN-LF-FTS	* DGZA-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP
242					RA-8-10H	* RA-9-2H		
243	121	6	2.38E-09	0.80932	CG701P-P-UUM	* DGZB-GEN-LF-FTS	* IE-LOSP	* LCSC002A-P-UUM
244					RA-8-10H	* RA-9-2H		
245	122	6	2.38E-09	0.80982	DGZA-GEN-LF-FTS	* DGZB-GEN-LF-FTR	* IE-LOSP	* LCSC002A-P-UUM
246					RA-8-10H	* RA-9-2H		
247	125	6	2.38E-09	0.81032	CSCD002-P-UUM	* DGD-GEN-LF-FTR	* DGZA-GEN-LF-FTS	* IE-LOSP
248					RA-8-10H	* RA-9-2H		
249	124	6	2.38E-09	0.81082	CG01P-P-UUM	* DGD-GEN-LF-FTR	* DGZB-GEN-LF-FTS	* IE-LOSP
250					RA-8-10H	* RA-9-2H		
251	126	6	2.38E-09	0.81132	DGZA-GEN-LF-FTR	* DGZA-GEN-LF-FTS	* HCSC001C-P-UUM	* IE-LOSP
252					RA-8-10H	* RA-9-2H		

253	127	6	2.38E-09	0.81181	C00G01P-P-UUM RA-8-10H	DG2A-GEN-LF-FTR RA-9-2H	DG2B-GEN-LF-FTS	IE-LOSP	*
254									
255	130	6	2.35E-09	0.81231	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-LF-FTR RA-9-2H	DG2A-GEN-CC-FTS	IE-LOSP	*
256									
257	131	6	2.35E-09	0.81280	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-CC-FTS RA-9-2H	DG2A-GEN-LF-FTR	IE-LOSP	*
258									
259	133	6	2.35E-09	0.81326	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-CC-FTS RA-9-2H	DG2A-GEN-LF-FTR	IE-LOSP	*
260									
261	134	6	2.35E-09	0.81378	AP039K2-R00-LFO RA-8-10H	DG0-GEN-LF-FTR RA-9-2H	DG2B-GEN-CC-FTS	IE-LOSP	*
262									
263	128	6	2.35E-09	0.81426	AP040K2-R00-LFO RA-8-10H	DG0-GEN-LF-FTR RA-9-2H	DG2B-GEN-CC-FTS	IE-LOSP	*
264									
265	132	6	2.35E-09	0.81477	AP039K2-R00-LFO RA-8-10H	DG0-GEN-CC-FTS RA-9-2H	DG2B-GEN-LF-FTR	IE-LOSP	*
266									
267	135	6	2.35E-09	0.81526	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-LF-FTR RA-9-2H	DG2A-GEN-CC-FTS	IE-LOSP	*
268									
269	129	6	2.35E-09	0.81575	AP040K2-R00-LFO RA-8-10H	DG0-GEN-CC-FTS RA-9-2H	DG2B-GEN-LF-FTR	IE-LOSP	*
270									
271	142	6	2.34E-09	0.81625	AP040K2-R00-LFO RA-8-10H	DG0-GEN-LF-FTS RA-9-2H	DG2B-GEN-CC-FTR	IE-LOSP	*
272									
273	139	6	2.34E-09	0.81674	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-LF-FTS RA-9-2H	DG2A-GEN-CC-FTR	IE-LOSP	*
274									
275	141	6	2.34E-09	0.81723	AP039K2-R00-LFO RA-8-10H	DG0-GEN-CC-FTR RA-9-2H	DG2B-GEN-LF-FTS	IE-LOSP	*
276									
277	143	6	2.34E-09	0.81772	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-CC-FTR RA-9-2H	DG2A-GEN-LF-FTS	IE-LOSP	*
278									
279	136	6	2.34E-09	0.81821	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-LF-FTS RA-9-2H	DG2B-GEN-CC-FTR	IE-LOSP	*
280									
281	140	6	2.34E-09	0.81870	AP040K2-R00-LFO RA-8-10H	DG0-GEN-CC-FTR RA-9-2H	DG2B-GEN-LF-FTS	IE-LOSP	*
282									
283	137	6	2.34E-09	0.81919	1E4327NY-R00-LFO RA-8-10H	DG0-GEN-CC-FTR RA-9-2H	DG2A-GEN-LF-FTS	IE-LOSP	*
284									
285	138	6	2.34E-09	0.81968	AP039K2-R00-LFO RA-8-10H	DG0-GEN-LF-FTS RA-9-2H	DG2B-GEN-CC-FTR	IE-LOSP	*
286									
287	145	6	2.33E-09	0.82017	AP039K2-R00-LFO RA-8-8H	DG0-GEN-LF-FTS RA-9-8H	HCSC001C-P-UUM	IE-LOSP	*
288									
289	144	6	2.33E-09	0.82066	AP040K2-R00-LFO RA-8-8H	DG0-GEN-LF-FTS RA-9-8H	HCSC001C-P-UUM	IE-LOSP	*
290									
291	152	6	2.33E-09	0.82115	AP040K2-R00-LFO RA-8-8H	C00G01P-P-UUM RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
292									
293	153	6	2.33E-09	0.82164	1E4327NY-R00-LFO RA-8-8H	C20G01P-P-UUM RA-9-8H	DG0-GEN-LF-FTS	IE-LOSP	*
294									
295	150	6	2.33E-09	0.82212	1E4327NY-R00-LFO RA-8-8H	C00G01P-P-UUM RA-9-8H	DG2A-GEN-LF-FTS	IE-LOSP	*
296									
297	148	6	2.33E-09	0.82261	AP039K2-R00-LFO RA-8-8H	CSCC002-P-UUM RA-9-8H	DG0-GEN-LF-FTS	IE-LOSP	*
298									
299	146	6	2.33E-09	0.82310	1E4327NY-R00-LFO RA-8-8H	C00G01P-P-UUM RA-9-8H	DG2A-GEN-LF-FTS	IE-LOSP	*
300									
301	147	6	2.33E-09	0.82359	1E4327NY-R00-LFO RA-8-8H	C20G01P-P-UUM RA-9-8H	DG0-GEN-LF-FTS	IE-LOSP	*
302									
303	149	6	2.33E-09	0.82418	AP039K2-R00-LFO RA-8-8H	C00G01P-P-UUM RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
304									

305	151	6	2.33E-09	0.82457	AP040X2-R00-LFO	CSC002-JUM	DG0-GEN-LF-FTS	IE-LOSP	*
306					RA-B-8H	RA-9-8H			*
307	156	5	2.30E-09	0.82505	1E4327N1-R00-LFO	AP039X2-R00-LFO	IF-LOSP	LCSC002A-P-UUM	*
308					RA-B-10H				*
309	157	5	2.30E-09	0.82554	1E4327N1-R00-LFO	AP040X2-R00-LFO	IE-LOSP	LCSC002A-P-UUM	*
310					RA-B-10H				*
311	154	5	2.30E-09	0.82602	1E4327N1-R00-LFO	AP040X2-R00-LFO	IE-LOSP	LCSC002A-P-UUM	*
312					RA-B-10H				*
313	155	5	2.30E-09	0.82650	1E4327N1-R00-LFO	AP039X2-R00-LFO	IE-LOSP	LCSC002A-P-UUM	*
314					RA-B-10H				*
315	150	6	2.30E-09	0.82699	1E4327N1-R00-LFO	AP039X2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP	*
316					RA-B-8H	RA-9-8H			*
317	159	6	2.30E-09	0.82747	1E4327N1-R00-LFO	AP039X2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP	*
318					RA-B-8H	RA-9-8H			*
319	158	6	2.30E-09	0.82795	1E4327N1-R00-LFO	AP040X2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP	*
320					RA-B-8H	RA-9-8H			*
321	161	6	2.30E-09	0.82843	1E4327N1-R00-LFO	AP040X2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP	*
322					RA-B-8H	RA-9-8H			*
323	164	6	2.23E-09	0.82890	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTS	IE-LOSP	*
324					RA-B-10H	RA-9-2H			*
325	162	6	2.23E-09	0.82937	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
326					RA-B-10H	RA-9-2H			*
327	163	6	2.23E-09	0.82984	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
328					RA-B-10H	RA-9-2H			*
329	166	6	2.22E-09	0.83030	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
330					RA-B-10H	RA-9-2H			*
331	165	6	2.22E-09	0.83077	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
332					RA-B-10H	RA-9-2H			*
333	169	6	2.22E-09	0.83124	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
334					RA-B-10H	RA-9-2H			*
335	168	6	2.22E-09	0.83170	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
336					RA-B-10H	RA-9-2H			*
337	167	6	2.22E-09	0.83217	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTR	IE-LOSP	*
338					RA-B-10H	RA-9-2H			*
339	170	6	2.22E-09	0.83263	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-CC-FTR	IE-LOSP	*
340					RA-B-10H	RA-9-2H			*
341	182	6	1.98E-09	0.83305	1E82348-BCC-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
342					RA-B-10H	RA-9-2H			*
343	184	6	1.98E-09	0.83347	C0D001P-PMS-CC	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
344					RA-B-10H	RA-9-2H			*
345	185	6	1.98E-09	0.83388	C2D001P-PMS-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
346					RA-B-10H	RA-9-2H			*
347	180	6	1.98E-09	0.83430	1E8233A-BCC-AS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
348					RA-B-10H	RA-9-2H			*
349	178	6	1.98E-09	0.83471	D0V-M00-COM-CC	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
350					RA-B-10H	RA-9-2H			*
351	177	6	1.98E-09	0.83513	DAV-M00-COM-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
352					RA-B-10H	RA-9-2H			*
353	181	6	1.98E-09	0.83555	1E84238-B0C-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	*
354					RA-B-10H	RA-9-2H			*
355	175	6	1.98E-09	0.83596	CSC002-PMS-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
356					RA-B-10H	RA-9-2H			*

357	171	6	1.98E-09	0.83638	1EB422B-BCC-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP
358					RA-8-10H	* RA-9-2H		
359	172	6	1.98E-09	0.83779	1EB412A-BCC-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP
360					RA-8-10H	* RA-9-2H		
361	176	6	1.98E-09	0.83721	1EB425B-BCC-CC	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP
362					RA-8-10H	* RA-9-2H		
363	183	6	1.98E-09	0.83763	1EB433C-800-CC	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP
364					RA-8-10H	* RA-9-2H		
365	175	6	1.98E-09	0.83894	DG0V01CA-FMS-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP
366					RA-8-10H	* RA-9-2H		
367	179	6	1.98E-09	0.83946	1EB413A-800-CC	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP
368					RA-8-10H	* RA-9-2H		
369	174	6	1.98E-09	0.83887	1EB432C-BCC-CC	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP
370					RA-8-10H	* RA-9-2H		
371	189	6	1.98E-09	0.83929	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-8-10H
372					RA-9-2H	* SMVY02CC-FMS-CC		
373	187	6	1.98E-09	0.83971	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP	* RA-8-10H
374					RA-9-2H	* SMVY02CC-FMS-CC		
375	188	6	1.98E-09	0.84012	DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	* RA-8-10H
376					RA-9-2H	* SEVY03CB-FMS-CC		
377	186	6	1.98E-09	0.84054	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	* RA-8-10H
378					RA-9-2H	* SEVY03CB-FMS-CC		
379	209	6	1.98E-09	0.84095	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP	* RA-8-10H
380					RA-8-10H	* RA-9-2H		
381	210	6	1.98E-09	0.84137	C2D07P-FMS-CC	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
382					RA-8-10H	* RA-9-2H		
383	204	6	1.98E-09	0.84179	C5CC002-FMS-CC	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP
384					RA-8-10H	* RA-9-2H		
385	207	6	1.98E-09	0.84220	DG0V01CA-FMS-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
386					RA-8-10H	* RA-9-2H		
387	208	6	1.98E-09	0.84262	1EB432C-BCC-CC	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP
388					RA-8-10H	* RA-9-2H		
389	206	6	1.98E-09	0.84303	1EB433C-800-CC	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP
390					RA-8-10H	* RA-9-2H		
391	212	6	1.98E-09	0.84345	1EB412A-BCC-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
392					RA-8-10H	* RA-9-2H		
393	192	6	1.98E-09	0.84387	1EB233A-BCC-AS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
394					RA-8-10H	* RA-9-2H		
395	201	6	1.98E-09	0.84428	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* HCSC001C-FMS-CS	* 1E-LOSP
396					RA-8-10H	* RA-9-2H		
397	205	6	1.98E-09	0.84470	1EB422B-BCC-CC	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
398					RA-8-10H	* RA-9-2H		
399	193	6	1.98E-09	0.84511	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* DGRV01CC-FMS-CC	* 1E-LOSP
400					RA-8-10H	* RA-9-2H		
401	199	6	1.98E-09	0.84553	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* DMV-MOD-COM-CC	* 1E-LOSP
402					RA-8-10H	* RA-9-2H		
403	195	6	1.98E-09	0.84595	1EB425B-BCC-CC	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
404					RA-8-10H	* RA-9-2H		
405	194	6	1.98E-09	0.84636	DGV-MOD-COM-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
406					RA-8-10H	* RA-9-2H		
407	196	6	1.98E-09	0.84678	1EB234B-BCC-CC	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP
408					RA-8-10H	* RA-9-2H		

409	197	6	1.98E-09	0.84719	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTR	DG2V03CB-FMS-CC	IE-LOSP	*
410					RA-B-10H	RA-9-2H			*
411	211	6	1.98E-09	0.84761	1E8413A-ROO-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
412					RA-B-10H	RA-9-2H			*
413	200	6	1.98E-09	0.84803	C00101P-PMS-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
414					RA-B-10H	RA-9-2H			*
415	191	6	1.98E-09	0.84844	DG2B-GEN-LF-FTS	DG2A-GEN-LF-FTR	DGRV01CC-FMS-CC	IE-LOSP	*
416					RA-B-10H	RA-9-2H			*
417	202	6	1.98E-09	0.84886	DG2B-GEN-LF-FTS	DG2A-GEN-LF-FTR	MCSC001C-PMS-CS	IE-LOSP	*
418					RA-B-10H	RA-9-2H			*
419	203	6	1.98E-09	0.84927	1E8423B-ROO-CC	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
420					RA-B-10H	RA-9-2H			*
421	190	6	1.98E-09	0.84969	DAV-MOD-COM-CC	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP	*
422					RA-B-10H	RA-9-2H			*
423	198	6	1.98E-09	0.85010	DG2B-GEN-LF-FTR	RA-9-2H	DG2V03CB-FMS-CC	IE-LOSP	*
424					RA-B-10H	RA-9-2H			*
425	213	6	1.98E-09	0.85052	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP		*
426					RA-B-10H	RA-9-10H			*
427	221	6	1.94E-09	0.85093	AP040X2-ROO-LFO	DG2B-GEN-LF-FTS	LCSC002A-P-UJM		*
428					RA-B-8H	RA-9-8H			*
429	217	6	1.94E-09	0.85134	AP039X2-ROO-LFO	DG2B-GEN-LF-FTS	MCSC001C-PMS-CS	IE-LOSP	*
430					RA-B-8H	RA-9-8H			*
431	219	6	1.94E-09	0.85174	AP039X2-ROO-LFC	DG2B-GEN-LF-FTS	DGRV01CC-FMS-CC	IE-LOSP	*
432					RA-L-8H	RF-9-8H			*
433	218	6	1.94E-09	0.85215	1E4327NY-ROO-LFO	DG2B-GEN-LF-FTS	MCSC001C-PMS-CS	IE-LOSP	*
434					RA-B-8H	RA-9-8H			*
435	216	6	1.94E-09	0.85256	AP040X2-ROO-LFO	DG2B-GEN-LF-FTS	DG2V03CB-FMS-CC	IE-LOSP	*
436					RA-B-8H	RA-9-8H			*
437	214	6	1.94E-09	0.85297	AP039X2-ROO-LFO	DG2B-GEN-LF-FTS	DGRV01CC-FMS-CC	IE-LOSP	*
438					RA-B-8H	RA-9-8H			*
439	220	6	1.94E-09	0.85337	1E4327NY-ROO-LFO	DG2B-GEN-LF-FTS	DG2V03CB-FMS-CC	IE-LOSP	*
440					RA-B-8H	RA-9-8H			*
441	215	6	1.94E-09	0.85378	AP040X2-ROO-LFO	DG2B-GEN-LF-FTS	DGRV-MOD-COM-CC	IE-LOSP	*
442					RA-B-8H	RA-9-8H			*
443	249	6	1.94E-09	0.85419	AP039X2-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP		*
444					RA-9-8H	SAWY02CC-FMS-CC			*
445	251	6	1.94E-09	0.85460	1E8412A-BCC-CC	AP039X2-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP	*
446					RA-B-8H	RA-9-8H			*
447	256	6	1.94E-09	0.85500	1E8433C-ROO-CC	AP039X2-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP	*
448					RA-B-8H	RA-9-8H			*
449	250	6	1.94E-09	0.85541	1E4327NY-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP		*
450					RA-9-8H	SEWY03CB-FMS-CC			*
451	255	6	1.94E-09	0.85582	AP039X2-ROO-LFO	DGV-MOD-COM-CC	DG2B-GEN-LF-FTS	IE-LOSP	*
452					RA-B-8H	RA-9-8H			*
453	253	6	1.94E-09	0.85623	AP040X2-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP		*
454					RA-9-8H	SAWY02CC-FMS-CC			*
455	242	6	1.94E-09	0.85664	1E4327NY-ROO-LFO	DAV-MOD-COM-CC	DG2B-GEN-LF-FTS	IE-LOSP	*
456					RA-B-8H	RA-9-8H			*
457	247	6	1.94E-09	0.85704	1E4327NY-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP		*
458					RA-9-8H	SEWY03CB-FMS-CC			*
459	254	6	1.94E-09	0.85745	1E4327NY-ROO-LFO	C00101P-PMS-CC	DG2A-GEN-LF-FTS	IE-LOSP	*
460					RT-B-8H	RA-9-8H			*

461	243	6	1.94E-09	0.85786	1E4327NX-R00-LFO	C00G01P-PMS-CC	DG2A-GEN-LF-FTS	IE-LOSP
462					RA-8-BH	RA-9-BH		
463	244	6	1.94E-09	0.85827	1E8432C-BCC-CC	AP039K2-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP
464					RA-8-BH	RA-9-BH		
465	246	6	1.94E-09	0.85867	1E4327NY-R00-LFO	1E8412A-BCC-CC	DG2A-GEN-LF-FTS	IE-LOSP
466					RA-8-BH	RA-9-BH		
467	252	6	1.94E-09	0.85908	1E8413A-B00-CC	AP040K2-R00-LFO	DG2B-GEN-LF-FTS	IE-LOSP
468					RA-8-BH	RA-9-BH		
469	228	6	1.94E-09	0.85949	1E4327NY-R00-LFO	1E8422B-BCC-CC	DG0-GEN-LF-FTS	IE-LOSP
470					RA-8-BH	RA-9-BH		
471	240	6	1.94E-09	0.85990	1E4327NY-R00-LFO	1E8423B-B00-CC	DG0-GEN-LF-FTS	IE-LOSP
472					RA-8-BH	RA-9-BH		
473	237	6	1.94E-09	0.86030	AP039K2-R00-LFO	C3CC002-PMS-CC	DG0-GEN-LF-FTS	IE-LOSP
474					RA-8-BH	RA-9-BH		
475	230	6	1.94E-09	0.86071	1E4327NX-R00-LFO	1E8233A-BCC-AS	DG2A-GEN-LF-FTS	IE-LOSP
476					RA-8-BH	RA-9-BH		
477	236	6	1.94E-09	0.86112	1E8432C-BCC-CC	AP040K2-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP
478					RA-8-BH	RA-9-BH		
479	234	6	1.94E-09	0.86153	1E4327NX-R00-LFO	1E8412A-BCC-CC	DG2A-GEN-LF-FTS	IE-LOSP
480					RA-8-BH	RA-9-BH		
481	239	6	1.94E-09	0.86194	AP040K2-R00-LFO	DG0V01CA-FMS-CC	DG2B-GEN-LF-FTS	IE-LOSP
482					RA-8-BH	RA-9-BH		
483	235	6	1.94E-09	0.86234	1E4327NY-R00-LFO	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTS	IE-LOSP
484					RA-8-BH	RA-9-BH		
485	233	6	1.94E-09	0.86275	1E8233A-BCC-AS	AP039K2-R00-LFO	DG2B-GEN-LF-FTS	IE-LOSP
486					RA-8-BH	RA-9-BH		
487	245	6	1.94E-09	0.86316	1E4327NY-R00-LFO	1E8234B-BCC-CC	DG0-GEN-LF-FTS	IE-LOSP
488					RA-8-BH	RA-9-BH		
489	231	6	1.94E-09	0.86357	1E8413A-B00-CC	AP039K2-R00-LFO	DG2B-GEN-LF-FTS	IE-LOSP
490					RA-8-BH	RA-9-BH		
491	241	6	1.94E-09	0.86397	1E4327NY-R00-LFO	1E8413A-B00-CC	DG2A-GEN-LF-FTS	IE-LOSP
492					RA-8-BH	RA-9-BH		
493	238	6	1.94E-09	0.86438	1E4327NX-R70-LFO	1E8413A-B00-CC	DG2A-GEN-LF-FTS	IE-LOSP
494					RA-8-BH	RA-9-BH		
495	223	6	1.94E-09	0.86479	1E4327NX-R00-LFO	C2DG01P-PMS-CC	DG0-GEN-LF-FTS	IE-LOSP
496					RA-8-BH	RA-9-BH		
497	222	6	1.94E-09	0.86520	1E4327NY-R00-LFO	1E8425B-BCC-CC	DG0-GEN-LF-FTS	IE-LOSP
498					RA-8-BH	RA-9-BH		
499	229	6	1.94E-09	0.86560	1E4327NY-R00-LFO	1E8233A-BCC-AS	DG2A-GEN-LF-FTS	IE-LOSP
500					RA-8-BH	RA-9-BH		
501	225	6	1.94E-09	0.86601	1E4327NX-R00-LFO	1E8234B-BCC-CC	DG0-GEN-LF-FTS	IE-LOSP
502					RA-8-BH	RA-9-BH		
503	226	6	1.94E-09	0.86642	1E4327NY-R00-LFO	D0V-M30-COM-CC	DG2A-GEN-LF-FTS	IE-LOSP
504					RA-8-BH	RA-9-BH		
505	232	6	1.94E-09	0.86683	AP039K2-R00-LFO	C00G01P-PMS-CC	DG2B-GEN-LF-FTS	IE-LOSP
506					RA-8-BH	RA-9-BH		
507	248	6	1.94E-09	0.86724	1E4327NY-R00-LFO	D0V-M30-COM-CC	DG0-GEN-LF-FTS	IE-LOSP
508					RA-8-BH	RA-9-BH		
509	224	6	1.94E-09	0.86764	1E4327NY-R00-LFO	C2DG01P-PMS-CC	DG0-GEN-LF-FTS	IE-LOSP
510					RA-8-BH	RA-9-BH		
511	227	6	1.94E-09	0.86805	AP040K2-R00-LFO	C00G01P-PMS-CC	DG2B-GEN-LF-FTS	IE-LOSP
512					RA-8-BH	RA-9-BH		

513	267	6	1.94E-09	0.86846	TE4327NX-ROO-LFO	1E84258-BCC-CC	DGD-GEN-LF-FTS	IE-LOSP	*
514	266	6	1.94E-09	0.86887	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
515	263	6	1.94E-09	0.86927	1E8412A-BCC-CC	AP040X2-ROO-LFO	DGD-GEN-LF-FTS	IE-LOSP	*
516	265	6	1.94E-09	0.86968	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
517	264	6	1.94E-09	0.87009	AP040X2-ROO-LFO	CSCC002-FMS-CC	DGD-GEN-LF-FTS	IE-LOSP	*
518	261	6	1.94E-09	0.87050	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
519	258	6	1.94E-09	0.87090	AP039X2-ROO-LFO	DG0V01CA-FMS-CC	DGD-GEN-LF-FTS	IE-LOSP	*
520	260	6	1.94E-09	0.87131	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
521	259	6	1.94E-09	0.87172	TE4327NX-ROO-LFO	1E84228-BCC-CC	DGD-GEN-LF-FTS	IE-LOSP	*
522	257	6	1.94E-09	0.87213	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
523	262	6	1.94E-09	0.87254	TE4327NX-ROO-LFO	1E84238-ROO-CC	DGD-GEN-LF-FTS	IE-LOSP	*
524	273	6	1.90E-09	0.87294	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
525	270	6	1.90E-09	0.87333	AP040X2-ROO-LFO	DGV-M00-COM-CC	DG2A-GEN-LF-FTS	IE-LOSP	*
526	269	6	1.90E-09	0.87373	1E8433C-ROO-CC	AP040X2-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP	*
527	268	6	1.90E-09	0.87413	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
528	272	6	1.90E-09	0.87453	TE4327NX-ROO-LFO	DGV-M00-COM-CC	DG2A-GEN-LF-FTS	IE-LOSP	*
529	271	6	1.90E-09	0.87493	RA-B-8H	RA-9-8H	DG2B-GEN-LF-FTS	IE-LOSP	*
530	281	6	1.90E-09	0.87533	1E8433A-BCC-AS	AP040X2-ROO-LFO	IE-LOSP	LCSC002A-P-UUM	*
531	280	6	1.90E-09	0.87573	RA-B-8H	RA-9-8H	IE-LOSP	LCSC002A-P-UUM	*
532	277	6	1.90E-09	0.87613	AP039X2-ROO-LFO	DG2B-GEN-LF-FTR	HCSC001C-P-UUM	IE-LOSP	*
533	276	6	1.90E-09	0.87653	RA-B-10H	RA-9-2H	IE-LOSP	LCSC002A-P-UUM	*
534	274	6	1.90E-09	0.87693	TE4327NX-ROO-LFO	DG2A-GEN-LF-FTR	IE-LOSP	LCSC002A-P-UUM	*
535	275	6	1.90E-09	0.87733	RA-B-10H	RA-9-2H	HCSC001C-P-UUM	IE-LOSP	*
536	278	6	1.90E-09	0.87773	AP040X2-ROO-LFO	C00G01P-P-UUM	DG2A-GEN-LF-FTR	IE-LOSP	*
537	279	6	1.90E-09	0.87813	RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
538	283	6	1.87E-09	0.87852	AP040X2-ROO-LFO	CSCC002-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
539	564				RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
540					AP039X2-ROO-LFO	C00G01P-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
541					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
542					TE4327NX-ROO-LFO	C20G01P-P-UUM	DG2A-GEN-LF-FTR	IE-LOSP	*
543					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
544					AP040X2-ROO-LFO	C00G01P-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
545					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
546					TE4327NX-ROO-LFO	C20G01P-P-UUM	DG2A-GEN-LF-FTR	IE-LOSP	*
547					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
548					AP040X2-ROO-LFO	CSCC002-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
549					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
550					AP040X2-ROO-LFO	C00G01P-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
551					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
552					TE4327NX-ROO-LFO	C20G01P-P-UUM	DG2A-GEN-LF-FTR	IE-LOSP	*
553					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
554					AP039X2-ROO-LFO	C00G01P-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
555					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
556					TE4327NX-ROO-LFO	C20G01P-P-UUM	DG2A-GEN-LF-FTR	IE-LOSP	*
557					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
558					AP039X2-ROO-LFO	C00G01P-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
559					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
560					TE4327NX-ROO-LFO	CSCC002-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
561					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*
562					AP039X2-ROO-LFO	C00G01P-P-UUM	DG2B-GEN-LF-FTR	IE-LOSP	*
563					TE4327NX-ROO-LFO	AP039X2-ROO-LFO	DGD-GEN-LF-FTR	IE-LOSP	*
564					RA-B-10H	RA-9-2H	DGD-GEN-LF-FTR	IE-LOSP	*

565	282	6	1.87E-09	0.87891	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-CC-FTR	IE-LOSP	*
566					RA-9-2H				*
567	285	6	1.87E-09	0.87930	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-CC-FTR	IE-LOSP	*
568					RA-9-2H				*
569	284	6	1.87E-09	0.87970	1E4327NY-R00-LFO	AP039X2-R00-LFO	DG0-GEN-CC-FTR	IE-LOSP	*
570					RA-9-2H				*
571	286	5	1.87E-09	0.88009	AP040X2-R00-LFO	DG0-G-UM	DG2B-G-UM	IE-LOSP	*
572					RA-8-8H				*
573	291	6	1.81E-09	0.88047	CSC002-P-UM	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	IE-LOSP	*
574					RA-8-10H				*
575	290	6	1.81E-09	0.88085	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	LCSC002A-P-UM	*
576					RA-8-10H				*
577	289	6	1.81E-09	0.88123	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	RCSC001C-P-UM	IE-LOSP	*
578					RA-8-10H				*
579	288	6	1.81E-09	0.88161	C20601P-P-UM	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
580					RA-8-10H				*
581	287	6	1.81E-09	0.88198	C00601P-P-UM	RA-9-2H	DG2B-GEN-LF-FTR	IE-LOSP	*
582					RA-8-10H				*
583	297	6	1.78E-09	0.88236	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	IE-LOSP	*
584					RA-8-10H				*
585	298	6	1.78E-09	0.88273	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-CC-FTR	IE-LOSP	*
586					RA-8-10H				*
587	299	6	1.78E-09	0.88310	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	IE-LOSP	*
588					RA-8-10H				*
589	295	6	1.78E-09	0.88345	AP039X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
590					RA-8-10H				*
591	294	6	1.78E-09	0.88385	1E4327NY-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	IE-LOSP	*
592					RA-8-10H				*
593	292	6	1.78E-09	0.88422	1E4327NY-R00-LFO	RA-9-2H	DG2A-GEN-LF-FTR	IE-LOSP	*
594					RA-8-10H				*
595	296	6	1.78E-09	0.88459	AP040X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
596					RA-8-10H				*
597	293	6	1.78E-09	0.88497	AP039X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-CC-FTR	IE-LOSP	*
598					RA-8-10H				*
599	302	6	1.69E-09	0.88532	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
600					RA-8-10H				*
601	300	6	1.69E-09	0.88567	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTR	IE-LOSP	*
602					RA-8-10H				*
603	301	6	1.69E-09	0.88603	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
604					RA-8-10H				*
605	306	6	1.59E-09	0.88636	AP040X2-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-8-10H	*
606					RA-9-2H	SMY02CC-FMS-CC			*
607	304	6	1.59E-09	0.88669	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-8-10H	*
608					RA-9-2H	SEY03CB-FMS-CC			*
609	303	6	1.59E-09	0.88703	AP039X2-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-8-10H	*
610					RA-9-2H	SMY02CC-FMS-CC			*
611	305	6	1.59E-09	0.88736	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	RA-8-10H	*
612					RA-9-2H	SEY03CB-FMS-CC			*
613	352	6	1.59E-09	0.88769	1E4327NY-R00-LFO	1E823A-8CC-AS	DG2A-GEN-LF-FTR	IE-LOSP	*
614					RA-8-10H				*
615	356	6	1.59E-09	0.88803	1E4327NY-R00-LFO	D0V-M00-C0M-CC	DG2A-GEN-LF-FTR	IE-LOSP	*
616					RA-8-10H				*



617	354	6	1.59E-09	0.88836	1E4327NY-R00-LFO	* COL01P-FMS-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP
618					RA-8-10H	* 5A-9-2H		
619	353	6	1.59E-09	0.88869	1E4327NX-R00-LFO	* 1E8423B-800-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
620					RA-8-10H	* RA-9-2H		
621	355	6	1.59E-09	0.88972	1E4327NY-R00-LFO	* DGG01CA-FMS-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP
622					RA-8-10H	* RA-9-2H		
623	350	6	1.59E-09	0.88936	1E4327NX-R00-LFO	* LAV-M00-COM-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
624					RA-8-10H	* RA-9-2H		
625	349	6	1.59E-09	0.88969	1E4327NX-R00-LFO	* C00G01P-FMS-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP
626					RA-8-10H	* RA-9-2H		
627	348	6	1.59E-09	0.89002	1E4327NY-R00-LFO	* 1E8422B-BCC-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
628					RA-8-10H	* RA-9-2H		
629	343	6	1.59E-09	0.89036	AP040X2-R00-LFO	* DGG-GEN-LF-FTR	* DHV-M00-COM-CC	* 1E-LOSP
630					RA-8-10H	* RA-9-2H		
631	344	6	1.59E-09	0.89069	AP039X2-R00-LFO	* DGG-GEN-LF-FTR	* DHV-M00-COM-CC	* 1E-LOSP
632					RA-8-10H	* RA-9-2H		
633	347	6	1.59E-09	0.89102	1E4327NX-R00-LFO	* 1E8422B-BCC-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
634					RA-8-10H	* RA-9-2H		
635	342	6	1.59E-09	0.89135	1E8413A-800-CC	* AP040X2-R00-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP
636					RA-8-10H	* RA-9-2H		
637	340	6	1.59E-09	0.89169	1E8233A-BCC-AS	* AP039X2-R00-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP
638					RA-8-10H	* RA-9-2H		
639	345	6	1.59E-09	0.89202	1E8433C-800-CC	* AP039X2-R00-LFO	* DGG-GEN-LF-FTR	* 1E-LOSP
640					RA-8-10H	* RA-9-2H		
641	341	6	1.59E-09	0.89235	AP039X2-R00-LFO	* DGG01CA-FMS-CC	* DG2B-GEN-LF-FTR	* 1E-LOSP
642					RA-8-10H	* RA-9-2H		
643	337	6	1.59E-09	0.89269	1E4327NX-R00-LFO	* 1E8413A-800-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP
644					RA-8-10H	* RA-9-2H		
645	338	6	1.59E-09	0.89302	AP040X2-R00-LFO	* DGG-GEN-LF-FTR	* HCSC001C-FMS-CS	* 1E-LOSP
646					RA-8-10H	* RA-9-2H		
647	336	6	1.59E-09	0.89335	1E4327NY-R00-LFO	* D0V-M00-COM-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP
648					RA-8-10H	* RA-9-2H		
649	333	6	1.59E-09	0.89368	1E4327NY-R00-LFO	* DAV-M00-COM-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
650					RA-8-10H	* RA-9-2H		
651	332	6	1.59E-09	0.89402	AP040X2-R00-LFO	* DGG-GEN-LF-FTR	* DGHV01CC-FMS-CC	* 1E-LOSP
652					RA-8-10H	* RA-9-2H		
653	331	6	1.59E-09	0.89435	1E4327NY-R00-LFO	* 1E8423B-800-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
654					RA-8-10H	* RA-9-2H		
655	330	6	1.59E-09	0.89468	1E4327NY-R00-LFO	* 1E8413A-800-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP
656					RA-8-10H	* RA-9-2H		
657	335	6	1.59E-09	0.89502	1E4327NY-R00-LFO	* DGG-GEN-LF-FTR	* DG2V03CB-FMS-CC	* 1E-LOSP
658					RA-8-10H	* RA-9-2H		
659	329	6	1.59E-09	0.89535	1E4327NX-R00-LFO	* C20G01P-FMS-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
660					RA-8-10H	* RA-9-2H		
661	328	6	1.59E-09	0.89568	1E8432C-BCC-CC	* AP040X2-R00-LFO	* DGG-GEN-LF-FTR	* 1E-LOSP
662					RA-8-10H	* RA-9-2H		
663	327	6	1.59E-09	0.89601	1E4327NY-R00-LFO	* 1E8412A-BCC-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP
664					RA-8-10H	* RA-9-2H		
665	334	6	1.59E-09	0.89635	1E4327NY-R00-LFO	* 1E8233A-BCC-AS	* DG2A-GEN-LF-FTR	* 1E-LOSP
666					RA-8-10H	* RA-9-2H		
667	326	6	1.59E-09	0.89668	1E4327NY-R00-LFO	* 1E8234B-BCC-CC	* DGG-GEN-LF-FTR	* 1E-LOSP
668					RA-8-10H	* RA-9-2H		

669	325	6	1.59E-09	0.89701	AP039K2-R00-LFO	DDV-M00-CDM-CC	DG2B-GEN-LF-FTR	IE-LOSP	*
670					RA-B-10H	RA-9-2H			*
671	324	6	1.59E-09	0.89735	AP040K2-R00-LFO	DG0V01CA-FMS-CC	DG2B-GEN-LF-FTR	IE-LOSP	*
672					RA-B-10H	RA-9-2H			*
673	323	6	1.59E-09	0.89768	1E4327N1-R00-LFO	1E8412A-BCC-CC	DG2A-GEN-LF-FTR	IE-LOSP	*
674					RA-B-10H	RA-9-2H			*
675	322	6	1.59E-09	0.89801	AP040K2-R00-LFO	C20G01P-FMS-CC	DG2B-GEN-LF-FTR	IE-LOSP	*
676					RA-B-10H	RA-9-2H			*
677	319	6	1.59E-09	0.89834	AP039K2-R00-LFO	DG0-GEN-LF-FTR	F0HW01CC-FMS-CC	IE-LOSP	*
678					RA-B-10H	RA-9-2H			*
679	321	6	1.59E-09	0.89868	AP040K2-R00-LFO	DDV-M00-CDM-CC	DG2B-GEN-LF-FTR	IE-LOSP	*
680					RA-B-10H	RA-9-2H			*
681	318	6	1.59E-09	0.89901	1E8412A-BCC-CC	AP040K2-R00-LFO	DG2B-GEN-LF-FTR	IE-LOSP	*
682					RA-B-10H	RA-9-2H			*
683	346	6	1.59E-09	0.89934	1E4327N1-R00-LFO	C20G01P-FMS-CC	CG0-GEN-LF-FTR	IE-LOSP	*
684					RA-B-10H	RA-9-2H			*
685	320	6	1.59E-09	0.89968	AP039K2-R00-LFO	DG0-GEN-LF-FTR	HCSC001C-FMS-CS	IE-LOSP	*
686					RA-B-10H	RA-9-2H			*
687	317	6	1.59E-09	0.90001	1E8413A-B00-CC	AP039K2-R00-LFO	DG2B-GEN-LF-FTR	IE-LOSP	*
688					RA-B-10H	RA-9-2H			*
689	316	6	1.59E-09	0.90034	1E4327N1-R00-LFO	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTR	IE-LOSP	*
690					RA-B-10H	RA-9-2H			*
691	319	6	1.59E-09	0.90067	1E8412A-BCC-CC	AP039K2-R00-LFO	DG2B-GEN-LF-FTR	IE-LOSP	*
692					RA-B-10H	RA-9-2H			*
693	311	6	1.59E-09	0.90101	AP039K2-R00-LFO	C00G01P-FMS-CC	DG2B-GEN-LF-FTR	IE-LOSP	*
694					RA-B-10H	RA-9-2H			*
695	314	6	1.59E-09	0.90134	1E4327N1-R00-LFO	1E8234B-BCC-CC	DG0-GEN-LF-FTR	IE-LOSP	*
696					RA-B-10H	RA-9-2H			*
697	312	6	1.59E-09	0.90167	1E4327N1-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
698					RA-B-10H	RA-9-2H			*
699	351	6	1.59E-09	0.90200	1E8233A-BCC-AS	AP040K2-R00-LFO	DG2B-GEN-LF-FTR	IE-LOSP	*
700					RA-B-10H	RA-9-2H			*
701	310	6	1.59E-09	0.90234	AP039K2-R00-LFO	C5CC002-FMS-CC	DG0-GEN-LF-FTR	IE-LOSP	*
702					RA-B-10H	RA-9-2H			*
703	313	6	1.59E-09	0.90267	1E8433C-B00-CC	AP040K2-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	*
704					RA-B-10H	RA-9-2H			*
705	307	6	1.59E-09	0.90300	1E4327N1-R00-LFO	1E8425B-BCC-CC	DG0-GEN-LF-FTR	IE-LOSP	*
706					RA-B-10H	RA-9-2H			*
707	308	6	1.59E-09	0.90334	1E4327N1-R00-LFO	1E8425B-BCC-CC	DG0-GEN-LF-FTR	IE-LOSP	*
708					RA-B-10H	RA-9-2H			*
709	315	6	1.59E-09	0.90367	1E8432C-BCC-CC	AP039K2-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	*
710					RA-B-10H	RA-9-2H			*
711	309	6	1.59E-09	0.90400	AP040 T-R00-LFO	C5CC002-FMS-CC	DG0-GEN-LF-FTR	IE-LOSP	*
712					RA-B-10H	RA-9-2H			*
713	357	6	1.58E-09	0.90433	AP 0K2-R00-LFO	DG2B-GEN-LF-FTR	LCSC002A-P-UUM		*
714					RA-B-10H	RA-9-10H			*
715	359	6	1.58E-09	0.90467	1E4327N1-R00-LFO	DG2A-GEN-LF-FTR	LCSC002A-P-UUM		*
716					RA-B-10H	RA-9-10H			*
717	358	6	1.58E-09	0.90500	1E4327N1-R00-LFO	DG2A-GEN-LF-FTR	LCSC002A-P-UUM		*
718					RA-B-10H	RA-9-10H			*

SEQUENCE T70

TOP EVENT CP0582-T-SE05B CONTAINS 70 EVENTS IN 127 CUT SETS

THE FREQUENCY OF TOP EVENT CP0582-T-SE05B IS 1.13E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CP0582-T-SE05B

N	300
MEAN	5.74E-08
STD DEV	8.30E-07
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	3.52E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE 170  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
COMT-LEAK	127	7.50E-01 ( 8.0)	1.13E-08 ( 1.5)	0.00E+00	3.52E-08
SUR-001-L	127	1.90E-01 ( 10.0)	1.13E-08 ( 1.5)	0.00E+00	3.52E-08
RCICRMCOOL-FLAG	107	1.00E+00 ( 4.0)	1.12E-08 ( 3.0)	0.00E+00	1.61E-08
RA-1-3-27H	73	2.60E-03 ( 32.5)	6.06E-09 ( 4.0)	0.00E+00	1.45E-08
HACTK3-R00-LFO	47	2.00E-02 ( 15.0)	4.90E-09 ( 5.0)	0.00E+00	1.26E-08
HACTK9-R00-LFO	47	2.00E-02 ( 15.0)	4.61E-09 ( 6.0)	0.00E+00	2.11E-08
RA-1-1-27H	46	2.10E-03 ( 43.5)	4.38E-09 ( 7.0)	0.00E+00	7.41E-09
FLOW-RWR-63	26	1.00E+00 ( 4.0)	2.52E-09 ( 8.0)	0.00E+00	9.20E-09
LAK9389C-R00-LFO	22	2.00E-02 ( 15.0)	2.22E-09 ( 9.0)	0.00E+00	9.20E-09
LAK1888B-R00-LFO	17	2.00E-02 ( 15.0)	1.85E-09 ( 10.5)	0.00E+00	9.20E-09
LAK988CB-R00-LFO	17	2.00E-02 ( 15.0)	1.85E-09 ( 10.5)	0.00E+00	9.20E-09
NOFLOW-CSS-87A	5	1.00E+00 ( 4.0)	1.26E-09 ( 13.0)	0.00E+00	3.60E-09
NOFLOW-SPC-85K	5	1.00E+00 ( 4.0)	1.26E-09 ( 13.0)	0.00E+00	3.60E-09
LAK1489C-R00-LFO	5	2.00E-02 ( 15.0)	1.26E-09 ( 13.0)	0.00E+00	1.58E-09
RA-2-11-27H	6	1.60E-03 ( 45.0)	6.98E-10 ( 15.0)	0.00E+00	7.11E-10
RHR018X-WTX-LFB	2	6.20E-03 ( 19.0)	4.59E-10 ( 16.0)	0.00E+00	4.00E-10
HACTK3CP9-LFO0	3	2.90E-03 ( 29.0)	2.81E-10 ( 17.0)	0.00E+00	6.08E-10
TEBZ35A-B00-LF	6	7.20E-05 ( 64.0)	2.51E-10 ( 18.0)	0.00E+00	6.12E-10
HCS001C-P-UJM	3	3.00E-03 ( 23.5)	2.48E-10 ( 19.0)	0.00E+00	4.90E-10
EE-CST-LVL	3	1.00E+00 ( 4.0)	2.42E-10 ( 21.0)	0.00E+00	4.90E-10
HCSF015C-VCC-CS	3	2.50E-03 ( 30.0)	2.42E-10 ( 21.0)	0.00E+00	2.98E-10
HCSF004C-VCC-CS	3	2.50E-03 ( 30.0)	2.42E-10 ( 21.0)	0.00E+00	3.15E-10
HACTK9CP7-LFO0	2	2.90E-03 ( 29.0)	2.40E-10 ( 23.0)	0.00E+00	4.68E-10
RHR0038-P-UJM	2	3.00E-03 ( 23.5)	2.22E-10 ( 26.5)	0.00E+00	4.68E-10
RHR0028B-P-NDUJM	2	3.00E-03 ( 23.5)	2.22E-10 ( 26.5)	0.00E+00	4.68E-10
CDG001P-P-UJM	2	3.00E-03 ( 23.5)	2.22E-10 ( 26.5)	0.00E+00	4.68E-10
CDG001P-P-UJM	2	3.00E-03 ( 23.5)	2.22E-10 ( 26.5)	0.00E+00	3.15E-10
RHR0028B-P-UJM	2	1.00E+00 ( 4.0)	2.22E-10 ( 26.5)	0.00E+00	2.01E-10
SCSF068B-DIENER	2	2.90E-03 ( 29.0)	2.15E-10 ( 30.0)	0.00E+00	2.49E-10
LAK938CP3-LFCC	2	2.50E-03 ( 38.0)	2.07E-10 ( 31.0)	0.00E+00	6.30E-10
HCS001C-PMS-CS	3	2.50E-03 ( 38.0)	2.03E-10 ( 32.0)	0.00E+00	2.25E-10
LAK388CB-R00-LFO	2	3.40E-03 ( 20.0)	1.85E-10 ( 36.0)	0.00E+00	2.25E-10
RA-2-3-27H	2	2.60E-03 ( 32.5)	1.85E-10 ( 36.0)	0.00E+00	2.25E-10
RHR488B-V00-CC	2	2.50E-03 ( 38.0)	1.85E-10 ( 36.0)	0.00E+00	2.25E-10
CSCFD68B-VCC-CC	2	2.50E-03 ( 38.0)	1.85E-10 ( 36.0)	0.00E+00	2.25E-10
CDG001P-PMS-CC	2	2.50E-03 ( 38.0)	1.85E-10 ( 36.0)	0.00E+00	2.25E-10
SEVY03CB-FMS-CC	2	2.50E-03 ( 38.0)	1.85E-10 ( 36.0)	0.00E+00	2.25E-10
CDG001P-PMS-CC	2	2.50E-03 ( 38.0)	1.85E-10 ( 36.0)	0.00E+00	2.25E-10
RHR018B-300-CC	2	2.90E-03 ( 29.0)	1.74E-10 ( 40.5)	0.00E+00	1.52E-10
LAK98CP3-LFO0	2	2.90E-03 ( 29.0)	1.74E-10 ( 40.5)	0.00E+00	1.52E-10
LAK188CP1-LFO0	2	2.90E-03 ( 29.0)	1.74E-10 ( 40.5)	0.00E+00	3.22E-10
HC01K14-R00-LFO	3	1.20E-03 ( 46.5)	1.16E-10 ( 43.0)	0.00E+00	3.33E-10
HCS001C-PMS-LF	4	1.20E-03 ( 46.5)	8.91E-11 ( 44.0)	0.00E+00	1.84E-10
CSCD300B-PLG-LF	4	1.20E-03 ( 46.5)	8.91E-11 ( 44.0)	0.00E+00	9.93E-11
RC1C001X-TDP-LF	4	3.00E-02 ( 11.0)	8.89E-11 ( 45.0)	0.00E+00	9.93E-11

RHRC02BB-PMS-LF	2	1.10E-03 ( 49.5)	8.15E-11 ( 47.9)	0.00E+00	1.30E-10
C00G01P-PMS-LF	2	1.10E-03 ( 49.5)	8.15E-11 ( 47.0)	0.00E+00	1.30E-10
C2D0G01P-PMS-LF	2	1.10E-03 ( 49.5)	8.15E-11 ( 47.0)	0.00E+00	1.30E-10
SEVY03AX-ACK-LFI	2	8.40E-04 ( 52.0)	6.22E-11 ( 49.0)	0.00E+00	6.78E-11
FLOW-RHR-A3	2	1.00E+00 ( 4.0)	4.45E-11 ( 50.5)		
LAK93ARC-ROO-LFO	2	2.00E-02 ( 15.0)	4.45E-11 ( 50.5)	0.00E+00	4.97E-11
C00G01F-PLG-LF	10	5.80E-04 ( 59.5)	4.34E-11 ( 52.0)	0.00E+00	7.96E-11
C2D0G01F-PLG-LF	4	5.80E-04 ( 59.5)	4.31E-11 ( 53.0)	0.00E+00	7.91E-11
HACTCPF2-FUS-LF	3	5.40E-04 ( 62.0)	4.01E-11 ( 54.5)	0.00E+00	3.39E-11
HACTCPF1-FUS-LF	3	5.40E-04 ( 62.0)	4.01E-11 ( 54.5)	0.00E+00	3.39E-11
SEVY03CB-FMS-LF	2	5.40E-04 ( 62.0)	4.00E-11 ( 56.0)	0.00E+00	6.98E-11
HACTK13CP5-LFCO	2	6.60E-04 ( 56.5)	3.95E-11 ( 58.5)	0.00E+00	1.29E-10
LAK3BRXCP1-LFCO	2	6.60E-04 ( 56.5)	3.95E-11 ( 58.5)	0.00E+00	1.29E-10
LAK2BBXCP4-LFDD	2	6.60E-04 ( 56.5)	3.95E-11 ( 58.5)	0.00E+00	1.29E-10
AP040X4CP1-LFCO	2	6.60E-04 ( 56.5)	3.95E-11 ( 58.5)	0.00E+00	1.29E-10
OPFALL-VENT-6H	24	2.10E-03 ( 43.5)	9.10E-12 ( 61.0)	0.00E+00	3.11E-11
T5MFS50PERCENT	6	5.00E-01 ( 9.0)	2.83E-13 ( 62.0)		
EE-CSCD300B-PLG	2	7.20E-04 ( 53.5)	1.12E-13 ( 63.5)	0.00E+00	1.16E-13
EE-C2D0G01F-PLG	2	7.20E-04 ( 53.5)	1.12E-13 ( 63.5)	0.00E+00	1.16E-13

SEQUENCE 170  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OLLUR	PROB	(RANK)	RISK INCREASE	(RANK)	LOWFR 5%	UPPER 5%
1EB235A-R00-LF	6	7.20E-05	( 64.0)	3.49E-06	( 1.0)	0.00E+00	1.31E-05
RA-1-3-27H	73	2.60E-03	( 32.5)	2.33E-06	( 2.0)	0.00E+00	1.30E-05
RA-1-1-27H	46	2.10E-03	( 43.5)	2.08E-06	( 3.0)	0.00E+00	1.40E-05
RA-2-11-27H	6	1.60E-03	( 45.0)	4.35E-07	( 4.0)	0.00E+00	2.49E-05
HACTK3-R00-LFO	47	2.00E-02	( 15.0)	2.40E-07	( 5.0)	0.00E+00	1.08E-06
HACTK9-R00-LFO	47	2.00E-02	( 15.0)	2.26E-07	( 6.0)	0.00E+00	1.11E-06
LAK938RC-R00-LFO	22	2.00E-02	( 15.0)	1.09E-07	( 7.0)	0.00E+00	3.59E-07
HCS001C-PMS-LF	4	1.10E-03	( 49.5)	1.05E-07	( 8.0)	0.00E+00	3.96E-07
HC01K14-R00-LFO	3	1.20E-03	( 46.5)	9.68E-08	( 9.0)	0.00E+00	4.04E-07
HCSF015C-VCC-CS	3	2.50E-03	( 39.0)	9.67E-08	( 10.5)	0.00E+00	4.02E-07
HCSF004C-VCC-CS	3	2.50E-03	( 38.0)	9.67E-08	( 10.5)	0.00E+00	4.02E-07
HACTK3CP9-LFO	3	2.90E-03	( 29.0)	9.66E-08	( 12.0)	0.00E+00	4.04E-07
LAK98RCB-R00-LFO	17	2.00E-02	( 15.0)	9.08E-08	( 13.5)	0.00E+00	4.86E-07
LAK108RB-R00-LFO	17	2.00E-02	( 15.0)	9.08E-08	( 17.5)	0.00E+00	4.86E-07
HCS001C-PMS-CS	3	2.50E-03	( 38.0)	8.24E-08	( 15.0)	0.00E+00	3.12E-07
HACTK9CP7-LFO	3	2.90E-03	( 29.0)	8.24E-08	( 16.0)	0.00E+00	3.13E-07
HCS001C-P-UJM	3	3.00E-03	( 23.5)	8.24E-08	( 17.0)	0.00E+00	3.13E-07
C00G01F-PLG-LF	10	5.80E-04	( 59.5)	7.47E-08	( 18.0)	0.00E+00	1.55E-07
C20G01F-PLG-LF	4	5.80E-04	( 59.5)	7.42E-08	( 19.0)	0.00E+00	1.54E-07
CSCD300B-PLG-LF	4	1.20E-03	( 46.5)	7.42E-08	( 20.0)	0.00E+00	1.54E-07
HACTCF2-FUS-LF	3	5.40E-04	( 62.0)	7.41E-08	( 21.5)	0.00E+00	1.54E-07
HACTCF1-FUS-LF	3	5.40E-04	( 62.0)	7.41E-08	( 21.5)	0.00E+00	1.54E-07
SEVY03CB-FMS-LF	2	5.40E-04	( 62.0)	7.41E-08	( 23.0)	0.00E+00	1.54E-07
SEVY03AX-ACK-LFI	2	8.40E-04	( 52.0)	7.40E-08	( 24.0)	0.00E+00	1.54E-07
C00G01P-PMS-LF	2	1.10E-03	( 49.5)	7.40E-08	( 26.0)	0.00E+00	1.54E-07
RHRC028B-PMS-LF	2	1.10E-03	( 49.5)	7.40E-08	( 26.0)	0.00E+00	1.54E-07
C20G01P-PMS-LF	2	1.10E-03	( 49.5)	7.40E-08	( 26.0)	0.00E+00	1.54E-07
SEVY03CB-FMS-CC	2	2.50E-03	( 38.0)	7.39E-08	( 30.5)	0.00E+00	1.53E-07
RHRF488B-V00-CC	2	2.50E-03	( 38.0)	7.39E-08	( 30.5)	0.00E+00	1.53E-07
CSCF068B-VCC-CC	2	2.50E-03	( 38.0)	7.39E-08	( 30.5)	0.00E+00	1.53E-07
C00G01P-PMS-CC	2	2.50E-03	( 38.0)	7.39E-08	( 30.5)	0.00E+00	1.53E-07
C20G01P-PMS-CC	2	2.50E-03	( 38.0)	7.39E-08	( 30.5)	0.00E+00	1.53E-07
RHRB018B-R00-CC	2	2.50E-03	( 38.0)	7.39E-08	( 30.5)	0.00E+00	1.53E-07
LAK938CP3-LFCC	2	2.90E-03	( 29.0)	7.39E-08	( 34.0)	0.00E+00	1.54E-07
RHRC028B-P-UJM	2	3.00E-03	( 23.5)	7.39E-08	( 37.0)	0.00E+00	1.54E-07
RHRC003B-P-UJM	2	3.00E-03	( 23.5)	7.39E-08	( 37.0)	0.00E+00	1.54E-07
RHRC028B-P-UJM	2	3.00E-03	( 23.5)	7.39E-08	( 37.0)	0.00E+00	1.54E-07
C00G01P-P-UJM	2	3.00E-03	( 23.5)	7.39E-08	( 37.0)	0.00E+00	1.54E-07
C20G01P-P-UJM	2	3.00E-03	( 23.5)	7.39E-08	( 37.0)	0.00E+00	1.54E-07
RHRH018X-RTX-LFB	2	6.20E-03	( 19.0)	7.36E-08	( 40.0)	0.00E+00	1.54E-07
RA-2-3-27H	2	2.60E-03	( 32.5)	7.11E-08	( 41.0)	0.00E+00	1.73E-07
LAK148RC-R00-LFO	5	2.00E-02	( 15.0)	6.18E-08	( 42.0)	0.00E+00	2.18E-07
HACTK13CP5-LFCD	2	6.60E-04	( 56.5)	5.98E-08	( 44.5)	0.00E+00	2.37E-07
LAK38RCXCP1-LFCD	2	6.60E-04	( 56.5)	5.98E-08	( 44.5)	0.00E+00	2.37E-07
LAK288XC94-LFCD	2	6.60E-04	( 56.5)	5.98E-08	( 44.5)	0.00E+00	2.37E-07

AP040X4CP1-LFCD	2	6.60E-04	( 56.5)	5.98E-08	( 44.5)	0.00E+00	2.37E-07
LAK2BCP3-LFOO	2	2.90E-03	( 29.0)	5.97E-08	( 47.5)	0.00E+00	2.36E-07
LAK188CP1-LFOO	2	2.90E-03	( 29.0)	5.97E-08	( 47.5)	0.00E+00	2.36E-07
LAK3BRCB-RCD-LFO	2	3.40E-03	( 20.0)	5.96E-08	( 49.0)	0.00E+00	2.36E-07
SUR-001-L	127	1.90E-01	( 10.0)	4.83E-08	( 50.0)	0.00E+00	2.30E-07
OPFAIL-VENT-6H	24	2.10E-03	( 43.5)	4.32E-09	( 51.0)	0.00E+00	1.19E-06
CONT-LEAK	127	7.50E-01	( 8.0)	3.77E-09	( 52.0)	0.00E+00	0.00E+00
RC1C001X-TDP-1F	4	3.00E-02	( 11.0)	2.88E-09	( 53.0)	0.00E+00	8.28E-09
LAK3ARC-ROO-LFO	2	2.00E-02	( 15.0)	2.18E-09	( 54.0)	0.00E+00	2.20E-09
EE-CSD300B-PLG	2	7.20E-04	( 53.5)	1.55E-10	( 55.5)	0.00E+00	2.35E-10
EE-C2D601F-PLG	2	7.20E-04	( 53.5)	1.55E-10	( 55.5)	0.00E+00	2.35E-10
TSMFSSC-IRCENT	6	5.00E-01	( 9.0)	2.83E-13	( 57.0)	0.00E+00	0.00E+00
SCSF0688-DENER	2	1.00E+00	( 4.0)	0.00E+00	( 61.0)	0.00E+00	0.00E+00
RC1CRMCOOL-FLAG	107	1.00E+00	( 4.0)	0.00E+00	( 61.0)	0.00E+00	0.00E+00
NOFLOW-57C-BSX	5	1.00E+00	( 4.0)	0.00E+00	( 61.0)	0.00E+00	0.00E+00
NOFLOW-CSS-B7A	5	1.00E+00	( 4.0)	0.00E+00	( 61.0)	0.00E+00	0.00E+00
FLOW-RWR-B3	26	1.00E+00	( 4.0)	0.00E+00	( 61.0)	0.00E+00	0.00E+00
FLOW-RWR-A3	2	1.00E+00	( 4.0)	0.00E+00	( 61.0)	0.00E+00	0.00E+00
EE-CST-LVL	3	1.00E+00	( 4.0)	0.00E+00	( 61.0)	0.00E+00	0.00E+00

SEQUENCE T70  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y.05/TE.05*	Y.95/TE.95*
SUR-001-L	127	1.90E-01	( 10.0)	73.3	( 1.0)	NA	1.57
LAK14BRC-RCD-LFO	5	2.00E-02	( 15.0)	10.8	( 5.0)	NA	1.79
HACTK9-ROO-LFO	47	2.00E-02	( 15.0)	10.8	( 5.0)	NA	1.79
LAK93ARC-ROO-LFO	2	2.00E-02	( 15.0)	10.8	( 5.0)	NA	1.79
HACTK3-ROO-LFO	47	2.00E-02	( 15.0)	10.8	( 5.0)	NA	1.79
LAK93BRC-ROO-LFO	22	2.00E-02	( 15.0)	10.8	( 5.0)	NA	1.79
LAK18BRB-ROO-LFO	17	2.00E-02	( 15.0)	10.8	( 5.0)	NA	1.79
LAK98RCB-ROO-LFO	17	2.00E-02	( 15.0)	10.8	( 5.0)	NA	1.79
HC01K14-ROO-LFO	3	1.20E-03	( 46.5)	6.1	( 9.0)	NA	1.01
CONT-LEAK	127	7.50E-01	( 8.0)	5.8	( 10.0)	NA	0.75
LAK36RCB-RCD-LFO	2	3.40E-03	( 20.0)	5.6	( 11.0)	NA	1.04
EE-C2DGG01F-PLG	2	7.20E-04	( 53.5)	2.6	( 12.5)	NA	1.00
EE-CSCD300B-PLG	2	7.20E-04	( 53.5)	2.6	( 12.5)	NA	1.00
SEVY03CB-FMS-LF	2	5.40E-04	( 62.0)	2.4	( 14.0)	NA	1.00
RHRH01BX-RTX-LFB	2	6.20E-03	( 19.0)	2.1	( 15.0)	NA	1.02
HACTCPF1-FUS-LF	3	5.40E-04	( 62.0)	1.8	( 16.5)	NA	1.00
HACTCPF2-FUS-LF	3	5.40E-04	( 62.0)	1.8	( 16.5)	NA	1.00
HCSC001C-P-UUM	3	3.00E-03	( 23.5)	1.8	( 19.5)	NA	1.04
CDDG01P-P-UUM	2	3.00E-03	( 23.5)	1.8	( 19.5)	NA	1.04
RHRC02BB-P-NDUUM	2	3.00E-03	( 23.5)	1.8	( 19.5)	NA	1.04
C2DGG01P-P-UUM	2	3.00E-03	( 23.5)	1.8	( 19.5)	NA	1.04
CDDG01F-PLG-LF	10	5.80E-04	( 59.5)	1.6	( 22.5)	NA	0.99
C2DGG01F-PLG-LF	4	5.80E-04	( 59.5)	1.6	( 22.5)	NA	0.99
SEVY03AX-ACX-LFI	2	8.40E-04	( 52.0)	1.5	( 24.0)	NA	1.00
HACTK3CP9-LFOO	3	2.90E-03	( 29.0)	1.3	( 27.0)	NA	0.99
LAK98CP3-LFOO	2	2.90E-03	( 29.0)	1.3	( 27.0)	NA	0.99
HACTK9CP7-LFOO	3	2.90E-03	( 29.0)	1.3	( 27.0)	NA	0.99
LAK93CP3-LFCC	2	2.90E-03	( 29.0)	1.3	( 27.0)	NA	0.99
LAK18BCP1-LFOO	2	2.90E-03	( 29.0)	1.3	( 27.0)	NA	0.99
CSCD300B-PLG-LF	4	1.20E-03	( 46.5)	1.2	( 30.0)	NA	0.99
RA-2-3-27H	2	2.60E-03	( 32.5)	1.0	( 31.5)	NA	1.40
RA-1-3-27H	73	2.60E-03	( 32.5)	1.0	( 31.5)	NA	1.40
RA-1-1-27H	46	2.10E-03	( 43.5)	0.7	( 33.5)	NA	1.34
OPFAIL-VENT-6H	24	2.10E-03	( 43.5)	0.7	( 33.5)	NA	1.34
HCSF015C-VCC-CS	3	2.50E-03	( 38.0)	0.0	( 45.5)		
SEVY03CB-FMS-CC	2	2.50E-03	( 38.0)	0.0	( 45.5)		
HCSF004C-VCC-CS	3	2.50E-03	( 38.0)	0.0	( 45.5)		
HCSC001C-PMS-LF	4	1.10E-03	( 49.5)	0.0	( 45.5)		
RHRF48BB-VCO-CC	2	2.50E-03	( 38.0)	0.0	( 45.5)		
RHRC02BB-PMS-LF	2	1.10E-03	( 49.5)	0.0	( 45.5)		
HCSC001C-PMS-CS	3	2.50E-03	( 38.0)	0.0	( 45.5)		
RHRC02BB-P-UUM	2	3.00E-03	( 23.5)	0.0	( 45.5)		
RHRH01BB-BDO-CC	2	2.50E-03	( 38.0)	0.0	( 45.5)		
CSCF068B-VCC-CC	2	2.50E-03	( 38.0)	0.0	( 45.5)		
RCIC001X-TDP-LF	4	3.00E-02	( 11.0)	6.0	( 45.5)		



RA-2-11-27H	6	1.60E-03	( 45.0)	0.0	( 45.5)
C0DGD1P-PMS-LF	2	1.10E-03	( 49.5)	0.0	( 45.5)
HACTK13CP5-LFCO	2	6.60E-04	( 56.5)	0.0	( 45.5)
C2DGD1P-PMS-LF	2	1.10E-03	( 49.5)	0.0	( 45.5)
C0DGD1P-PMS-CC	2	2.50E-03	( 38.0)	0.0	( 45.5)
LAK3BRCKCP1-LFCO	2	6.60E-04	( 56.5)	0.0	( 45.5)
RHRC003B-P-UUM	2	3.00E-03	( 23.5)	0.0	( 45.5)
C2DGD1P-PMS-CC	2	2.50E-03	( 38.0)	0.0	( 45.5)
LAK2BBXCP4-LFCO	2	6.60E-04	( 56.5)	0.0	( 45.5)
AP040X4CP1-LFCO	2	6.60E-04	( 56.5)	0.0	( 45.5)
1EB23SA-BCO-LF	6	7.20E-05	( 64.0)	0.0	( 45.5)
SCSF06BB-DENER	2	1.00E+00	( 4.0)		
RC1CRMCOOL-FLAG	107	1.00E+00	( 4.0)		
NOFLOW-SPC-B5X	5	1.00E+00	( 4.0)		
NOFLOW-CSS-B7A	5	1.00E+00	( 4.0)		
FLOW-RHR-B3	26	1.00E+00	( 4.0)		
FLOW-RHR-A3	2	1.00E+00	( 4.0)		
TSMF550PERCENT	6	5.00E-01	( 9.0)		
EE-CST-LVL	3	1.00E+00	( 4.0)		

SEQUENCE 170

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES, CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS FOR TOP EVENT CP0582-T-SEQ58 WITH TOP EVENT FREQUENCY 1.13E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBER OR THE FILE TEMACSETS.DMF)

2	1	8	7.41E-10	0.06545	CONT-LEAK	* FLOW-RWR-B3	* HACTK3-ROO-LFO	* IE-T101
3					LAK938C-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L
4	2	8	7.41E-10	0.13090	CONT-LEAK	* FLOW-RWR-B3	* HACTK9-ROO-LFO	* IE-T101
5					LAK938C-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L
6	3	9	7.41E-10	0.19635	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK148RC-ROO-LFO
7					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* RCICRMCOOL-FLAG
8					SUR-001-L			
9	6	7	5.98E-10	0.24921	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK988C-ROO-LFO
10					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
11	5	7	5.98E-10	0.30207	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAE188RB-ROO-LFO
12					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
13	4	7	5.98E-10	0.35493	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK188RB-ROO-LFO
14					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
15	7	7	5.98E-10	0.40780	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK988C-ROO-LFO
16					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
17	8	9	4.54E-10	0.44807	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK148RC-ROO-LFO
18					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-2-11-27H	* RCICRMCOOL-FLAG
19					SUR-001-L			
20	10	7	2.30E-10	0.46836	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H
21					RCICRMCOOL-FLAG	* RHR018X-RTX-LFB	* SUR-001-L	
22	9	7	2.30E-10	0.48865	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
23					RCICRMCOOL-FLAG	* RHR018X-RTX-LFB	* SUR-001-L	
24	23	7	1.11E-10	0.49847	C2DG01P-P-UUM	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101
25					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
26	22	7	1.11E-10	0.50828	C2DG01P-P-UUM	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101
27					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
28	20	7	1.11E-10	0.51810	CDDG01P-P-UUM	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102
29					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
30	17	7	1.11E-10	0.52792	CDDG01P-P-UUM	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102
31					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	
32	14	7	1.11E-10	0.53774	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
33					RCICRMCOOL-FLAG	* RHR003B-P-UUM	* SUR-001-L	
34	15	8	1.11E-10	0.54755	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H
35					RCICRMCOOL-FLAG	* RHR028B-P-UUM	* SUR-001-L	
36	13	7	1.11E-10	0.55737	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* SUR-001-L
37					RCICRMCOOL-FLAG	* RHR003B-P-UUM	* SUR-001-L	
38	11	7	1.11E-10	0.56719	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H
39					RCICRMCOOL-FLAG	* RHR028B-P-UUM	* SUR-001-L	
40	16	8	1.11E-10	0.57701	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
41					RCICRMCOOL-FLAG	* RHR028B-P-UUM	* SUR-001-L	
42	12	7	1.11E-10	0.58682	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
43					RCICRMCOOL-FLAG	* RHR028B-P-UUM	* SUR-001-L	
44	21	8	1.07E-10	0.59631	CONT-LEAK	* FLOW-RWR-B3	* HACTK3-ROO-LFO	* IE-T101
45					LAK938C-P3-LFCC	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L

46	19	8	1.07E-10	0.60580	CONT-LEAK	RA-1-3-27H	FLOW-RHR-B3	HACTK3CP9-LFO	1E-1101
47	18	8	1.07E-10	0.61529	LAK938RC-R00-LFO	RA-1-3-27H	RA-1-3-27H	RCICRMCOOL-FLAG	SUR-001-L
48	18	8	1.07E-10	0.61529	CONT-LEAK	FLOW-RHR-B3	FLOW-RHR-B3	HACTK9-R00-LFO	1E-1101
49	25	7	1.02E-10	0.62428	LAK938CP3-LFCC	RA-1-3-27H	RA-1-3-27H	RCICRMCOOL-FLAG	SUR-001-L
50	25	7	1.02E-10	0.62428	CONT-LEAK	HACTK9-R00-LFO	HACTK9-R00-LFO	1E-1101	LAK38RCB-R00-LFO
51	24	7	1.02E-10	0.63327	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	LAK38RCB-R00-LFO
52	24	7	1.02E-10	0.63327	CONT-LEAK	HACTK3-R00-LFO	HACTK3-R00-LFO	1E-1101	LAK38RCB-R00-LFO
53	31	7	9.26E-11	0.64145	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	LAK38RCB-R00-LFO
54	31	7	9.26E-11	0.64145	CONT-LEAK	CSCF068B-VCC-CC	HACTK9-R00-LFO	1E-1101	LAK38RCB-R00-LFO
55	29	7	9.26E-11	0.64963	RA-1-3-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	LAK38RCB-R00-LFO
56	29	7	9.26E-11	0.64963	CONT-LEAK	CONT-LEAK	HACTK9-R00-LFO	1E-1101	LAK38RCB-R00-LFO
57	27	7	9.26E-11	0.65781	RA-1-3-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	LAK38RCB-R00-LFO
58	27	7	9.26E-11	0.65781	CONT-LEAK	CONT-LEAK	HACTK9-R00-LFO	1E-1101	LAK38RCB-R00-LFO
59	26	9	9.26E-11	0.66599	RA-1-3-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	LAK38RCB-R00-LFO
60	26	9	9.26E-11	0.66599	CONT-LEAK	EE-CST-LVC	FLOW-RHR-B3	HCSF015C-VCC-CS	RCICRMCOOL-FLAG
61	1E-1101					LAK938RC-R00-LFO	RA-2-3-27H	RCICRMCOOL-FLAG	
62	38	7	9.26E-11	0.67417	SUR-001-L	CONT-LEAK	HACTK3-R00-LFO	1E-1102	
63	38	7	9.26E-11	0.67417	CONT-LEAK	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
64	39	7	9.26E-11	0.68235	RA-1-3-27H	CSCF068B-VCC-CC	HACTK3-R00-LFO	1E-1101	
65	39	7	9.26E-11	0.68235	CONT-LEAK	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
66	34	7	9.26E-11	0.69053	RA-1-3-27H	CONT-LEAK	HACTK3-R00-LFO	1E-1101	
67	34	7	9.26E-11	0.69053	CONT-LEAK	CONT-LEAK	HACTK3-R00-LFO	1E-1101	
68	32	8	9.26E-11	0.69872	RA-1-3-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
69	32	8	9.26E-11	0.69872	CONT-LEAK	FLOW-RHR-B3	HCSF004C-VCC-CS	RCICRMCOOL-FLAG	
70	30	7	9.26E-11	0.70690	LAK938RC-R00-LFO	RA-2-3-27H	RA-2-3-27H	RA-1-3-27H	
71	30	7	9.26E-11	0.70690	CONT-LEAK	HACTK9-R00-LFO	HACTK9-R00-LFO	1E-1101	
72	28	8	9.26E-11	0.71508	RCICRMCOOL-FLAG	RHR018B-R00-CC	RHR018B-R00-CC	SUR-001-L	
73	28	8	9.26E-11	0.71508	CONT-LEAK	FLOW-RHR-B3	FLOW-RHR-B3	HACTK9-R00-LFO	
74	37	7	9.26E-11	0.72326	RA-1-3-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	RHR488B-V00-CC	
75	37	7	9.26E-11	0.72326	CONT-LEAK	HACTK3-R00-LFO	HACTK3-R00-LFO	1E-1101	
76	36	7	9.26E-11	0.73144	RCICRMCOOL-FLAG	SEVY03CB-FMS-CC	SEVY03CB-FMS-CC	SUR-001-L	
77	36	7	9.26E-11	0.73144	CONT-LEAK	HACTK9-R00-LFO	HACTK9-R00-LFO	1E-1101	
78	35	7	9.26E-11	0.73962	RCICRMCOOL-FLAG	SEVY03CB-FMS-CC	SEVY03CB-FMS-CC	SUR-001-L	
79	35	7	9.26E-11	0.73962	CONT-LEAK	HACTK3-R00-LFO	HACTK3-R00-LFO	1E-1101	
80	33	8	9.26E-11	0.74780	RCICRMCOOL-FLAG	RHR018B-R00-CC	RHR018B-R00-CC	SUR-001-L	
81	33	8	9.26E-11	0.74780	CONT-LEAK	FLOW-RHR-B3	FLOW-RHR-B3	HACTK3-R00-LFO	
82	47	7	8.68E-11	0.75573	RA-1-3-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	RHR488B-V00-CC	
83	47	7	8.68E-11	0.75573	CONT-LEAK	HCS001C-P-UJM	1E-1101	1E-1101	
84	41	7	8.68E-11	0.76366	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
85	41	7	8.68E-11	0.76366	CONT-LEAK	HCS001C-P-UJM	1E-1101	1E-1101	
86	49	7	8.68E-11	0.77133	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
87	49	7	8.68E-11	0.77133	CONT-LEAK	HACTK9CP7-LFO	HACTK9CP7-LFO	1E-1101	
88	48	7	8.68E-11	0.77899	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
89	48	7	8.68E-11	0.77899	CONT-LEAK	HACTK3CP9-LFO	HACTK3CP9-LFO	1E-1101	
90	44	7	8.68E-11	0.78666	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
91	44	7	8.68E-11	0.78666	CONT-LEAK	HACTK9CP7-LFO	HACTK9CP7-LFO	1E-1101	
92	42	7	8.68E-11	0.79432	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
93	42	7	8.68E-11	0.79432	CONT-LEAK	HACTK3CP9-LFO	HACTK3CP9-LFO	1E-1101	
94	46	7	8.68E-11	0.80199	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
95	46	7	8.68E-11	0.80199	CONT-LEAK	HACTK3-R00-LFO	HACTK3-R00-LFO	1E-1101	
96	45	7	8.68E-11	0.80965	RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	
97	45	7	8.68E-11	0.80965	CONT-LEAK	HACTK9-R00-LFO	HACTK9-R00-LFO	1E-1101	
98					RA-1-1-27H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SUR-001-L	

99	43	7	8.48E-11	0.81732	CONT-LEAK	RA-1-1-27H	HACTK3-ROO-LFO	1E-1101	LAK188CP1-LFO	*	
100	101	7	8.48E-11	0.82498	CONT-LEAK	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*	
101	102	7	8.48E-11	0.83159	CONT-LEAK	RA-1-1-27H	HACTK9-ROO-LFO	1E-1101	LAK98CB-ROO-LFO	*	
102	103	7	8.48E-11	0.83820	CONT-LEAK	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK188PB-ROO-LFO	*	
103	104	7	8.48E-11	0.84480	CONT-LEAK	RA-1-1-27H	HCS001C-PMS-CS	1E-1101	LAK98CB-ROO-LFO	*	
104	105	7	8.48E-11	0.85141	CONT-LEAK	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*	
105	106	7	8.48E-11	0.85802	CONT-LEAK	RA-1-1-27H	HCSF004C-VCC-CS	1E-1101	LAK98CB-ROO-LFO	*	
106	107	7	8.48E-11	0.86463	CONT-LEAK	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*	
107	108	7	8.48E-11	0.87067	CONT-LEAK	RA-1-1-27H	EE-CST-LVL	HCSF015C-VCC-CS	1E-1101	LAK98CB-ROO-LFO	*
108	109	7	8.48E-11	0.87651	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*
109	110	7	8.48E-11	0.88154	CONT-LEAK	RA-1-1-27H	EE-CST-LVL	HCSF015C-VCC-CS	1E-1101	LAK98CB-ROO-LFO	*
110	111	7	8.48E-11	0.88578	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*
111	112	7	8.48E-11	0.89003	CONT-LEAK	RA-1-1-27H	HCSF004C-VCC-CS	1E-1101	LAK98CB-ROO-LFO	*	
112	113	7	8.48E-11	0.89395	CONT-LEAK	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*	
113	114	7	8.48E-11	0.89788	CONT-LEAK	RA-1-1-27H	HCS001C-PMS-CS	1E-1101	LAK98CB-ROO-LFO	*	
114	115	7	8.48E-11	0.90181	CONT-LEAK	RA-1-1-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*	
115	116	7	8.48E-11	0.90541	CONT-LEAK	RA-1-1-27H	FLOW-RHR-B3	HCS001C-P-UMM	1E-1101	LAK98CB-ROO-LFO	*
116	117	7	8.48E-11	0.90901	CONT-LEAK	RA-1-1-27H	RA-2-11-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*
117	118	7	8.48E-11	0.91261	CONT-LEAK	RA-1-1-27H	FLOW-RHR-B3	HACTK9CP7-LFO	1E-1101	LAK98CB-ROO-LFO	*
118	119	7	8.48E-11	0.91621	CONT-LEAK	RA-1-1-27H	RA-2-11-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*
119	120	7	8.48E-11	0.91980	CONT-LEAK	RA-1-1-27H	FLOW-RHR-B3	HCS001C-PMS-CS	1E-1101	LAK98CB-ROO-LFO	*
120	121	7	8.48E-11	0.92340	CONT-LEAK	RA-1-1-27H	RA-2-11-27H	RCICMCOOL-FLAG	SUR-001-L	LAK98CB-ROO-LFO	*
121	122	7	8.48E-11	0.92683	CONT-LEAK	RA-1-1-27H	CONT-LEAK	FLOW-RHR-B3	HACTK3-ROO-LFO	*	
122	123	7	8.48E-11	0.93026	CONT-LEAK	RA-1-1-27H	LAK98CB-ROO-LFO	RA-1-1-27H	RCICMCOOL-FLAG	*	
123	124	7	8.48E-11	0.93368	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	CONT-LEAK	HACTK9-ROO-LFO	*	
124	125	7	8.48E-11	0.93709	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	RCICMCOOL-FLAG	*	
125	126	7	8.48E-11	0.94050	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	*	
126	127	7	8.48E-11	0.94391	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	RCICMCOOL-FLAG	*	
127	128	7	8.48E-11	0.94732	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	*	
128	129	7	8.48E-11	0.95073	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-011-L	*	
129	130	7	8.48E-11	0.95414	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK3-ROO-LFO	*	
130	131	7	8.48E-11	0.95755	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
131	132	7	8.48E-11	0.96096	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HCS001C-PMS-CS	*	
132	133	7	8.48E-11	0.96437	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	RCICMCOOL-FLAG	*	
133	134	7	8.48E-11	0.96778	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
134	135	7	8.48E-11	0.97119	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	*	
135	136	7	8.48E-11	0.97460	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
136	137	7	8.48E-11	0.97801	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	*	
137	138	7	8.48E-11	0.98142	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
138	139	7	8.48E-11	0.98483	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK3-ROO-LFO	*	
139	140	7	8.48E-11	0.98824	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
140	141	7	8.48E-11	0.99165	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	*	
141	142	7	8.48E-11	0.99506	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
142	143	7	8.48E-11	0.99847	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK3-ROO-LFO	*	
143	144	7	8.48E-11	1.00188	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
144	145	7	8.48E-11	1.00529	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	*	
145	146	7	8.48E-11	1.00870	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
146	147	7	8.48E-11	1.01211	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK3-ROO-LFO	*	
147	148	7	8.48E-11	1.01552	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	
148	149	7	8.48E-11	1.01893	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	HACTK9-ROO-LFO	*	
149	150	7	8.48E-11	1.02234	CONT-LEAK	RA-1-1-27H	RA-1-1-27H	RA-1-1-27H	SUR-001-L	*	

151	70	8	3.88E-11	0.93711	1E235A-BCC-LF	CONT-LEAK	HACTK3-R00-LFO	1E-11	*
152					LAK18BRB-R00-LFO	LA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L	*
153	75	7	3.59E-11	0.94028	CONT-LEAK	HCD1K14-R00-LFO	1E-1101	LAK18BRB-R00-LFO	*
154					RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L		*
155	74	7	3.59E-11	0.94345	CONT-LEAK	HCD1K14-R00-LFO	1E-1101	LAK28RCE-R00-LFO	*
156					RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L		*
157	79	7	3.29E-11	0.94636	CONT-LEAK	W5C001C-FMS-LF	1E-1101	LAK18BRB-R00-LFO	*
158					RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L		*
159	78	7	3.29E-11	0.94926	CONT-LEAK	W5C001C-FMS-LF	1E-1101	LAK28RCE-R00-LFO	*
160					RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L		*
161	77	7	3.11E-11	0.95201	CONT-LEAK	HACTK3-R00-LFO	1E-1101	LAK28RCE-R00-LFO	*
162					RA-1-1-27H	HACTK3-R00-LFO	1E-1101		*
163	76	7	3.11E-11	0.95476	RCICRMCOOL-FLAG	SEVY03AX-ACR-LFI	SUR-001-L	RA-1-3-27H	*
164					CONT-LEAK	HACTK3-R00-LFO	1E-1101		*
165	81	8	2.51E-11	0.95698	RCICRMCOOL-FLAG	SEVY03AX-ACR-LFI	SUR-001-L	RA-1-3-27H	*
166					CONT-LEAK	FLOW-RHR-B3	W5C001C-FMS-LF	1E-1101	*
167	80	9	2.51E-11	0.95919	LAK93BRC-R00-LFO	RA-2-11-27H	RCICRMCOOL-FLAG	SUR-001-L	*
168					CONT-LEAK	W5C001C-FMS-LF	1E-1101	LAK14BRC-R00-LFO	*
169					NOFLOW-CSS-B7A	NOFLOW-SPL-85X	RA-2-11-27H	RCICRMCOOL-FLAG	*
170	85	8	2.22E-11	0.96116	CONT-LEAK	FLOW-RHR-A3	HACTK9-R00-LFO	1E-1102	*
171					LAK93ARC-R00-LFO	RA-1-3-27H	RCIC001X-TOP-LF	SUR-001-L	*
172	84	8	2.22E-11	0.96312	CONT-LEAK	FLOW-RHR-A3	HACTK3-R00-LFO	1E-1102	*
173					LAK93ARC-R00-LFO	RA-1-3-27H	RCIC001X-TOP-LF	SUR-001-L	*
174	83	8	2.22E-11	0.96508	CONT-LEAK	FLOW-RHR-B3	HACTK9-R00-LFO	1E-1101	*
175					LAK93BRC-R00-LFO	RA-1-3-27H	RCIC001X-TOP-LF	SUR-001-L	*
176	82	8	2.22E-11	0.96705	CONT-LEAK	FLOW-RHR-B3	HACTK3-R00-LFO	1E-1101	*
177					LAK93BRC-R00-LFO	RA-1-3-27H	RCIC001X-TOP-LF	SUR-001-L	*
178	89	7	2.15E-11	0.96894	C2D601F-PLG-LF	CONT-LEAK	HACTK9-R00-LFO	1E-1101	*
179					RA-1-3-27H	RCICRMCOOL-FLAG	SUR-001-L		*
180	88	7	2.15E-11	0.97084	C0D601F-PLG-LF	CONT-LEAK	HACTK9-R00-LFO	1E-1102	*
181					RA-1-3-27H	RCICRMCOOL-FLAG	SUR-001-L		*
182	87	7	2.15E-11	0.97274	C0D601F-PLG-LF	CONT-LEAK	HACTK3-R00-LFO	1E-1102	*
183					RA-1-3-27H	RCICRMCOOL-FLAG	SUR-001-L		*
184	86	7	2.15E-11	0.97464	C2D601F-PLG-LF	CONT-LEAK	HACTK3-R00-LFO	1E-1101	*
185					RA-1-3-27H	RCICRMCOOL-FLAG	SUR-001-L		*
186	95	8	2.00E-11	0.97641	CONT-LEAK	FLOW-RHR-B3	HACTK3-R00-LFO	1E-1101	*
187					LAK93BRC-R00-LFO	RA-1-3-27H	HACTCP1-FUS-LF	1E-1101	*
188	94	8	2.00E-11	0.97817	CONT-LEAK	FLOW-RHR-B3	RCICRMCOOL-FLAG	SUR-001-L	*
189					LAK93BRC-R00-LFO	RA-1-3-27H	HACTCP2-FUS-LF	1E-1101	*
190	93	9	2.00E-11	0.97994	CONT-LEAK	HACTCP1-FUS-LF	RCICRMCOOL-FLAG	SUR-001-L	*
191					NOFLOW-CSS-B7A	NOFLOW-SPL-85X	1E-1101	LAK14BRC-R00-LFO	*
192					SUR-001-L	HACTCP2-FUS-LF	RA-1-3-27H	RCICRMCOOL-FLAG	*
193	92	9	2.00E-11	0.98171	CONT-LEAK	NOFLOW-SPL-85X	1E-1101	LAK14BRC-R00-LFO	*
194					W5C001C-FMS-LF	NOFLOW-SPL-85X	RA-1-3-27H	RCICRMCOOL-FLAG	*
195					SUR-001-L				*
196	91	7	2.00E-11	0.98347	CONT-LEAK	HACTK3-R00-LFO	1E-1101	RA-1-3-27H	*
197					RCICRMCOOL-FLAG	SEVY03CB-FMS-LF	SUR-001-L		*
198	90	7	2.00E-11	0.98524	CONT-LEAK	HACTK9-R00-LFO	1E-1101	RA-1-3-27H	*
199					RCICRMCOOL-FLAG	SEVY03CB-FMS-LF	SUR-001-L		*
200	103	7	1.98E-11	3.98699	APG60KACP1-LFCD	CONT-LEAK	HACTK9-R00-LFO	1E-1101	*
201					RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L		*
202	102	7	1.98E-11	0.98873	CONT-LEAK	HACTK3CP5-LFCD	1E-1101	LAK28RCE-R00-LFO	*
203					RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L		*

204	99	8E-11	0.99047	AP040KCP1-LF00	CONT-LEAK	HACTK3-ROO-LFO	HACTK3-ROO-LFO	IE-T101	*
205				RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L	SUR-001-L		*
206				CONT-LEAK	HACTK30P5-LF00	IE-T101	IE-T101	LAK10BRB-ROO-LFO	*
207				RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L	SUR-001-L		*
208	10			CONT-LEAK	HACTK9-ROO-LFO	IE-T101	IE-T101	LAK3BRCKCP1-LF00	*
209				RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L	SUR-001-L		*
210	100	7	1.98E-11	0.99571	CONT-LEAK	HACTK9-ROO-LFO	IE-T101	LAK28BKCP4-LF00	*
211				3A-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L	SUR-001-L		*
212	98	7	1.7E-11	0.99745	CONT-LEAK	HACTK3-ROO-LFO	IE-T101	LAK3BRCKCP1-LF00	*
213				RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L	SUR-001-L		*
214	97	7	1.5E-11	0.99920	CONT-LEAK	HACTK3-ROO-LFO	IE-T101	LAK28BKCP4-LF00	*
215				RA-1-1-27H	RCICRMCOOL-FLAG	SUR-001-L	SUR-001-L		*
216	105	8	1.56E-12	0.99933	CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	IF 19A	*
217				LAK93BRC-ROO-LFO	OPFAIL-VENT-6H	RA-1-3-27H	RA-1-3-27H	SUR-001-L	*
218	104	8	1.56E-12	0.99947	CONT-LEAK	FLOW-RHR-B3	HACTK3-ROO-LFO	IE-19A	*
219				LAK93BRC-ROO-LFO	OPFAIL-VENT-6H	RA-1-3-27H	RA-1-3-27H	SUR-001-L	*
220	109	7	1.26E-12	0.99958	CONT-L.S.NC	HACTK9-ROO-LFO	IE-19A	LAK98RCB-ROO-LFO	*
221				OPFAIL-VENT-6H	RA-1-1-27H	SUR-001-L	SUR-001-L		*
222	108	7	1.26E-12	0.99969	CONT-LEAK	HACTK3-ROO-LFO	IE-19A	LAK98RCB-ROO-LFO	*
223				OPFAIL-VENT-6H	RA-1-1-27H	SUR-001-L	SUR-001-L		*
224	107	7	1.26E-12	0.99980	CONT-LEAK	HACTK9-ROO-LFO	IE-19A	LAK10BRB-ROO-LFO	*
225				OPFAIL-VENT-6H	RA-1-1-27H	SUR-001-L	SUR-001-L		*
226	106	7	1.26E-12	0.99992	CONT-LEAK	HACTK3-ROO-LFO	IE-19A	LAK10BRB-ROO-LFO	*
227				OPFAIL-VENT-6H	RA-1-1-27H	SUR-001-L	SUR-001-L		*
228	111	7	9.34E-14	0.99992	CONT-LEAK	CSCD300B-PLG-LF	HACTK9-ROO-LFO	IE-19A	*
229				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L		*
230	110	7	9.34E-14	0.99993	CONT-LEAK	CSCD300B-PLG-LF	HACTK3-ROO-LFO	IE-19A	*
231				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L		*
232	115	7	5.60E-14	0.99994	CONT-LEAK	EE-CSCD300B-PLG	HACTK3-ROO-LFO	IE-19A	*
233				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L		*
234	114	7	5.60E-14	0.99994	CONT-LEAK	EE-C2D601F-PLG	HACTK3-ROO-LFO	IE-19A	*
235				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L		*
236	113	7	5.60E-14	0.99995	CONT-LEAK	EE-C2D601F-PLG	HACTK9-ROO-LFO	IE-19A	*
237				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L		*
238	112	7	5.60E-14	0.99995	CONT-LEAK	EE-CSCD300B-PLG	HACTK9-ROO-LFO	IE-19A	*
239				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L		*
240	117	11	5.42E-14	0.99996	CODG01F-PLG-LF	RA-1-3-27H	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
241				IE-T5	LAK93BRC-ROO-LFO	OPFAIL-VENT-6H	FLOW-RHR-B3	RA-1-3-27H	*
242	116	11	5.42E-14	0.99996	RCICRMCOOL-FLAG	SUR-001-L	T5MFSS0PERCENT	HACTK9-ROO-LFO	*
243				CODG01F-PLG-LF	CONT-LEAK	FLOW-RHR-B3	FLOW-RHR-B3	RA-1-3-27H	*
244				IE-T5	LAK93BRC-ROO-LFO	OPFAIL-VENT-6H	T5MFSS0PERCENT	RA-1-3-27H	*
245	121	7	4.51E-14	0.99997	RCICRMCOOL-FLAG	SUR-001-L	HACTK3-ROO-LFO	IE-19A	*
246				C2D601F-PLG-LF	CONT-LEAK	RA-1-3-27H	HACTK3-ROO-LFO	IE-19A	*
247				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L	IE-19B	*
248	120	8	4.51E-14	0.99997	CODG01F-PLG-LF	CONT-LEAK	HACTK9-ROO-LFO	SUR-001-L	*
249				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	RCICRMCOOL-FLAG	IE-19B	*
250	119	8	4.51E-14	0.99997	CODG01F-PLG-LF	CONT-LEAK	HACTK3-ROO-LFO	HACTK3-ROO-LFO	*
251				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	RCICRMCOOL-FLAG	SUR-01-L	*
252	118	7	4.51E-14	0.99998	C2D601F-PLG-LF	CONT-LEAK	HACTK9-ROO-LFO	IE-19A	*
253				OPFAIL-VENT-6H	RA-1-3-27H	SUR-001-L	SUR-001-L		*

SEQUENCE 172

TOP EVENT CPDSB2-T-SEQ5B CONTAINS 72 EVENTS IN 127 CUT SETS

THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ5B IS 5.76E-12

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ5B

N	300
MEAN	1.63E-11
STD DEV	1.59E-10
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.50E-11

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. 1... BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE 172  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	PROB (RANK)	RISK			UPPER 5%
				REDUCTION (RANK)	LOWER 5%	UPPER 5%	
PC10MCOOL-FLAG	107	1.00E+00	( 4.0)	5.71E-12	( 1.0)		
SUR-007-R	95	2.90E-04	( 64.0)	4.94E-12	( 2.0)	0.00E+00	1.45E-11
RA-1-3-27H	73	2.60E-03	( 37.5)	3.08E-12	( 3.0)	0.00E+00	5.29E-12
HACTK3-ROO-LFO	47	2.00E-02	( 14.0)	2.49E-12	( 4.0)	0.00E+00	6.58E-12
HACTK9-ROO-LFO	47	2.00E-02	( 14.0)	2.35E-12	( 5.0)	0.00E+00	6.98E-12
RA-1-1-27H	46	2.10E-03	( 42.5)	2.23E-12	( 6.0)	0.00E+00	7.04E-12
FLOW-RHR-83	26	1.00E+00	( 4.0)	1.33E-12	( 7.0)		
LAK938RC-ROO-LFO	22	2.00E-02	( 14.0)	1.13E-12	( 8.0)	0.00E+00	1.84E-12
LAK98RCB-ROO-LFO	17	2.00E-02	( 14.0)	9.43E-13	( 9.5)	0.00E+00	3.16E-12
LAK189RB-ROO-LFO	17	2.00E-02	( 14.0)	9.43E-13	( 9.5)	0.00E+00	3.18E-12
SUR-029-R	30	2.90E-04	( 64.0)	8.07E-13	( 11.0)	0.00E+00	1.05E-12
LAK148RC-RCD-LFO	5	2.00E-02	( 14.0)	6.42E-13	( 13.0)	0.00E+00	1.51E-12
NOFLOW-SPC-85X	5	1.00E+00	( 4.0)	6.42E-13	( 13.0)		
NOFLOW-CSS-87A	5	1.00E+00	( 4.0)	6.42E-13	( 13.0)		
RA-2-11-27H	6	1.60E-03	( 44.0)	3.55E-13	( 15.0)	0.00E+00	8.97E-13
RHRH07BK-RTX-LFB	2	6.20E-03	( 18.0)	2.34E-13	( 16.0)	0.00E+00	3.12E-13
HACTK3CP9-LFDD	3	2.90E-03	( 28.0)	1.43E-13	( 17.0)	0.00E+00	2.98E-13
1EB235A-BCO-LF	6	7.20E-05	( 66.0)	1.28E-13	( 18.0)	0.00E+00	1.54E-13
HCS001C-P-UUM	3	3.00E-03	( 22.5)	1.26E-13	( 19.0)	0.00E+00	4.70E-13
EE-CST-LVL	3	1.00E+00	( 4.0)	1.23E-13	( 21.0)		
HCSF015C-VCC-CS	3	2.50E-03	( 37.0)	1.23E-13	( 21.0)	0.00E+00	2.50E-13
HCSF004C-VCC-CS	3	2.50E-03	( 37.0)	1.23E-13	( 21.0)	0.00E+00	2.50E-13
HACTK9CP7-LFDD	3	2.90E-03	( 28.0)	1.22E-13	( 23.0)	0.00E+00	2.78E-13
RHR028B-P-UUM	2	3.00E-03	( 22.5)	1.13E-13	( 26.5)	0.00E+00	1.35E-13
RHR028B-P-NUUM	2	3.00E-03	( 22.5)	1.13E-13	( 26.5)	0.00E+00	2.08E-13
CDDGG01P-P-UUM	2	3.00E-03	( 22.5)	1.13E-13	( 26.5)	0.00E+00	2.08E-13
RHR003B-P-UUM	2	3.00E-03	( 22.5)	1.13E-13	( 26.5)	0.00E+00	1.35E-13
SCSF048B-DENER	2	1.00E+00	( 4.0)	1.13E-13	( 26.5)		
C2D001P-P-UUM	2	3.00E-03	( 22.5)	1.13E-13	( 26.5)	0.00E+00	2.08E-13
LAK938CP3-LFCC	2	2.90E-03	( 28.0)	1.09E-13	( 30.0)	0.00E+00	1.13E-13
HCS001C-PMS-CS	3	2.50E-03	( 37.0)	1.05E-13	( 31.0)	0.00E+00	2.25E-13
LAK38RCB-RCD-LFO	2	3.40E-03	( 19.0)	1.04E-13	( 32.0)	0.00E+00	3.14E-13
RA-2-3-27H	2	2.60E-03	( 31.5)	9.42E-14	( 36.0)	0.00E+00	1.05E-13
RHRF488B-V00-CC	2	2.50E-03	( 37.0)	9.42E-14	( 36.0)	0.00E+00	1.05E-13
CSCF068B-VCC-CC	2	2.50E-03	( 37.0)	9.42E-14	( 36.0)	0.00E+00	1.05E-13
CDDG01P-PMS-CC	2	2.50E-03	( 37.0)	9.42E-14	( 36.0)	0.00E+00	1.05E-13
SEVY03CB-PMS-CC	2	2.50E-03	( 37.0)	9.42E-14	( 36.0)	0.00E+00	1.05E-13
C2D001P-PMS-CC	2	2.50E-03	( 37.0)	9.42E-14	( 36.0)	0.00E+00	1.05E-13
RHR6018B-800-CC	2	2.50E-03	( 37.0)	9.42E-14	( 36.0)	0.00E+00	1.05E-13
LAK98CP3-LF00	2	2.90E-03	( 28.0)	8.83E-14	( 40.5)	0.00E+00	2.18E-13
LAK188CP1-LF00	2	2.90E-03	( 28.0)	8.83E-14	( 40.5)	0.00E+00	2.18E-13
HCO1K14-ROO-LFO	3	1.20E-03	( 45.5)	5.92E-14	( 42.0)	0.00E+00	1.53E-13
HCS001C-PMS-LF	4	1.10E-03	( 48.5)	5.90E-14	( 43.0)	0.00E+00	1.11E-13
CSC0300B-PL6-LF	4	1.20E-03	( 45.5)	4.53E-14	( 44.0)	0.00E+00	3.74E-14
RC1C001K-T0P-LF	4	3.00E-02	( 10.0)	4.52E-14	( 45.0)	0.00E+00	2.38E-14



RHRC02BB-PMS-LF	2	1.10E-03 ( 48.5)	4.15E-14 ( 47.0)	0.00E+00	5.04E-14
C0DG01P-PMS-LF	2	1.10E-03 ( 48.5)	4.15E-14 ( 47.0)	0.00E+00	5.04E-14
C2DG01P-PMS-LF	2	1.10E-03 ( 48.5)	4.15E-14 ( 47.0)	0.00E+00	5.04E-14
SEVY03AX-ACK-LF1	2	8.40E-04 ( 51.0)	3.17E-14 ( 49.0)	0.00E+00	2.88E-14
LAK93ARC-ROG-LFO	2	2.00E-02 ( 14.0)	2.26E-14 ( 51.0)	0.00E+00	1.19E-14
FLOW-RHP-A3	2	1.00E+00 ( 4.0)	2.26E-14 ( 51.0)		
SUR-009-R	2	2.90E-04 ( 64.0)	2.26E-14 ( 51.0)	0.00E+00	1.19E
C0DG01F-PLG-LF	10	5.80E-04 ( 58.5)	2.21E-14 ( 53.0)	0.00E+00	2.74E
C2DG01F-PLG-LF	4	5.80E-04 ( 58.5)	2.19E-14 ( 54.0)	0.00E+00	1.75E-14
HACTCPF2-FUS-LF	3	5.40E-04 ( 61.0)	2.04E-14 ( 55.5)	0.00E+00	1.89E-14
HACTCPF1-FUS-LF	3	5.40E-04 ( 61.0)	2.04E-14 ( 55.5)	0.00E+00	1.89E-14
SEVY03CB-FMS-LF	2	5.40E-04 ( 61.0)	2.04E-14 ( 57.0)	0.00E+00	5.19E-14
AP040X4CP1-LFCO	2	6.60E-04 ( 55.5)	2.01E-14 ( 59.5)	0.00E+00	8.11E-14
HACTK13CP5-LFCO	2	6.60E-04 ( 55.5)	2.01E-14 ( 59.5)	0.00E+00	8.11E-14
LAK38RCXCP1-LFCO	2	6.60E-04 ( 55.5)	2.01E-14 ( 59.5)	0.00E+00	8.11E-14
LAK28BXC4-LFCO	2	6.60E-04 ( 55.5)	2.01E-14 ( 59.5)	0.00E+00	8.11E-14
OPFAIL-VENT-6H	24	2.10E-03 ( 42.5)	4.63E-15 ( 62.0)	0.00E+00	1.58E-14
T5MFS50PERCENT	6	5.00E-01 ( 9.0)	1.44E-16 ( 63.0)		
EE-CSCD300B-PLG	2	7.20E-04 ( 52.5)	5.70E-17 ( 64.5)	0.00E+00	3.83E-17
FE-C2DG01F-PLG	2	7.20E-04 ( 52.5)	5.70E-17 ( 64.5)	0.00E+00	3.83E-17
CONT-LEAK	127	7.50E-01 ( 8.0)	-1.73E-11 ( 66.0)	0.00E+00	0.00E+00

SEQUENCE 17z  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
SUR-007-R	95	2.90E-04 ( 64.0)	1.70E-08 ( 1.0)	0.00E+00	3.67E-08
SUR-029-R	30	2.90E-04 ( 64.0)	2.76E-09 ( 2.0)	0.00E+00	2.73E-09
1ER235A-SCO-F	6	7.20E-05 ( 65.0)	1.77E-09 ( 3.0)	0.00E+00	6.56E-09
RA-1-3-27H	73	2.60E-03 ( 31.5)	1.18E-09 ( 4.0)	0.00E+00	5.11E-09
RA-1-1-27H	46	2.10E-03 ( 42.5)	1.06E-09 ( 5.0)	0.00E+00	4.49E-09
RA-2-11-27H	6	1.60E-03 ( 44.0)	2.21E-10 ( 6.0)	0.00E+00	8.96E-10
HACTK3-R00-LFG	47	2.00E-02 ( 14.0)	1.22E-10 ( 7.0)	0.00E+00	6.30E-10
HACTK9-R00-LFG	47	2.00E-02 ( 14.0)	1.15E-10 ( 8.0)	0.00E+00	5.98E-10
SUR-009-R	2	2.90E-04 ( 64.0)	7.80E-11 ( 9.0)	0.00E+00	3.75E-11
LAK93BRC-R00-LFO	22	2.00E-02 ( 14.0)	5.53E-11 ( 10.0)	0.00E+00	3.04E-10
HCS001C-PMS-LF	4	1.10E-03 ( 48.5)	5.36E-11 ( 11.0)	0.00E+00	2.13E-10
HCD1K14-R00-LFG	3	1.20E-03 ( 45.5)	4.92E-11 ( 12.0)	0.00E+00	1.94E-10
HCSF004C-VCC-ES	3	2.50E-03 ( 37.0)	4.92E-11 ( 13.5)	0.00E+00	1.94E-10
HCSF015C-VCC-CS	3	2.50E-03 ( 37.0)	4.92E-11 ( 13.5)	0.00E+00	1.94E-10
HACTK3CF9-LFG	3	2.90E-03 ( 28.0)	4.92E-11 ( 15.0)	0.00E+00	1.94E-10
LAK9BRCB-R00-LFO	17	2.00E-02 ( 14.0)	4.52E-11 ( 16.5)	0.00E+00	2.60E-10
LAK188BB-R00-LFG	17	2.00E-02 ( 14.0)	4.62E-11 ( 16.5)	0.00E+00	2.60E-10
HCS001C-PMS-CS	3	2.50E-03 ( 37.0)	4.19E-11 ( 18.0)	0.00E+00	1.81E-10
HACTK9CP7-LFG	3	2.90E-03 ( 28.0)	4.19E-11 ( 19.0)	0.00E+00	1.81E-10
HCS001C-P-UUM	3	3.00E-03 ( 22.5)	4.19E-11 ( 20.0)	0.00E+00	1.81E-10
C00G01F-PLG-LF	10	5.80E-04 ( 58.5)	3.80E-11 ( 21.0)	0.00E+00	8.30E-11
C2D0G01F-PLG-LF	4	5.80E-04 ( 58.5)	3.78E-11 ( 22.0)	0.00E+00	8.29E-11
C5CD300B-PLG-LF	4	1.20E-03 ( 45.5)	3.77E-11 ( 23.0)	0.00E+00	8.28E-11
HACTCPF2-FUS-LF	3	5.40E-04 ( 61.0)	3.77E-11 ( 24.5)	0.00E+00	8.28E-11
HACTCPF1-FUS-LF	3	5.40E-04 ( 61.0)	3.77E-11 ( 24.5)	0.00E+00	8.28E-11
SEVY03CB-PMS-LF	2	5.40E-04 ( 61.0)	3.77E-11 ( 26.0)	0.00E+00	8.28E-11
SEY03AK-ACK-LFI	2	8.40E-04 ( 51.0)	3.77E-11 ( 27.0)	0.00E+00	8.28E-11
RHRC02BB-PMS-LF	2	1.10E-03 ( 48.5)	3.77E-11 ( 29.0)	0.00E+00	8.28E-11
C00G01P-PMS-LF	2	1.10E-03 ( 48.5)	3.77E-11 ( 29.0)	0.00E+00	8.28E-11
C2D0G01P-PMS-LF	2	1.10E-03 ( 48.5)	3.77E-11 ( 29.0)	0.00E+00	8.28E-11
SEVY03CB-PMS-CC	2	2.50E-03 ( 37.0)	3.76E-11 ( 33.5)	0.00E+00	8.26E-11
RHRF488B-V00-CC	2	2.50E-03 ( 37.0)	3.76E-11 ( 33.5)	0.00E+00	8.26E-11
C5CF068B-VCC-CC	2	2.50E-03 ( 37.0)	3.76E-11 ( 33.5)	0.00E+00	8.26E-11
C00G01P-PMS-CC	2	2.50E-03 ( 37.0)	3.76E-11 ( 33.5)	0.00E+00	8.26E-11
RHRB018B-B00-CC	2	2.50E-03 ( 37.0)	3.76E-11 ( 33.5)	0.00E+00	8.26E-11
C2D0G01P-PMS-CC	2	2.50E-03 ( 37.0)	3.76E-11 ( 33.5)	0.00E+00	8.26E-11
LAK93BPC3-LFCC	2	2.90E-03 ( 28.0)	3.76E-11 ( 37.0)	0.00E+00	8.26E-11
RHRC02BB-P-NDUUM	2	3.00E-03 ( 22.5)	3.76E-11 ( 40.0)	0.00E+00	8.27E-11
RHRC003B-P-UUM	2	3.00E-03 ( 22.5)	3.76E-11 ( 40.0)	0.00E+00	8.27E-11
RHRC028B-P-UUM	2	3.00E-03 ( 22.5)	3.76E-11 ( 40.0)	0.00E+00	8.27E-11
C00G01P-P-UUM	2	3.00E-03 ( 22.5)	3.76E-11 ( 40.0)	0.00E+00	8.27E-11
C2D0G01P-P-UUM	2	3.00E-03 ( 22.5)	3.76E-11 ( 40.0)	0.00E+00	8.27E-11
RHRM018X-RTX-LFB	2	6.20E-03 ( 18.0)	3.75E-11 ( 43.0)	0.00E+00	8.25E-11
RA-2-3-27H	2	2.60E-03 ( 31.5)	3.62E-11 ( 44.0)	0.00E+00	1.40E-10
LAK14BRC-R00-LFO	5	2.00E-02 ( 14.0)	3.15E-11 ( 45.0)	0.00E+00	9.16E-11

HACTK130P5-LFCO	2	6.60E-04	( 55.5)	3.04E-11	( 47.5)	0.00E+00	1.44E+10
AP04046CP1-LFCO	2	6.60E-04	( 55.5)	3.04E-11	( 47.5)	0.00E+00	1.44E+10
LAK3BRCKCP1-LFCO	2	6.60E-04	( 55.5)	3.04E-11	( 47.5)	0.00E+00	1.44E+10
LAK28BKC04-LFCO	2	6.60E-04	( 55.5)	3.04E-11	( 47.5)	0.00E+00	1.44E+10
LAK9BCP3-LFCO	2	2.90E-03	( 28.0)	3.04E-11	( 50.5)	0.00E+00	1.44E+10
LAK18BCP1-LFCO	2	2.90E-03	( 28.0)	3.04E-11	( 50.5)	0.00E+00	1.44E+10
LAK3BRCB-RCD-LFO	2	3.40E-03	( 19.0)	3.03E-11	( 52.0)	0.00E+00	1.44E+10
OPFAIL-VENT-6H	24	2.10E-03	( 42.5)	2.20E-12	( 53.0)	0.00E+00	6.59E-12
RC1C001X-TDP-LF	4	3.00E-02	( 10.0)	1.46E-12	( 54.0)	0.00E+00	1.63E-12
LAK93ARC-R00-LFO	2	2.00E-02	( 14.0)	1.1E-12	( 55.0)	0.00E+00	9.73E-13
EE-CSCD300B-PLG	2	7.20E-04	( 52.5)	7.91E-14	( 56.5)	0.00E+00	7.21E-14
EE-CZ0G01F-PLG	2	7.20E-04	( 52.5)	7.1E-14	( 56.5)	0.00E+00	7.21E-14
TSWFS50PERCENT	6	5.00E-01	( 9.0)	1.44E-16	( 58.0)		
SCSFD58B-DENER	2	1.00E+00	( 4.0)	0.00E+00	( 62.0)		
RC1CRMCOOL-FLAG	107	1.00E+00	( 4.0)	0.00E+00	( 62.0)		
NOFLOW-SPC-B5X	5	1.00E+00	( 4.0)	0.00E+00	( 62.0)		
NOFLOW-CSS-B7A	5	1.00E+00	( 4.0)	0.00E+00	( 62.0)		
FLOW-RHR-B3	26	1.00E+00	( 4.0)	0.00E+00	( 62.0)		
FLOW-RHR-A3	2	1.00E+00	( 4.0)	0.00E+00	( 62.0)		
EE-CST-LVL	3	1.00E+00	( 4.0)	0.00E+00	( 62.0)		
CONT-LEAK	127	7.50E-01	( 8.0)	-5.76E-12	( 66.0)	-1.50E-11	0.00E+00

SEQUENCE 172  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE LOG RISK OF LOG RISK	(RANK)	Y.05/TE.05*	Y.95/TE.95*
CONT-LEAK	127	7.50E-01	( 8.0)	50.0	( 1.0)	NA	0.75
HACTK3-ROO-LFO	47	2.00E-02	( 14.0)	4.4	( 5.0)	NA	2.84
LAK188RB-ROO-LFO	17	2.00E-02	( 14.0)	4.4	( 5.0)	NA	2.84
LAK23ARC-ROO-LFO	2	2.00E-02	( 14.0)	4.4	( 5.0)	NA	2.84
HACTK9-ROO-LFO	47	2.00E-02	( 14.0)	4.4	( 5.0)	NA	2.84
LAK148RC-ROO-LFO	5	2.00E-02	( 14.0)	4.4	( 5.0)	NA	2.84
LAK29RCB-ROO-LFO	17	2.00E-02	( 14.0)	4.4	( 5.0)	NA	2.84
LAK238RC-ROO-LFO	22	2.00E-02	( 14.0)	4.4	( 5.0)	NA	2.84
LAK38RCB-ROO-LFO	2	3.40E-03	( 19.0)	4.4	( 9.0)	NA	0.98
RCT01K14-ROO-LFO	3	1.20E-03	( 45.5)	4.3	( 10.0)	NA	0.99
RCT001K-TDP-LF	4	3.00E-02	( 10.0)	3.6	( 11.0)	NA	1.00
LAK288KCP4-LFCD	2	6.60E-04	( 55.5)	2.8	( 13.5)	NA	0.98
LAK36RCXCP1-LFCD	2	6.60E-04	( 55.5)	2.8	( 13.5)	NA	0.98
HACTK13CP5-LFCD	2	6.60E-04	( 55.5)	2.8	( 13.5)	NA	0.98
AP040X4CP1-LFCD	2	6.60E-04	( 55.5)	2.8	( 13.5)	NA	0.98
1EB235A-800-LF	6	7.20E-05	( 66.0)	2.5	( 16.0)	NA	1.07
SEVY03CB-FMS-LF	2	5.40E-04	( 61.0)	2.1	( 17.0)	NA	1.00
SEVY03AX-ACX-LF1	2	8.40E-04	( 51.0)	1.9	( 18.0)	NA	1.00
RA-2-3-27H	2	2.60E-03	( 31.5)	1.2	( 19.5)	NA	2.03
RA-1-3-27H	73	2.60E-03	( 31.5)	1.1	( 19.5)	NA	2.03
SUR-029-R	30	2.90E-04	( 64.0)	0.0	( 22.0)	NA	
SUR-007-R	95	2.90E-04	( 64.0)	0.0	( 22.0)	NA	
SUR-009-R	2	2.90E-04	( 64.0)	0.0	( 22.0)	NA	
EE-CC0300B-PLG	2	7.20E-04	( 52.5)	0.0	( 22.0)	NA	
HCS001C-PMS-CS	3	2.50E-03	( 37.0)	0.0	( 41.0)	NA	
C2D001F-PLG-LF	4	5.80E-04	( 58.5)	0.0	( 41.0)	NA	
SEVY03CB-FMS-CC	2	2.50E-03	( 37.0)	0.0	( 41.0)	NA	
EE-C2D001F-PLG	2	7.20E-04	( 52.5)	0.0	( 41.0)	NA	
HCSF004C-VCC-CS	3	2.50E-03	( 37.0)	0.0	( 41.0)	NA	
HCSF015C-VCC-CS	3	2.50E-03	( 37.0)	0.0	( 41.0)	NA	
HCS001C-P-UJM	3	3.00E-03	( 22.5)	0.0	( 41.0)	NA	
RHR018B-800-CC	2	2.50E-03	( 37.0)	0.0	( 41.0)	NA	
CSCF068B-VCC-CC	2	2.50E-03	( 37.0)	0.0	( 41.0)	NA	
CSCD300B-PLG-LF	4	1.20E-03	( 45.5)	0.0	( 41.0)	NA	
RA-2-11-27H	6	1.60E-03	( 44.0)	0.0	( 41.0)	NA	
C00G0-P-PMS-LF	2	1.10E-03	( 48.5)	0.0	( 41.0)	NA	
C00G01F-PLG-LF	10	5.80E-04	( 58.5)	0.0	( 41.0)	NA	
HACTK3CP9-LF00	3	2.90E-03	( 28.0)	0.0	( 41.0)	NA	
OPFAIL-VENT-6H	24	2.10E-03	( 42.5)	0.0	( 41.0)	NA	
C2D001P-PMS-LF	2	1.10E-03	( 48.5)	0.0	( 41.0)	NA	
LAK96CP3-LF00	2	2.90E-03	( 28.0)	0.0	( 41.0)	NA	
HACTCP2-FU5-LF	3	5.40E-04	( 61.0)	0.0	( 41.0)	NA	
C00G01P-PMS-CC	2	2.50E-03	( 37.0)	0.0	( 41.0)	NA	
LAK238CP1-LFCD	2	2.90E-03	( 28.0)	0.0	( 41.0)	NA	
RA-1-1-27H	46	2.10E-03	( 42.5)	0.0	( 41.0)	NA	

RA-TFF7-FUS-LF	3	5.40E-04	( 61.0)	0.0	( 41.0)
CG0G01P-PMS-FC	2	2.50E-03	( 37.0)	0.0	( 41.0)
LAK18BCP1-LFOO	2	2.90E-03	( 28.0)	0.0	( 41.0)
C2DGD1P-P-UJM	2	3.00E-03	( 22.5)	0.0	( 41.0)
HACTK9CP7-LFOO	3	2.90E-03	( 28.0)	0.0	( 41.0)
CGDGD1P-P-UJM	2	3.00E-03	( 22.5)	0.0	( 41.0)
RHRC003B-P-UJM	2	3.00E-03	( 22.5)	0.0	( 41.0)
RHRC02BB-P-NDUUM	2	3.00E-03	( 22.5)	0.0	( 41.0)
RHRC0265-P-UJM	2	3.00E-03	( 22.5)	0.0	( 41.0)
RHRC02BB-PMS-LF	2	1.10E-03	( 48.5)	0.0	( 41.0)
RHRF48BB-V00-CC	2	2.50E-03	( 37.0)	0.0	( 41.0)
RHRH01BX-HTX-LFB	2	6.20E-03	( 18.0)	0.0	( 41.0)
NCSC001C-PMS-LF	4	1.10E-03	( 48.5)	0.0	( 41.0)
SCSFG-1-GENER	3	1.00E+00	( 4.0)		
RC:CRMCOO1-FLAG	107	1.00E+00	( 4.0)		
NOFLOW-SPC-B5X	5	1.00E+00	( 4.0)		
NOFLOW-CSS-B7A	5	1.00E+00	( 4.0)		
FLOW-RHR-B3	26	1.00E+00	( 4.0)		
FLOW-RHR-A3	2	1.00E+00	( 4.0)		
TSMFSS0PERCENT	6	5.00E-01	( 9.0)		
EE-CST-LVL	3	1.00E+00	( 4.0)		

SEQUENCE 772

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SET  
 FOR TOP EVENT CPDSB2-T-SEQ5B WITH TOP EVENT FREQUENCY 5.76E-12

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	3	8	3.77E-13	0.06545	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101
3					LAK23BRC-ROO-LFO	* RA-1-3-27H	* RCICRM-...-FLAG	* SUR-007-R
4	2	9	3.77E-13	0.13090	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK14BRC-RCO-LFO
5					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* RCICRMCOOL-FLAG
6					SUR-007-R			
7	1	8	3.77E-13	0.19635	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101
8					LAK23BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R
9	4	7	3.04E-13	0.24921	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK9BRCB-ROO-LFO
10					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	
11	6	7	3.04E-13	0.30207	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK188RB-ROO-LFO
12					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	
13	5	7	3.04E-13	0.35493	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK9BRCB-ROO-LFO
14					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	
15	7	7	3.04E-13	0.40780	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK188RB-ROO-LFO
16					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	
17	8	9	2.32E-13	0.44807	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK14BRC-RCO-LFO
18					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-2-11-27H	* RCICRMCOOL-FLAG
19					SUR-007-R			
20	9	7	1.17E-13	0.46836	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
21					RCICRMCOOL-FLAG	* RHR01B-X-HX-LFB	* SUR-007-R	
22	10	7	1.17E-13	0.48865	/CONT-LEAK	* HACTK9-P90-LFO	* IE-T101	* RA-1-3-27H
23					RCICRMCOOL-FLAG	* RHR01B-X-HX-LFB	* SUR-007-R	
24	29	7	5.65E-14	0.49847	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
25					RCICRMCOOL-FLAG	* RHR02B8-P-NDUJM	* SUR-007-R	
26	27	7	5.65E-14	0.50828	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H
27					RCICRMCOOL-FLAG	* RHR02B8-P-NDUJM	* SUR-007-R	
28	15	7	5.65E-14	0.51810	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H
29					RCICRMCOOL-FLAG	* RHR003B-P-UJM	* SUR-029-R	
30	28	8	5.65E-14	0.52792	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
31					RCICRMCOOL-FLAG	* RHR02B8-P-UJM	* SCSF068B-DENER	
32	26	8	5.65E-14	0.53774	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* SUR-007-R
33					RCICRMCOOL-FLAG	* RHR02B8-P-UJM	* SCSF068B-DENER	
34	16	7	5.65E-14	0.54755	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H
35					RCICRMCOOL-FLAG	* RHR003B-P-UJM	* SUR-029-R	
36	14	7	5.65E-14	0.55737	/CONT-LEAK	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102
37					CD0001P-P-UJM	* RCICRMCOOL-FLAG	* SUR-029-R	
38	13	7	5.65E-14	0.56719	/CONT-LEAK	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102
39					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	
40	12	7	5.65E-14	0.57701	/CONT-LEAK	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101
41					CD0001P-P-UJM	* RCICRMCOOL-FLAG	* SUR-029-R	
42	11	7	5.65E-14	0.58682	/CONT-LEAK	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101
43					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	
44	25	8	5.47E-14	0.59631	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101
45					LAK23BRCPS-LFC	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R

46	24	8	5.47E-14	0.60580	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T101	*
47					LAK938CP3-LFCC	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R	*
48	23	8	5.47E-14	0.61529	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3CP9-LFOO	* IE-T101	*
49					LAK938RC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R	*
50	30	7	5.18E-14	0.62428	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK38RCB-ROO-LFO	*
51					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
52	31	7	5.18E-14	0.63327	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK38RCB-ROO-LFO	*
53					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
54	34	9	4.71E-14	0.64145	/CONT-LEAK	* EE-CST-LVL	* FLOW-RHR-B3	* HCSF011C-VCC-CS	*
55					IE-T101	* LAK938RC-ROO-LFO	* RA-2-3-27H	* RCICRMCOOL-FLAG	*
56					SUR-007-R	+			
57	19	7	4.71E-14	0.64963	C2DG01P-PMS-C	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	*
58					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
59	33	8	4.71E-14	0.65781	/CONT-LEAK	* FLOW-RHR-B3	* HCSF004C-VCC-CS	* IE-T101	*
60					LAK938RC-ROO-LFO	* RA-2-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R	*
61	22	7	4.71E-14	0.66599	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* RA-1-3-27H	*
62					RCICRMCOOL-FLAG	* SEVY03CB-FMS-CC	* SUR-029-R	+	
63	21	7	4.71E-14	0.67417	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
64					RCICRMCOOL-FLAG	* SEVY03CB-FMS-CC	* SUR-029-R	+	
65	20	7	4.71E-14	0.68235	CODG01P-PMS-CC	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T102	*
66					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
67	38	8	4.71E-14	0.69053	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101	*
68					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF488B-V00-CC	* SUR-007-R	*
69	37	7	4.71E-14	0.69871	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* RA-1-3-27H	*
70					RCICRMCOOL-FLAG	* RHRB018B-B00-CC	* SUR-007-R	+	
71	19	7	4.71E-14	0.70690	C2DG01P-PMS-CC	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	*
72					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
73	36	7	4.71E-14	0.71508	/CONT-LEAK	* FLOW-RHR-B3	* IE-T101	* RA-1-3-27H	*
74					RCICRMCOOL-FLAG	* RHRB018B-B00-CC	* SUR-007-R	+	
75	35	7	4.71E-14	0.72326	/CONT-LEAK	* CSCF068B-VCC-CC	* HACTK3-ROO-LFO	* IE-T101	*
76					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
77	32	7	4.71E-14	0.73144	/CONT-LEAK	* CSCF068B-VCC-CC	* HACTK9-ROO-LFO	* IE-T101	*
78					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
79	39	8	4.71E-14	0.73962	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T101	*
80					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF488B-V00-CC	* SUR-007-R	*
81	17	7	4.71E-14	0.74780	CODG01P-PMS-CC	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T102	*
82					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
83	43	7	4.57E-14	0.75573	/CONT-LEAK	* HCSC001C-P-UUM	* IE-T101	* LAK98RCB-ROO-LFO	*
84					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
85	42	7	4.57E-14	0.76366	/CONT-LEAK	* HCSC001C-P-UUM	* IE-T101	* LAK188RB-ROO-LFO	*
86					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
87	49	7	4.42E-14	0.77132	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK98CP3-LFOO	*
88					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
89	48	7	4.42E-14	0.77899	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK188CP1-LFOO	*
90					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
91	47	7	4.42E-14	0.78666	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK188CP1-LFOO	*
92					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
93	46	7	4.42E-14	0.79432	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK98CP3-LFOO	*
94					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
95	44	7	4.42E-14	0.80199	/CONT-LEAK	* HACTK9CP7-LFOO	* IE-T101	* LAK188RB-ROO-LFO	*
96					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
97	41	7	4.42E-14	0.80965	/CONT-LEAK	* HACTK3CP9-LFOO	* IE-T101	* LAK188RB-ROO-LFO	*
98					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	

99	60	7	4.42E-14	0.81732	/CONT-LEAK	HACTK9CP7-LFO	IE-T101	IE-T101	LAK188RB-ROO-LFO
100					RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R		
101	45	7	4.42E-14	0.82498	/CONT-LEAK	HACTK3CP9-LFO	IE-T101	IE-T101	LAK98RCB-ROO-LFO
102					RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R		
103	54	7	3.81E-14	0.71159	/CONT-LEAK	HCSF004C-VCC-CS	IE-T101	IE-T101	LAK188RB-ROO-LFO
104					RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R		
105	53	8	3.81E-14	0.83820	/CONT-LEAK	EE-CST-LVL	HCSF015C-VCC-CS	IE-T101	IE-T101
106					LAK188RB-ROO-LFO	RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R	
107	52	8	3.81E-14	0.86480	/CONT-LEAK	EE-CS-LVL	HCSF015C-VCC-CS	IE-T101	IE-T101
108					LAK98RCB-ROO-LFO	RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R	
109	51	7	3.07E-14	0.85141	/CONT-LEAK	HCSF004C-VCC-CS	IE-T101	IE-T101	LAK98RCB-ROO-LFO
110					RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R		
111	55	7	3.81E-14	0.85802	/CONT-LEAK	HCS001C-PMS-CS	IE-T101	IE-T101	LAK98RCB-ROO-LFO
112					RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R		
113	50	7	3.81E-14	0.86463	/CONT-LEAK	HCS001C-PMS-CS	IE-T101	IE-T101	LAK188RB-ROO-LFO
114					RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R		
115	115	8	3.48E-14	0.87067	/CONT-LEAK	FLOW-RHR-B3	HCS001C-P-UMJ	IE-T101	IE-T101
116					LAK938RC-ROO-LFO	RA-2-11-27H	RC1CRMCOOL-FLAG	SUR-007-R	
117	57	8	3.36E-14	0.87651	/CONT-LEAK	FLOW-RHR-B3	HACTK9CP7-LFO	IE-T101	IE-T101
118					LAK938RC-ROO-LFO	RA-2-11-27H	RC1CRMCOOL-FLAG	SUR-007-R	
119	62	8	2.90E-14	0.88154	/CONT-LEAK	FLOW-RHR-B3	HCS001C-PMS-CS	IE-T101	IE-T101
120					LAK938RC-ROO-LFO	RA-2-11-27H	RC1CRMCOOL-FLAG	SUR-007-R	
121	66	9	2.44E-14	0.88578	1EB235A-BCO-LF	/CONT-LEAK	FLOW-RHR-B3	HACTK9-ROO-LFO	HACTK9-ROO-LFO
122					IE-T1	LAK938RC-ROO-LFO	RA-1-3-27H	RC1CRMCOOL-FLAG	RC1CRMCOOL-FLAG
123					SUR-007-R				
124	65	9	2.44E-14	0.89002	1EB235A-BCO-LF	/CONT-LEAK	FLOW-RHR-B3	HACTK3-ROO-LFO	HACTK3-ROO-LFO
125					IE-T1	LAK938RC-ROO-LFO	RA-1-3-27H	RC1CRMCOOL-FLAG	RC1CRMCOOL-FLAG
126					SUR-007-R				
127	66	8	2.26E-14	0.89395	/CONT-LEAK	FLOW-RHR-B3	HCD1K74-ROO-LFO	IE-T101	IE-T101
128					LAK938RC-ROO-LFO	RA-1-3-27H	RC1CRMCOOL-FLAG	SUR-007-R	
129	68	7	2.26E-14	0.89788	/CONT-LEAK	DSC0300B-PLG-LF	HACTK3-ROO-LFO	IE-T101	IE-T101
130					RA-1-3-27H	RC1CRMCOOL-FLAG	SUR-007-R		
131	67	7	2.26E-14	0.90181	/CONT-LEAK	CSD0300B-PLG-LF	HACTK9-ROO-LFO	IE-T101	IE-T101
132					RA-1-3-27H	RC1CRMCOOL-FLAG	SUR-007-R		
133	71	7	2.07E-14	0.90541	/CONT-LEAK	HACTK9-ROO-LFO	IE-T101	RA-1-3-27H	RA-1-3-27H
134					RC1CRMCOOL-FLAG	RHR028B-PMS-LF	SUR-007-R		
135	70	7	2.07E-14	0.90901	/CONT-LEAK	HACTK3-ROO-LFO	IE-T101	RA-1-3-27H	RA-1-3-27H
136					RC1CRMCOOL-FLAG	RHR028B-PMS-LF	SUR-007-R		
137	61	7	2.07E-14	0.91260	CZD001P-PMS-LF	/CONT-LEAK	HACTK3-ROO-LFO	IE-T101	IE-T101
138					RA-1-3-27H	RC1CRMCOOL-FLAG	SUR-029-R	IE-T102	IE-T102
139	60	7	2.07E-14	0.91620	COD001P-PMS-LF	/CONT-LEAK	HACTK3-ROO-LFO	IE-T101	IE-T101
140					RA-1-3-27H	RC1CRMCOOL-FLAG	SUR-029-R		
141	58	7	2.07E-14	0.91980	CZD001P-PMS-LF	/CONT-LEAK	HACTK9-ROO-LFO	IE-T101	IE-T101
142					RA-1-3-27H	RC1CRMCOOL-FLAG	SUR-029-R		
143	59	7	2.07E-14	0.92340	COD001P-PMS-LF	/CONT-LEAK	HACTK9-ROO-LFO	IE-T102	IE-T102
144					RA-1-3-27H	RC1CRMCOOL-FLAG	SUR-029-R		
145	75	8	1.97E-14	0.92683	1EB235A-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	IE-T1	IE-T1
146					LAK188RB-ROO-LFO	RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R	SUR-007-R
147	74	8	1.97E-14	0.93025	1EB235A-BCO-LF	/CONT-LEAK	HACTK9-ROO-LFO	IE-T1	IE-T1
148					LAK188RB-ROO-LFO	RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R	SUR-007-R
149	73	8	1.07E-14	0.93368	1EB235A-BCO-LF	/CONT-LEAK	HACTK3-ROO-LFO	IE-T1	IE-T1
150					LAK98RCB-ROO-LFO	RA-1-1-27H	RC1CRMCOOL-FLAG	SUR-007-R	SUR-007-R



151	72	8	1.97E-14	0.93711	1E8235A-BCO-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T1	*
152					LAK9BRC7-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+
153	77	7	1.83E-14	0.94028	/CONT-LEAK	* HC01K14-ROO-LFO	* 1E-T101	* LAK9BRCB-ROO-LFO	*
154					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
155	76	7	1.83E-14	0.94345	/CONT-LEAK	* KC01K14-ROO-LFO	* 1E-T101	* LAK188RB-ROO-LFO	*
156					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
157	83	7	1.67E-14	0.94636	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T101	* LAK9BRCB-ROO-LFO	*
158					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
159	82	7	1.67E-14	0.94926	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T101	* LAK188RB-ROO-LFO	*
160					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
161	63	7	1.58E-14	0.95201	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
162					RCICRMCOOL-FLAG	* SEVY03AX-ACX-LF1	* SUR-029-R	+	
163	64	7	1.58E-14	0.95476	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
164					RCICRMCOOL-FLAG	* SEVY03AX-ACX-LF1	* SUR-029-R	+	
165	87	9	1.28E-14	0.95698	/CONT-LEAK	* HCSC001C-PMS-LF	* 1E-T101	* LAK148RC-ROO-LFO	*
166					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-2-11-27H	* RCICRMCOOL-FLAG	*
167					SUR-007-R	+			
168	86	8	1.28E-14	0.95919	/CONT-LEAK	* FLOW-RHR-B3	* HCSC001C-PMS-LF	* 1E-T101	*
169					LAK93BRC-ROO-LFO	* RA-2-11-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+
170	90	8	1.13E-14	0.96116	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* 1E-T101	*
171					LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCIC001X-TDP-LF	* SUR-007-R	+
172	89	8	1.13E-14	0.96312	/CONT-LEAK	* FLOW-RHR-A3	* HACTK3-ROO-LFO	* 1E-T102	*
173					LAK93ARC-ROO-LFO	* RA-1-3-27H	* RCIC001X-TDP-LF	* SUR-009-R	+
174	88	8	1.13E-14	0.96508	/CONT-LEAK	* FLOW-RHR-A3	* HACTK9-ROO-LFO	* 1E-T102	*
175					LAK93ARC-ROO-LFO	* RA-1-3-27H	* RCIC001X-TDP-LF	* SUR-009-R	+
176	91	8	1.13E-14	0.95705	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* 1E-T101	*
177					LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCIC001X-TDP-LF	* SUR-007-R	+
178	81	7	1.09E-14	0.96894	C2D001F-PLG-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	*
179					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
180	80	7	1.09E-14	0.97084	C0D001F-PLG-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T102	*
181					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
182	79	7	1.09E-14	0.97274	C0D001F-PLG-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T102	*
183					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
184	78	7	1.09E-14	0.97464	C2D001F-PLG-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	*
185					RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	+	
186	95	9	1.02E-14	0.97641	/CONT-LEAK	* HACTCPF2-FUS-LF	* 1E-T101	* LAK148RC-ROO-LFO	*
187					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
188					SUR-007-R	+			
189	94	9	1.02E-14	0.97817	/CONT-LEAK	* HACTCPF1-FUS-LF	* 1E-T101	* LAK148RC-ROO-LFO	*
190					NOFLOW-CP1-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
191					SUR-007-R	+			
192	93	8	1.02E-14	0.97994	/CONT-LEAK	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	* 1E-T101	*
193					LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+
194	92	8	1.02E-14	0.98171	/CONT-LEAK	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	* 1E-T101	*
195					LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+
196	85	7	1.02E-14	0.98347	/CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
197					RCICRMCOOL-FLAG	* SEVY03CB-FMS-LF	* SUR-029-R	+	
198	84	7	1.02E-14	0.98524	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* RA-1-3-27H	*
199					RCICRMCOOL-FLAG	* SEVY03CB-FMS-LF	* SUR-029-R	+	
200	102	7	1.00E-14	0.98699	AP040X4CP1-LFCD	* /CONT-LEAK	* HACTK9-ROO-LFO	* 1E-T101	*
201					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	
202	101	7	1.00E-14	0.98873	/CONT-LEAK	* HACTK3-ROO-LFO	* 1E-T101	* LAK3BRCXCP1-LFCD	*
203					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R	+	

204	100	7	1.00E-14	0.99047	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK288XCP4-LFCO	*
205					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R		
206	99	7	1.00E-14	0.99222	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK3BRXCP1-LFCO	*
207					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R		
208	98	7	1.00E-14	0.99396	/CONT-LEAK	* HACTK13CP5-LFCO	* IE-T101	* LAK18BRB-ROO-LFO	*
209					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R		
210	97	7	1.00E-14	0.99571	*PD40K4CP1-LFCO	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	*
211					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R		
212	103	7	1.00E-14	0.99745	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK288XCP4-LFCO	*
213					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R		
214	96	7	1.00E-14	0.99920	/CONT-LEAK	* HACTK13CP5-LFCO	* IE-T101	* LAK9BRCB-ROO-LFO	*
215					RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-007-R		
216	105	8	7.92E-16	0.99933	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T9A	*
217					LAK93BRC-ROO-LFO	* OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-007-R	*
218	104	8	7.92E-16	0.99947	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T9A	*
219					LAK93BRC-ROO-LFO	* OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-007-R	*
220	109	7	6.39E-16	0.99958	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T9A	* LAK18BRB-ROO-LFO	*
221					OPFAIL-VENT-6H	* RA-1-1-27H	* SUR-007-R		
222	108	7	6.39E-16	0.99969	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T9A	* LAK18BRB-ROO-LFO	*
223					OPFAIL-VENT-6H	* RA-1-1-27H	* SUR-007-R		
224	107	7	6.39E-16	0.99980	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T9A	* LAK9BRCB-ROO-LFO	*
225					OPFAIL-VENT-6H	* RA-1-1-27H	* SUR-007-R		
226	106	7	6.39E-16	0.99992	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T9A	* LAK9BRCB-ROO-LFO	*
227					OPFAIL-VENT-6H	* RA-1-1-27H	* SUR-007-R		
228	111	7	4.75E-17	0.99992	/CONT-LEAK	* CSCD300B-PLG-LF	* HACTK3-ROO-LFO	* IE-T9A	*
229					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-007-R		
230	110	7	4.75E-17	0.99993	/CONT-LEAK	* CSCD300B-PLG-LF	* HACTK9-ROO-LFO	* IE-T9A	*
231					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-007-R		
232	119	7	2.85E-17	0.99994	/CONT-LEAK	* EE-CSCD300B-PLG	* HACTK9-ROO-LFO	* IE-T9A	*
233					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-007-R		
234	118	7	2.85E-17	0.99994	/CONT-LEAK	* EE-CSCD300B-PLG	* HACTK3-ROO-LFO	* IE-T9A	*
235					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-007-R		
236	113	7	2.85E-17	0.99995	/CONT-LEAK	* EE-C2DG01F-PLG	* HACTK9-ROO-LFO	* IE-T9A	*
237					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-029-R		
238	112	7	2.85E-17	0.99995	/CONT-LEAK	* EE-C2DG01F-PLG	* HACTK3-ROO-LFO	* IE-T9A	*
239					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-029-R		
240	121	11	2.76E-17	0.99996	CDDG01F-PLG-LF	* /CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
241					IE-T5	* LAK93BRC-ROO-LFO	* OPFAIL-VENT-6H	* RA-1-3-27H	*
242					RCICRMCOOL-FLAG	* SUR-007-R	* TSMFS50PERCENT		
243	120	11	2.76E-17	0.99996	CDDG01F-PLG-LF	* /CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
244					IE-T5	* LAK93BRC-ROO-LFO	* OPFAIL-VENT-6H	* RA-1-3-27H	*
245					RCICRMCOOL-FLAG	* SUR-007-R	* TSMFS50PERCENT		
246	117	7	2.30E-17	0.99996	C2DG01F-PLG-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T9A	*
247					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-029-R		
248	116	8	2.30E-17	0.99997	CDDG01F-PLG-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T9B	*
249					OPFAIL-VENT-6H	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	*
250	115	8	2.30E-17	0.99997	CDDG01F-PLG-LF	* /CONT-LEAK	* HACTK9-ROO-LFO	* IE-T9B	*
251					OPFAIL-VENT-6H	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-029-R	*
252	114	7	2.30E-17	0.99998	C2DG01F-PLG-LF	* /CONT-LEAK	* HACTK3-ROO-LFO	* IE-T9A	*
253					OPFAIL-VENT-6H	* RA-1-3-27H	* SUR-029-R		

SEQUENCE 173

TOP EVENT DPDSA2-T-SEQSA CONTAINS 22 EVENTS IN 18 CUT SETS

THE FREQUENCY OF TOP EVENT DPDSA2-T-SEQSA IS 1.21E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DPDSA2-T-SEQSA

N	300
MEAN	8.60E-09
STD DEV	1.98E-08
LOWER 5%	1.11E-10
LOWER 25%	8.39E-10
MEDIAN	2.73E-09
UPPER 25%	8.22E-09
UPPER 5%	3.23E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTI  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

## SEQUENCE T73

## RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RCICRMCOOL-FLAG	17	1.00E+00 ( 3.0)	9.24E-09 ( 1.0)		
DGCOOL-PMS-CM	2	2.50E-03 ( 13.0)	6.19E-09 ( 2.5)	3.41E-11	2.12E-08
DGCOOL-BETA	2	1.10E-01 ( 6.0)	6.19E-09 ( 2.5)	3.41E-11	2.12E-08
RA-1-1-27H	10	2.10E-03 ( 16.5)	4.17E-09 ( 4.0)	7.71E-12	9.58E-09
RA-3-12-2H	1	2.40E-03 ( 15.0)	3.30E-09 ( 5.0)	6.45E-12	1.15E-08
OPFAIL-VENT-6H	1	2.10E-03 ( 16.5)	2.89E-09 ( 6.5)	1.17E-11	7.95E-09
RA-NONE	1	1.00E+00 ( 3.0)	2.89E-09 ( 6.5)		
LAK9BRCB-ROO-LFO	5	2.00E-02 ( 8.5)	2.09E-09 ( 8.5)	3.86E-12	4.79E-09
LAK18BRB-ROO-LFO	5	2.00E-02 ( 8.5)	2.09E-09 ( 8.5)	3.86E-12	4.79E-09
RA-2-11-27H	6	1.60E-03 ( 18.0)	1.77E-09 ( 10.0)	3.20E-12	5.02E-09
CSCC002-P-UUM	3	3.00E-03 ( 11.0)	1.74E-09 ( 11.0)	3.59E-12	5.29E-09
FLOW-RHR-B3	5	1.00E+00 ( 3.0)	1.59E-09 ( 12.5)		
LAK93BRC-ROO-LFO	5	2.00E-02 ( 8.5)	1.59E-09 ( 12.5)	2.88E-12	4.55E-09
SWVY02CC-FMS-CC	3	2.50E-03 ( 13.0)	1.45E-09 ( 14.5)	1.77E-12	3.12E-09
CSCC002-PMS-CC	3	2.50E-03 ( 13.0)	1.45E-09 ( 14.5)	1.72E-12	3.12E-09
CSCC002-PMS-LF	4	1.10E-03 ( 19.0)	8.14E-10 ( 16.0)	2.18E-12	1.79E-09
SWVY02AX-ACX-LFI	3	8.40E-04 ( 20.0)	4.87E-10 ( 17.0)	6.13E-13	1.27E-09
LAK14BRC-RCD-LFO	1	2.00E-02 ( 8.5)	1.76E-10 ( 19.0)	1.95E-13	4.97E-10
NOFLOW-SPC-B5X	1	1.00E+00 ( 3.0)	1.76E-10 ( 19.0)		
NOFLOW-CSS-B7A	1	1.00E+00 ( 3.0)	1.76E-10 ( 19.0)		

SEQUENCE 173

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
DGCOOL-PMS-CM	2	2.50E-03 ( 13.0)	2.47E-06 ( 1.0)	1.28E-07	9.82E-06
RA-1-1-27H	10	2.10E-03 ( 16.5)	1.98E-06 ( 2.0)	1.97E-08	7.23E-06
OPFAIL-VENT-6H	1	2.10E-03 ( 16.5)	1.37E-06 ( 3.0)	1.76E-08	5.37E-06
RA-3-12-2H	1	2.40E-03 ( 15.0)	1.37E-06 ( 4.0)	1.75E-08	5.36E-06
RA-2-11-27H	6	1.60E-03 ( 18.0)	1.10E-06 ( 5.0)	1.24E-08	3.85E-06
CSCC002-PMS-LF	4	1.10E-03 ( 19.0)	7.39E-07 ( 6.0)	3.97E-09	2.11E-06
SWYD2AX-ACX-LFI	3	8.40E-04 ( 20.0)	5.80E-07 ( 7.0)	3.60E-09	1.58E-06
SWYD2CC-FMS-CC	3	2.50E-03 ( 13.0)	5.79E-07 ( 8.5)	3.59E-09	1.57E-06
CSCC002-PMS-CC	3	2.50E-03 ( 13.0)	5.79E-07 ( 8.5)	3.59E-09	1.57E-06
CSCC002-P-UUM	3	3.00E-03 ( 11.0)	5.78E-07 ( 10.0)	3.59E-09	1.55E-06
LAK9BRCB-ROO-LFO	5	2.00E-02 ( 8.5)	1.02E-07 ( 11.5)	1.70E-09	4.12E-07
LAK18BRB-ROO-LFO	5	2.00E-02 ( 8.5)	1.02E-07 ( 11.5)	1.70E-09	4.12E-07
LAK93BRC-ROO-LFO	5	2.00E-02 ( 8.5)	7.79E-08 ( 13.0)	8.12E-10	3.06E-07
DGCOOL-BETA	2	1.10E-01 ( 6.0)	5.01E-08 ( 14.0)	4.47E-10	1.64E-07
LAK14BRC-RCO-LFO	1	2.00E-02 ( 8.5)	8.62E-09 ( 15.0)	5.98E-11	2.98E-08
NOFLOW-SPC-B5X	1	1.00E+00 ( 3.0)	0.00E+00 ( 18.0)		
FLOW-RHP-R3	5	1.00E+00 ( 3.0)	0.00E+00 ( 18.0)		
NOFLOW-CSS-B7A	1	1.00E+00 ( 3.0)	0.00E+00 ( 18.0)		
RCICRMCOOL-FLAG	17	1.00E+00 ( 3.0)	0.00E+00 ( 18.0)		
RA-NONE	1	1.00E+00 ( 3.0)	0.00E+00 ( 18.0)		

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SEQUENCE T73  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
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BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
DGCOOL-PMS-CM	2	2.50E-03 ( 13.0)	32.0	( 2.0)	4.80	1.11
SWVY02CC-FMS-CC	3	2.50E-03 ( 13.0)	32.0	( 2.0)	4.80	1.11
CSCC002-PMS-CC	3	2.50E-03 ( 13.0)	32.0	( 2.0)	4.80	1.11
OPFAIL-VENT-6H	1	2.10E-03 ( 16.5)	14.5	( 4.5)	2.26	1.17
RA-1-1-27H	10	2.10E-03 ( 16.5)	14.5	( 4.5)	2.26	1.17
LAK14BRC-ROO-LFO	1	2.00E-02 ( 8.5)	14.3	( 7.5)	2.47	1.31
LAK93BRC-ROO-LFO	5	2.00E-02 ( 8.5)	14.3	( 7.5)	2.47	1.31
LAK186RB-ROO-LFO	5	2.00E-02 ( 8.5)	14.3	( 7.5)	2.47	1.31
LAK98RCB-ROO-LFO	5	2.00E-02 ( 8.5)	14.3	( 7.5)	2.47	1.31
RA-3-12-2H	1	2.40E-03 ( 15.0)	6.0	( 10.0)	1.91	1.18
CSCC002-P-UJM	3	3.00E-03 ( 11.0)	3.9	( 11.0)	1.37	1.01
DGCOOL-BETA	2	1.10E-01 ( 6.0)	3.5	( 12.0)	1.36	1.23
RA-2-11-27H	6	1.60E-03 ( 18.0)	1.2	( 13.0)	1.37	1.01
SWVY02AX-ACX-LFI	3	8.40E-04 ( 20.0)	1.1	( 14.0)	1.14	1.01
CSCC002-PMS-LF	4	1.10E-03 ( 19.0)	0.7	( 15.0)	1.14	1.02
NOFLOW-SPC-B5X	1	1.00E+00 ( 3.0)				
FLOW-RHR-B3	5	1.00E+00 ( 3.0)				
NOFLOW-CSS-B7A	1	1.00E+00 ( 3.0)				
RCICRMCool-FLAG	17	1.00E+00 ( 3.0)				
RA-NONE	1	1.00E+00 ( 3.0)				

SEQUENCE 173

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT DPDSA2-T-SEQ5A WITH TOP EVENT FREQUENCY 1.21E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	5	3.30E-09	0.27208	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	IE-T101	*	RA-3-12-2H	*
3					RCICRMCOOL-FLAG	+						
4	2	5	2.89E-09	0.51015	DGCOOL-BETA	*	DGCOOL-PMS-CM	*	IE-T9A	*	OPFAIL-VENT-6H	*
5					RA-NONE	+						
6	4	5	6.30E-10	0.56210	CSCC002-P-UUM	*	IE-T101	*	LAK18BRB-ROO-LFO	*	RA-1-1-27H	*
7					RCICRMCOOL-FLAG	+						
8	3	5	6.30E-10	0.61404	CSCC002-P-UUM	*	IE-T101	*	LAK9BRCB-ROO-LFO	*	RA-1-1-27H	*
9					RCICRMCOOL-FLAG	+						
10	6	5	5.25E-10	0.65733	CSCC002-PMS-CC	*	IE-T101	*	LAK18BRB-ROO-LFO	*	RA-1-1-27H	*
11					RCICRMCOOL-FLAG	+						
12	5	5	5.25E-10	0.70061	CSCC002-PMS-CC	*	IE-T101	*	LAK9BRCB-ROO-LFO	*	RA-1-1-27H	*
13					RCICRMCOOL-FLAG	+						
14	7	5	5.25E-10	0.74390	IE-T101	*	LAK18BRB-ROO-LFO	*	RA-1-1-27H	*	RCICRMCOOL-FLAG	*
15					SWVY02CC-FMS-CC	+						
16	8	5	5.25E-10	0.78718	IE-T101	*	LAK9BRCB-ROO-LFO	*	RA-1-1-27H	*	RCICRMCOOL-FLAG	*
17					SWVY02CC-FMS-CC	+						
18	9	6	4.80E-10	0.82676	CSCC002-P-UUM	*	FLOW-RHR-B3	*	IE-T101	*	LAK93BRC-ROO-LFO	*
19					RA-2-11-27H	*	RCICRMCOOL-FLAG	+				
20	10	6	4.00E-10	0.85974	CSCC002-PMS-CC	*	FLOW-RHR-B3	*	IE-T101	*	LAK93BRC-ROO-LFO	*
21					RA-2-11-27H	*	RCICRMCOOL-FLAG	+				
22	11	6	4.00E-10	0.89272	FLOW-RHR-B3	*	IE-T101	*	LAK93BRC-ROO-LFO	*	RA-2-11-27H	*
23					RCICRMCOOL-FLAG	*	SWVY02CC-FMS-CC	+				
24	13	5	2.31E-10	0.91176	CSCC002-PMS-LF	*	IE-T101	*	LAK18BRB-ROO-LFO	*	RA-1-1-27H	*
25					RCICRMCOOL-FLAG	+						
26	12	5	2.31E-10	0.93081	CSCC002-PMS-LF	*	IE-T101	*	LAK9BRCB-ROO-LFO	*	RA-1-1-27H	*
27					RCICRMCOOL-FLAG	+						
28	15	5	1.76E-10	0.94535	IE-T101	*	LAK18BRB-ROO-LFO	*	RA-1-1-27H	*	RCICRMCOOL-FLAG	*
29					SWVY02AX-ACX-LF1	+						
30	14	5	1.76E-10	0.95990	IE-T101	*	LAK9BRCB-ROO-LFO	*	RA-1-1-27H	*	RCICRMCOOL-FLAG	*
31					SWVY02AX-ACX-LF1	+						
32	17	7	1.76E-10	0.97441	CSCC002-PMS-LF	*	IE-T101	*	LAK14BRC-ROO-LFO	*	NOFLOW-CSS-B7A	*
33					NOFLOW-SPC-B5X	*	RA-2-11-27H	*	RCICRMCOOL-FLAG	+		
34	16	6	1.76E-10	0.98892	CSCC002-PMS-LF	*	FLOW-RHR-B3	*	IE-T101	*	LAK93BRC-ROO-LFO	*
35					RA-2-11-27H	*	RCICRMCOOL-FLAG	+				
36	18	6	1.34E-10	1.00000	FLOW-RHR-B3	*	IE-T101	*	LAK93BRC-ROO-LFO	*	RA-2-11-27H	*
37					RCICRMCOOL-FLAG	*	SWVY02AX-ACX-LF1	+				

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TEMAC RUN TIME IN CPU SECONDS 19.04

SEQUENCE 182

TOP EVENT CP9582-T-SEQ68 CONTAINS 40 EVENTS IN 129 CUT SETS

THE FREQUENCY OF TOP EVENT CP9582-T-SEQ68 IS 5.80E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CP9582-T-SEQ68

N	300
MEAN	4.95E-08
STD DEV	7.51E-07
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.83E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF



SEQUENCE 182

RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
CONT-LEAK	129	7.50E-01 ( 8.0)	5.80E-09 ( 1.5)	0.00E+00	1.83E-08
SUR-001-L	129	1.90E-01 ( 13.0)	5.80E-09 ( 1.5)	0.00E+00	1.83E-08
RCICRMCOOL-FLAG	105	1.00E+00 ( 4.0)	5.79E-09 ( 3.0)	0.00E+00	1.83E-08
RA-1-3-27H	67	2.60E-03 ( 22.0)	3.21E-09 ( 4.0)	0.00E+00	9.68E-09
HACTK9-ROO-LFO	37	2.00E-02 ( 16.5)	2.77E-09 ( 5.0)	0.00E+00	8.06E-09
HACTK3-ROO-LFO	36	2.00E-02 ( 16.5)	2.77E-09 ( 6.0)	0.00E+00	8.05E-09
RA-1-1-27H	56	2.10E-03 ( 23.5)	2.56E-09 ( 7.0)	0.00E+00	6.93E-09
EE-MDC-IAS-CB-R	55	3.30E-01 ( 11.5)	2.20E-09 ( 8.0)		
EE-MDC-IAS-AB-R	54	3.30E-01 ( 11.5)	2.20E-09 ( 9.0)		
FLOW-RHR-B3	32	1.00E+00 ( 4.0)	1.59E-09 ( 10.0)		
LAK93BRC-ROO-LFO	28	2.00E-02 ( 16.5)	1.56E-09 ( 11.0)	0.00E+00	4.89E-09
OPFALLSCDS-OE-8M	14	3.40E-01 ( 10.0)	1.38E-09 ( 12.0)	0.00E+00	3.03E-09
LAK18BRB-ROO-LFO	28	2.00E-02 ( 16.5)	1.28E-09 ( 13.5)	0.00E+00	3.46E-09
LAK9BRCB-ROO-LFO	28	2.00E-02 ( 16.5)	1.28E-09 ( 13.5)	0.00E+00	3.46E-09
LAK14BRC-ROO-LFO	8	2.00E-02 ( 16.5)	1.00E-09 ( 16.0)	0.00E+00	3.02E-09
NOFLOW-SPC-B5X	8	1.00E+00 ( 4.0)	1.00E-09 ( 16.0)		
NOFLOW-CSS-B7A	8	1.00E+00 ( 4.0)	1.00E-09 ( 16.0)		
RHR01BX-HTX-LFB	8	6.20E-03 ( 20.0)	3.11E-10 ( 18.0)	0.00E+00	4.73E-10
RHR02BB-P-UJM	4	3.00E-03 ( 21.0)	1.47E-10 ( 19.5)	0.00E+00	2.08E-10
SCSF0688-BENER	4	1.00E+00 ( 4.0)	1.47E-10 ( 19.5)		
CSC0300B-PLG-LF	6	1.20E-03 ( 26.0)	8.89E-11 ( 21.0)	0.00E+00	1.51E-10
HACTCF2-FUS-LF	19	5.40E-04 ( 29.5)	6.97E-11 ( 22.5)	0.00E+00	1.17E-10
HACTCF1-FUS-LF	19	5.40E-04 ( 29.5)	6.97E-11 ( 22.5)	0.00E+00	1.17E-10
HCS001C-PMS-LF	6	1.10E-03 ( 27.5)	6.00E-11 ( 24.0)	0.00E+00	1.73E-10
RHR02BB-PMS-LF	4	1.10E-03 ( 27.5)	5.38E-11 ( 25.0)	0.00E+00	8.58E-11
RA-2-11-27H	6	1.60E-03 ( 25.0)	3.16E-11 ( 26.0)	0.00E+00	5.45E-11
HCSF015C-VCC-LF	6	5.00E-04 ( 33.0)	2.73E-11 ( 28.0)	0.00E+00	4.74E-11
HCSF004C-VCC-LF	6	5.00E-04 ( 33.0)	2.73E-11 ( 28.0)	0.00E+00	4.74E-11
EE-CST-LVL	6	1.00E+00 ( 4.0)	2.73E-11 ( 28.0)		
RHR01BB-ROO-LF	4	5.00E-04 ( 33.0)	2.45E-11 ( 31.0)	0.00E+00	1.99E-11
CSCF0688-VCC-LF	4	5.00E-04 ( 33.0)	2.45E-11 ( 31.0)	0.00E+00	2.08E-11
RHRF488B-VCO-LF	4	5.00E-04 ( 33.0)	2.45E-11 ( 31.0)	0.00E+00	2.08E-11
1E8235A-BCO-LF	6	7.20E-05 ( 37.0)	1.67E-11 ( 33.5)	0.00E+00	4.58E-11
TSC050PERCENT	6	5.00E-01 ( 9.0)	1.67E-11 ( 33.5)		
OPFALL-VENT-6H	24	2.10E-03 ( 23.5)	5.52E-12 ( 35.0)	0.00E+00	1.99E-11
RHR301BX-STR	3	1.10E-04 ( 36.0)	4.03E-12 ( 36.5)	0.00E+00	5.34E-12
NOFLOW-RHR-B1	3	1.00E+00 ( 4.0)	4.03E-12 ( 36.5)		

SEQUENCE 182

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RA-1-3-27H	67	2.60E-03 ( 22.0)	1.23E-06 ( 1.0)	0.00E+00	7.52E-06
RA-1-1-27H	56	2.10E-03 ( 23.5)	1.21E-06 ( 2.0)	0.00E+00	6.61E-06
1E8235A-8CO-LF	6	7.20E-05 ( 37.0)	2.33E-07 ( 3.0)	0.00E+00	7.15E-07
HACTK9-ROO-LFO	37	2.00E-02 ( 16.5)	1.36E-07 ( 4.0)	0.00E+00	5.17E-07
HACTK3-ROO-LFO	36	2.00E-02 ( 16.5)	1.36E-07 ( 5.0)	0.00E+00	5.16E-07
HACTCP2-FUS-LF	19	5.40E-04 ( 29.5)	1.29E-07 ( 6.5)	0.00E+00	5.17E-07
HALTCP1-FUS-LF	19	5.40E-04 ( 29.5)	1.29E-07 ( 6.5)	0.00E+00	5.17E-07
LAK938C-ROO-LFO	28	2.00E-02 ( 16.5)	7.65E-08 ( 8.0)	0.00E+00	2.09E-07
CSCD300B-PLG-LF	6	1.20E-03 ( 26.0)	7.40E-08 ( 9.0)	0.00E+00	1.77E-07
LAK1888B-ROO-LFO	28	2.00E-02 ( 16.5)	6.26E-08 ( 10.5)	0.00E+00	2.76E-07
LAK988C-ROO-LFO	28	2.00E-02 ( 16.5)	6.26E-08 ( 10.5)	0.00E+00	2.76E-07
HCSF004C-VCC-LF	6	5.00E-04 ( 33.0)	5.45E-08 ( 12.5)	0.00E+00	2.07E-07
HCSF015C-VCC-LF	6	5.00E-04 ( 33.0)	5.45E-08 ( 12.5)	0.00E+00	2.07E-07
HCS0017C-PMS-LF	6	1.10E-03 ( 27.5)	5.45E-08 ( 14.0)	0.00E+00	2.07E-07
RHR018X-H1X-LFB	8	6.20E-03 ( 20.0)	4.99E-08 ( 15.0)	0.00E+00	1.23E-07
LAK1488C-RCO-LFO	8	2.00E-02 ( 16.5)	4.92E-08 ( 16.0)	0.00E+00	1.20E-07
RHR018B-BOO-LF	4	5.00E-04 ( 33.0)	4.89E-08 ( 18.0)	0.00E+00	1.02E-07
CSCF0688B-VCC-LF	4	5.00E-04 ( 33.0)	4.89E-08 ( 18.0)	0.00E+00	1.02E-07
RHRF488B-V00-LF	4	5.00E-04 ( 33.0)	4.89E-08 ( 18.0)	0.00E+00	1.02E-07
RHR0288B-PMS-LF	4	1.10E-03 ( 27.5)	4.89E-08 ( 20.0)	0.00E+00	1.02E-07
RHR0288B-P-UJM	4	3.00E-03 ( 21.0)	4.89E-08 ( 21.0)	0.00E+00	1.02E-07
RHR3018X-STR	3	1.10E-04 ( 36.0)	3.67E-08 ( 22.0)	0.00E+00	7.64E-08
SUR-001-L	129	1.90E-01 ( 13.0)	2.47E-08 ( 23.0)	0.00E+00	1.13E-07
RA-2-11-27H	6	1.60E-03 ( 25.0)	1.97E-08 ( 24.0)	0.00E+00	7.42E-08
EE-MDC-IAS-CB-R	55	3.30E-01 ( 11.5)	4.47E-09 ( 25.0)		
EE-MDC-IAS-AB-R	54	3.30E-01 ( 11.5)	4.47E-09 ( 26.0)		
OPFALLSCDS-OE-8M	14	3.40E-01 ( 10.0)	2.69E-09 ( 27.0)	0.00E+00	8.57E-09
OPFALL-VENT-6H	24	2.10E-03 ( 23.5)	2.62E-09 ( 28.0)	0.00E+00	7.38E-09
COMT-LEAK	129	7.50E-01 ( 8.0)	1.93E-09 ( 29.0)	0.00E+00	0.00E+00
TSCDS50PERCENT	6	5.00E-01 ( 9.0)	1.67E-11 ( 30.0)		
RC1CRMCOOL-FLAG	105	1.00E+00 ( 4.0)	0.00E+00 ( 34.0)		
NOFLOW-SPC-85X	8	1.00E+00 ( 4.0)	0.00E+00 ( 34.0)		
NOFLOW-RHR-81	3	1.00E+00 ( 4.0)	0.00E+00 ( 34.0)		
NOFLOW-CSS-87A	8	1.00E+00 ( 4.0)	0.00E+00 ( 34.0)		
EE-CST-LVL	6	1.00E+00 ( 4.0)	0.00E+00 ( 34.0)		
SCSF0688B-DENER	4	1.00E+00 ( 4.0)	0.00E+00 ( 34.0)		
FLOW-RHR-83	32	1.00E+00 ( 4.0)	0.00E+00 ( 34.0)		

SEQUENCE TB2  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN		Y.05/TE.05*	Y.95/TE.95*
				THE UNCERTAINTY	OF LOG RISK		
SUR-001-L	129	1.90E-01	( 13.0)	58.7	( 1.0)	NA	1.93
LAK9BRCB-ROO-LFO	28	2.00E-02	( 16.5)	14.7	( 4.5)	NA	1.62
HACTK3-ROO-LFO	36	2.00E-02	( 16.5)	14.7	( 4.5)	NA	1.62
LAK93BRC-ROO-LFO	28	2.00E-02	( 16.5)	14.7	( 4.5)	NA	1.62
LAK14BRC-ROO-LFO	8	2.00E-02	( 16.5)	14.7	( 4.5)	NA	1.62
HACTK9-ROO-LFO	37	2.00E-02	( 16.5)	14.7	( 4.5)	NA	1.62
LAK18BRB-ROO-LFO	28	2.00E-02	( 16.5)	14.7	( 4.5)	NA	1.62
CONT-LEAK	129	7.50E-01	( 8.0)	4.6	( 8.0)	NA	0.75
RHRHG1BK-K' Fb	8	6.20E-03	( 20.0)	4.6	( 9.0)	NA	0.93
HACTCPF2-FUS-LF	19	5.40E-04	( 29.5)	4.3	( 10.5)	NA	1.01
HACTCPF1-FUS-LF	19	5.40E-04	( 29.5)	4.3	( 10.5)	NA	1.01
RA-1-3-27H	67	2.60E-03	( 22.0)	1.0	( 12.0)	NA	1.52
CSCD300B-PLG-LF	6	1.20E-03	( 26.0)	0.9	( 13.0)	NA	1.01
RA-1-1-27H	56	2.10E-03	( 23.5)	0.8	( 14.5)	NA	1.48
OPFAIL-VENT-6H	24	2.10E-03	( 23.5)	0.8	( 14.5)	NA	1.48
HCSF015C-VCC-LF	6	5.00E-04	( 33.0)	0.0	( 21.5)		
RHRC02BB-P-UJM	4	3.00E-03	( 21.0)	0.0	( 21.5)		
RHRB01BB-BOO-LF	4	5.00E-04	( 33.0)	0.0	( 21.5)		
HCSC001C-PMS-LF	6	1.10E-03	( 27.5)	0.0	( 21.5)		
OPFAILSCDS-OE-8M	14	3.40E-01	( 10.0)	0.0	( 21.5)		
RHR301BK-STR	3	1.10E-04	( 36.0)	0.0	( 21.5)		
TEB235A-BCO-LF	6	7.20E-05	( 37.0)	0.0	( 21.5)		
CSCF068B-VCC-LF	4	5.00E-04	( 33.0)	0.0	( 21.5)		
RHRF48BB-VOO-LF	4	5.00E-04	( 33.0)	0.0	( 21.5)		
RHRC02BB-PMS-LF	4	1.10E-03	( 27.5)	0.0	( 21.5)		
RA-2-11-27H	6	1.60E-03	( 25.0)	0.0	( 21.5)		
HCSF004C-VCC-LF	6	5.00E-04	( 33.0)	0.0	( 21.5)		
RC1CRMCOOL-FLAG	105	1.00E+00	( 4.0)				
EE-MDC-IAS-CB-R	55	3.30E-01	( 11.5)				
EE-MDC-IAS-AB-R	54	3.30E-01	( 11.5)				
NOFLOW-SPC-B5X	8	1.00E+00	( 4.0)				
NOFLOW-RHR-B1	3	1.00E+00	( 4.0)				
NOFLOW-CSS-B7A	8	1.00E+00	( 4.0)				
EE-CST-LVL	6	1.00E+00	( 4.0)				
TSCDSSOPERCENT	6	5.00E-01	( 9.0)				
SCSF068B-DENER	4	1.00E+00	( 4.0)				
FLOW-RHR-B3	32	1.00E+00	( 4.0)				

SEQUENCE 182

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-T-SE06B WITH TOP EVENT FREQUENCY 5.80E-09

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	2	9	2.52E-10	0.04344	CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T101	*
3					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
4					SUR-001-L	+			
5	1	9	2.52E-10	0.08687	CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101	*
6					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
7					SUR-001-L	+			
8	3	10	2.45E-10	0.12903	CONT-LEAK	* EE-MDC-1AS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
9					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
10					RCICRMCOOL-FLAG	* SUR-001-L	+		
11	9	9	2.45E-10	0.17119	CONT-LEAK	* EE-MDC-1AS-CB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
12					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
13					SUR-001-L	+			
14	10	10	2.45E-10	0.21335	CONT-LEAK	* EE-MDC-1AS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
15					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
16					RCICRMCOOL-FLAG	* SUR-001-L	+		
17	8	10	2.45E-10	0.25551	CONT-LEAK	* EE-MDC-1AS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
18					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
19					RCICRMCOOL-FLAG	* SUR-001-L	+		
20	7	9	2.45E-10	0.29767	CONT-LEAK	* EE-MDC-1AS-AB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
21					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
22					SUR-001-L	+			
23	6	10	2.45E-10	0.33982	CONT-LEAK	* EE-MDC-1AS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
24					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
25					RCICRMCOOL-FLAG	* SUR-001-L	+		
26	5	9	2.45E-10	0.38198	CONT-LEAK	* EE-MDC-1AS-CB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
27					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
28					SUR-001-L	+			
29	4	9	2.45E-10	0.42414	CONT-LEAK	* EE-MDC-1AS-AB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
30					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
31					SUR-001-L	+			
32	13	8	2.03E-10	0.45923	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK9BRCB-ROO-LFO	*
33					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
34	14	8	2.03E-10	0.49431	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK9BRCB-ROO-LFO	*
35					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
36	11	8	2.03E-10	0.52939	CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK18BRB-ROO-LFO	*
37					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
38	12	8	2.03E-10	0.56447	CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK18BRB-ROO-LFO	*
39					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
40	15	8	1.98E-10	0.59853	CONT-LEAK	* EE-MDC-1AS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
41					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
42	16	8	1.98E-10	0.63258	CONT-LEAK	* EE-MDC-1AS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
43					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
44	22	8	1.98E-10	0.66663	CONT-LEAK	* EE-MDC-1AS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
45					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+

46	20	8	1.98E-10	0.70068	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
47					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
48	19	8	1.98E-10	0.73473	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
49					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
50	21	8	1.58E-10	0.76878	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
51					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
52	18	8	1.98E-10	0.80283	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
53					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
54	17	8	1.98E-10	0.83688	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
55					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
56	26	8	7.58E-11	0.84995	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
57					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+
58	24	8	7.58E-11	0.86302	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
59					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+
60	25	8	7.58E-11	0.87609	CON LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
61					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+
62	23	8	7.58E-11	0.88916	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
63					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+
64	28	9	3.67E-11	0.89548	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
65					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF06BB-DENER	*
66					SUR-001-L	+			
67	30	9	3.67E-11	0.90181	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
68					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF06BB-DENER	*
69					SUR-001-L	+			
70	27	9	3.67E-11	0.90813	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
71					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF06BB-DENER	*
72					SUR-001-L	+			
73	29	9	3.67E-11	0.91446	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
74					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF06BB-DENER	*
75					SUR-001-L	+			
76	31	8	1.51E-11	0.91706	CONT-LEAK	* CSCD300B-PLG-LF	* HACTK3-ROO-LFO	* IE-T101	*
77					OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
78	32	8	1.51E-11	0.91967	CONT-LEAK	* CSCD300B-PLG-LF	* HACTK9-ROO-LFO	* IE-T101	*
79					OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
80	36	8	1.47E-11	0.92220	CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	*
81					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
82	35	8	1.47E-11	0.92473	CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	*
83					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
84	34	8	1.47E-11	0.92726	CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	*
85					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
86	33	8	1.47E-11	0.92979	CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	*
87					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
88	40	8	1.34E-11	0.93211	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
89					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-001-L	+
90	39	8	1.34E-11	0.93442	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
91					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-001-L	+
92	38	8	1.34E-11	0.93674	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
93					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-001-L	+
94	37	8	1.34E-11	0.93906	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
95					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-001-L	+
96	44	8	1.09E-11	0.94093	CONT-LEAK	* EE-MDC-IAS-CB-R	* HCSC001C-PMS-LF	* IE-T101	*
97					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+

98	43	B	1.09E-11	0.94281	CONT-LEAK	* EE-MDC-IAS-AB-R	* HCSC001C-PMS-LF	* IE-T101	*
99					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	*
100	42	B	1.09E-11	0.94468	CONT-LEAK	* EE-MDC-IAS-AB-R	* HCSC001C-PMS-LF	* IE-T101	*
101					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	*
102	41	B	1.09E-11	0.94655	CONT-LEAK	* EE-MDC-IAS-CB-R	* HCSC001C-PMS-LF	* IE-T101	*
103					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	*
104	46	9	8.28E-12	0.94798	CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HCSC001C-PMS-LF	*
105					IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* RCICRMCOOL-FLAG	*
106					SUR-001-L	+			
107	45	9	8.28E-12	0.94941	CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HCSC001C-PMS-LF	*
108					IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* RCICRMCOOL-FLAG	*
109					SUR-001-L	+			
110	48	9	6.80E-12	0.95058	CONT-LEAK	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	* IE-T101	*
111					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
112					SUR-001-L	+			
113	47	9	6.80E-12	0.95175	CONT-LEAK	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	* IE-T101	*
114					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
115					SUR-001-L	+			
116	56	9	6.60E-12	0.95289	CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	*
117					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
118					SUR-001-L	+			
119	54	9	6.60E-12	0.95403	CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	*
120					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
121					SUR-001-L	+			
122	53	9	6.60E-12	0.95517	CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	*
123					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
124					SUR-001-L	+			
125	52	10	6.60E-12	0.95631	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF2-FUS-LF	* IE-T101	*
126					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
127					RCICRMCOOL-FLAG	* SUR-001-L	+		
128	51	10	6.60E-12	0.95744	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF1-FUS-LF	* IE-T101	*
129					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
130					RCICRMCOOL-FLAG	* SUR-001-L	+		
131	55	9	6.60E-12	0.95858	CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	*
132					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
133					SUR-001-L	+			
134	50	10	6.60E-12	0.95972	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF1-FUS-LF	* IE-T101	*
135					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
136					RCICRMCOOL-FLAG	* SUR-001-L	+		
137	49	10	6.60E-12	0.96086	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF2-FUS-LF	* IE-T101	*
138					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
139					RCICRMCOOL-FLAG	* SUR-001-L	+		
140	62	8	6.11E-12	0.96191	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
141					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRB01BB-BOO-LF	* SUR-001-L	+
142	61	8	6.11E-12	0.96297	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
143					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRB01BB-BOO-LF	* SUR-001-L	+
144	60	9	6.11E-12	0.96402	CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
145					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF48BB-VOO-LF	*
146					SUR-001-L	+			
147	59	9	6.11E-12	0.96507	CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
148					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF48BB-VOO-LF	*
149					SUR-001-L	+			

150	57	9	6.11E-12	0.96613	CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
151					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF488B-V00-LF	*
152					SUR-001-L	+			
153	63	9	6.11E-12	0.96718	CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
154					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF488B-V00-LF	*
155					SUR-001-L	+			
156	58	8	6.11E-12	0.96824	CONT-LEAK	* EF-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
157					PA-1-3-27H	* RCICRMCOOL-FLAG	* RHRB01BB-B00-LF	* SUR-001-L	+
158	68	8	6.11E-12	0.96929	CONT-LEAK	* CSCF068B-VCC-LF	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	*
159					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
160	67	8	6.11E-12	0.97034	CONT-LEAK	* CSCF068B-VCC-LF	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	*
161					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
162	66	8	6.11E-12	0.97140	CONT-LEAK	* CSCF068B-VCC-LF	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	*
163					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
164	65	8	6.11E-12	0.97245	CONT-LEAK	* CSCF068B-VCC-LF	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	*
165					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
166	64	8	6.11E-12	0.97351	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
167					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRB01BB-B00-LF	* SUR-001-L	+
168	72	8	5.49E-12	0.97445	CONT-LEAK	* HACTCP1-FUS-LF	* IE-T101	* LAK9BCB-ROO-LFO	*
169					OPFAILSCDS-OE-BM	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
170	71	8	5.49E-12	0.97540	CONT-LEAK	* HACTCPF2-FUS-LF	* IE-T101	* LAK9BCB-ROO-LFO	*
171					OPFAILSCDS-OE-BM	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
172	70	8	5.49E-12	0.97635	CONT-LEAK	* HACTCPF2-FUS-LF	* IE-T101	* LAK18BRB-ROO-LFO	*
173					OPFAILSCDS-OE-BM	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
174	69	8	5.49E-12	0.97730	CONT-LEAK	* HACTCPF1-FUS-LF	* IE-T101	* LAK18BRB-ROO-LFO	*
175					OPFAILSCDS-OE-BM	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
176	80	8	5.33E-12	0.97821	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF1-FUS-LF	* IE-T101	*
177					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
178	79	8	5.33E-12	0.97913	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF2-FUS-LF	* IE-T101	*
179					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
180	78	8	5.33E-12	0.98005	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF1-FUS-LF	* IE-T101	*
181					LAK9BCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
182	77	8	5.33E-12	0.98097	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF2-FUS-LF	* IE-T101	*
183					LAK9BCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
184	76	8	5.33E-12	0.98189	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF1-FUS-LF	* IE-T101	*
185					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
186	75	8	5.33E-12	0.98281	CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF2-FUS-LF	* IE-T101	*
187					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
188	74	8	5.33E-12	0.98373	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF1-FUS-LF	* IE-T101	*
189					LAK9BCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
190	73	8	5.33E-12	0.98465	CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF2-FUS-LF	* IE-T101	*
191					LAK9BCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
192	88	8	4.94E-12	0.98550	CONT-LEAK	* EE-MDC-IAS-CB-R	* HCSF004C-VCC-LF	* IE-T101	*
193					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
194	87	8	4.94E-12	0.98635	CONT-LEAK	* EE-MDC-IAS-AB-R	* HCSF004C-VCC-LF	* IE-T101	*
195					LAK9BCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
196	86	8	4.94E-12	0.98720	CONT-LEAK	* EE-MDC-IAS-AB-R	* HCSF004C-VCC-LF	* IE-T101	*
197					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-001-L	+
198	85	9	4.94E-12	0.98806	CONT-LEAK	* EE-CST-LVL	* EE-MDC-IAS-CB-R	* HCSF015C-VCC-LF	*
199					IE-T101	* LAK9BCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	*
200					SUR-001-L	+			

201	84	9	4.94E-12	0.98891	CONT-LEAK	* EE-CST-LVL	* EE-MDC-1AS-CB-R	* HCSF015C-VCC-LF	*
202					IE-T101	* LAK188RB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	*
203					SUR-001-L	+			
204	83	9	4.94E-12	0.98976	CONT-LEAK	* EE-CST-LVL	* EE-MDC-1AS-AB-R	* HCSF015C-VCC-LF	*
205					IE-T101	* LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	*
206					SUR-001-L	+			
207	82	9	4.94E-12	0.99061	CONT-LEAK	* EE-CST-LVL	* EE-MDC-1AS-AB-R	* HCSF015C-VCC-LF	*
208					IE-T101	* LAK188RB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	*
209					SUR-001-L	+			
210	81	8	4.94E-12	0.99146	CONT-LEAK	* EE-MDC-1AS-CB-R	* HCSF004C-VCC-LF	* IE-T101	*
211					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	* SUR-001-L	+
212	92	10	3.76E-12	0.99211	CONT-LEAK	* EE-CST-LVL	* EE-MDC-1AS-AB-R	* FLOW-RHR-B3	*
213					HCSF015C-VCC-LF	* IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	*
214					RC1CRMCOOL-FLAG	* SUR-001-L	+		
215	91	9	3.76E-12	0.99276	CONT-LEAK	* EE-MDC-1AS-CB-R	* FLOW-RHR-B3	* HCSF004C-VCC-LF	*
216					IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* RC1CRMCOOL-FLAG	*
217					SUR-001-L	+			
218	90	9	3.76E-12	0.99341	CONT-LEAK	* EE-MDC-1AS-AB-R	* FLOW-RHR-B3	* HCSF004C-VCC-LF	*
219					IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* RC1CRMCOOL-FLAG	*
220					SUR-001-L	+			
221	89	10	3.76E-12	0.99406	CONT-LEAK	* EE-CST-LVL	* EE-MDC-1AS-CB-R	* FLOW-RHR-B3	*
222					HCSF015C-VCC-LF	* IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	*
223					RC1CRMCOOL-FLAG	* SUR-001-L	+		
224	94	10	3.20E-12	0.99461	1EB235A-BCO-LF	* CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
225					IE-T5	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RC1CRMCOOL-FLAG	*
226					SUR-001-L	* T5CD550PERCENT	+		
227	93	10	3.20E-2	0.99516	1EB235A-BCO-LF	* CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
228					IE-T5	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RC1CRMCOOL-FLAG	*
229					SUR-001-L	* T5CD550PERCENT	+		
230	98	9	2.59E-12	0.99560	1EB235A-BCO-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T5	*
231					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	* SUR-001-L	*
232					T5CD550PERCENT	+			
233	97	9	2.59E-12	0.99605	1EB235A-BCO-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T5	*
234					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	* SUR-001-L	*
235					T5CD550PERCENT	+			
236	96	9	2.59E-12	0.99650	1EB235A-BCO-LF	* CONT-LEAK	* HACTK9-ROO-LFO	* IE-T5	*
237					LAK188RB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	* SUR-001-L	*
238					T5CD550PERCENT	+			
239	95	9	2.59E-12	0.99694	1EB235A-BCO-LF	* CONT-LEAK	* HACTK3-ROO-LFO	* IE-T5	*
240					LAK188RB-ROO-LFO	* RA-1-1-27H	* RC1CRMCOOL-FLAG	* SUR-001-L	*
241					T5CD550PERCENT	+			
242	102	8	2.05E-12	0.99730	CONT-LEAK	* EE-MDC-1AS-CB-R	* HACTCPF1-FUS-LF	* IE-T101	*
243					RA-1-3-27H	* RC1CRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+
244	101	8	2.05E-12	0.99765	CONT-LEAK	* EE-MDC-1AS-AB-R	* HACTCPF1-FUS-LF	* IE-T101	*
245					RA-1-3-27H	* RC1CRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+
246	100	8	2.05E-12	0.99800	CONT-LEAK	* EE-MDC-1AS-CB-R	* HACTCPF2-FUS-LF	* IE-T101	*
247					RA-1-3-27H	* RC1CRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+
248	99	8	2.05E-12	0.99835	CONT-LEAK	* EE-MDC-1AS-AB-R	* HACTCPF2-FUS-LF	* IE-T101	*
249					RA-1-3-27H	* RC1CRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-001-L	+



SEQUENCE T84

TOP EVENT CPDSB2-T-SEQ6B CONTAINS 40 EVENTS IN 129 CUT SETS

THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ6B IS 1.42E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB2-T-SEQ6B

N	300
MEAN	1.01E-09
STD DEV	9.63E-09
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	7.11E-10

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE T84  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
SUR-003-R	129	1.40E-02 ( 19.0)	1.42E-10 ( 1.0)	0.00E+00	7.11E-10
RCICRM00L-FLAG	105	1.00E+00 ( 4.0)	1.42E-10 ( 2.0)		
RA-1-3-27H	67	2.60E-03 ( 22.0)	7.89E-11 ( 3.0)	0.00E+00	2.77E-10
HACTK9-ROO-LFO	37	2.00E-02 ( 15.5)	6.81E-11 ( 4.0)	0.00E+00	3.38E-10
HACTK3-ROO-LFO	36	2.00E-02 ( 15.5)	6.81E-11 ( 5.0)	0.00E+00	3.38E-10
RA-1-1-27H	56	2.10E-03 ( 23.5)	6.28E-11 ( 6.0)	0.00E+00	3.79E-10
EE-MDC-1AS-CB-R	55	3.30E-01 ( 11.5)	5.40E-11 ( 7.0)		
EE-MDC-1AS-AB-R	54	3.30E-01 ( 11.5)	5.40E-11 ( 8.0)		
FLOW-RHR-83	32	1.00E+00 ( 4.0)	3.90E-11 ( 9.0)		
LAK23BRC-ROO-LFO	28	2.00E-02 ( 15.5)	3.84E-11 ( 10.0)	0.00E+00	1.64E-10
OPFAILSDS-OE-0M	14	3.40E-01 ( 10.0)	3.40E-11 ( 11.0)	0.00E+00	1.94E-10
LAK18BRR-ROO-LFO	28	2.00E-02 ( 15.5)	3.14E-11 ( 12.5)	0.00E+00	1.90E-10
LAK98RCB-ROO-LFO	28	2.00E-02 ( 15.5)	3.14E-11 ( 12.5)	0.00E+00	1.90E-10
NOFLOW-SPC-85X	8	1.00E+00 ( 4.0)	2.47E-11 ( 15.0)		
NOFLOW-CSS-87A	8	1.00E+00 ( 4.0)	2.47E-11 ( 15.0)	0.00E+00	8.42E-11
LAK14BRC-ROO-LFO	8	2.00E-02 ( 15.5)	2.47E-11 ( 15.0)	0.00E+00	1.56E-11
RHR018X-HTX-LFB	8	6.20E-03 ( 20.0)	7.65E-12 ( 17.0)	0.00E+00	1.41E-11
RHR02BB-P-UUM	4	3.60E-03 ( 21.0)	3.60E-12 ( 18.5)	0.00E+00	6.23E-12
SCSF06BB-DENER	4	1.00E+00 ( 4.0)	2.18E-12 ( 20.0)	0.00E+00	3.99E-12
CSC0302B-PLG-LF	6	1.20E-03 ( 26.0)	1.71E-12 ( 21.5)	0.00E+00	3.99E-12
HACTCP2-FUS-LF	19	5.40E-04 ( 29.5)	1.71E-12 ( 21.5)	0.00E+00	7.00E-12
HACTCP1-FUS-LF	19	5.40E-04 ( 29.5)	1.47E-12 ( 23.0)	0.00E+00	4.66E-12
HCSC001C-PWS-LF	6	1.10E-03 ( 27.5)	1.32E-12 ( 24.0)	0.00E+00	3.45E-12
RHR02BB-PWS-LF	4	1.10E-03 ( 27.5)	7.78E-13 ( 25.0)	0.00E+00	2.01E-12
RA-2-11-27H	6	1.60E-03 ( 25.0)	6.70E-13 ( 27.0)	0.00E+00	2.01E-12
HCSP015C-VCC-LF	6	5.00E-04 ( 33.0)	6.70E-13 ( 27.0)	0.00E+00	1.87E-12
HCSP004C-VCC-LF	6	5.00E-04 ( 33.0)	6.01E-13 ( 30.0)	0.00E+00	1.29E-12
EE-CST-LVL	4	5.00E-04 ( 33.0)	6.01E-13 ( 30.0)	0.00E+00	1.29E-12
RHR016B-800-LF	4	5.00E-04 ( 33.0)	6.01E-13 ( 30.0)	0.00E+00	1.29E-12
CSCF068B-VCC-LF	4	5.00E-04 ( 33.0)	6.01E-13 ( 30.0)	0.00E+00	1.29E-12
RHRF488B-V00-LF	4	5.00E-04 ( 33.0)	4.11E-13 ( 32.5)	0.00E+00	9.74E-13
TSC0550PERCENT	6	5.00E-01 ( 9.0)	4.11E-13 ( 32.5)	0.00E+00	8.03E-13
1EB235A-BCO-LF	6	7.20E-05 ( 37.0)	1.36E-13 ( 34.0)	0.00E+00	3.13E-13
OPFA'L-VENT-6H	24	2.10E-03 ( 23.5)	9.91E-14 ( 35.5)	0.00E+00	0.00E+00
RHR3018X-STR	3	1.10E-04 ( 36.0)	9.91E-14 ( 35.5)	0.00E+00	0.00E+00
NOFLOW-RHR-B1	3	1.00E+00 ( 4.0)	-4.27E-10 ( 37.0)	0.00E+00	0.00E+00
CONT-LEAK	129	7.50E-01 ( 8.0)			

SEQUENCE T84

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK INCREASE	(RANK)	LOWER 5%	UPPER 5%
RA-1-3-27H	67	2.60E-03	( 22.0)	3.03E-08	( 1.0)	0.00E+00	3.76E-07
RA-1-1-27H	56	2.10E-03	( 23.5)	2.98E-08	( 2.0)	0.00E+00	3.08E-07
SUR-003-R	129	1.40E-02	( 19.0)	1.00E-08	( 3.0)	0.00E+00	2.27E-08
1EB235A-BCO-LF	6	7.20E-05	( 37.0)	5.71E-09	( 4.0)	0.00E+00	3.40E-08
HACTK9-ROO-LFO	37	2.00E-02	( 15.5)	3.34E-09	( 5.0)	0.00E+00	2.44E-08
HACTK3-ROO-LFO	36	2.00E-02	( 15.5)	3.34E-09	( 6.0)	0.00E+00	2.44E-08
HACTCPFT-FUS-LF	19	5.40E-04	( 29.5)	3.17E-09	( 7.5)	0.00E+00	2.19E-08
HACTCPF2-FUS-LF	19	5.40E-04	( 29.5)	3.17E-09	( 7.5)	0.00E+00	2.19E-08
LAK93BRC-ROO-LFO	28	2.00E-02	( 15.5)	1.88E-09	( 9.0)	0.00E+00	1.11E-08
CSCD300B-PLG-LF	6	1.20E-03	( 26.0)	1.82E-09	( 10.0)	0.00E+00	9.05E-09
LAK188RB-ROO-LFO	28	2.00E-02	( 15.5)	1.54E-09	( 11.5)	0.00E+00	1.02E-08
LAK9BRCB-ROO-LFO	28	2.00E-02	( 15.5)	1.54E-09	( 11.5)	0.00E+00	1.02E-08
HCSF004C-VCC-LF	6	5.00E-04	( 33.0)	1.34E-09	( 13.5)	0.00E+00	9.65E-09
HCSF015C-VCC-LF	6	5.00E-04	( 33.0)	1.34E-09	( 13.5)	0.00E+00	9.65E-09
HCSC001C-PMS-LF	6	1.10E-03	( 27.5)	1.34E-09	( 15.0)	0.00E+00	9.65E-09
RHR#01BX-HTX-LFB	8	6.20E-03	( 20.0)	1.23E-09	( 16.0)	0.00E+00	5.88E-09
LAK14BRC-RCO-LFO	8	2.00E-02	( 15.5)	1.21E-09	( 17.0)	0.00E+00	5.80E-09
RHR#01BB-BOO-LF	4	5.00E-04	( 33.0)	1.20E-09	( 19.0)	0.00E+00	5.65E-09
CSCF068B-VCC-LF	4	5.00E-04	( 33.0)	1.20E-09	( 19.0)	0.00E+00	5.65E-09
RHRF488B-VDO-LF	4	5.00E-04	( 33.0)	1.20E-09	( 19.0)	0.00E+00	5.65E-09
RHR#02BB-PMS-LF	4	1.10E-03	( 27.5)	1.20E-09	( 21.0)	0.00E+00	5.64E-09
RHR#02BB-P-UBM	4	3.00E-03	( 21.0)	1.20E-09	( 22.0)	0.00E+00	5.64E-09
RHR301BX-STR	3	1.10E-04	( 36.0)	9.01E-10	( 23.0)	0.00E+00	4.24E-09
RA-2-11-27H	6	1.60E-03	( 25.0)	4.84E-10	( 24.0)	0.00E+00	4.33E-09
EE-MDC-IAS-CB-R	55	3.30E-01	( 11.5)	1.10E-10	( 25.0)		
EE-MDC-IAS-AB-R	54	3.30E-01	( 11.5)	1.10E-10	( 26.0)		
OPFAILSCDS-DE-8M	14	3.40E-01	( 10.0)	6.60E-11	( 27.0)	0.00E+00	3.21E-10
OPFAIL-VENT-6H	24	2.10E-03	( 23.5)	6.44E-11	( 28.0)	0.00E+00	3.05E-10
T5CDS50PERCENT	6	5.00E-01	( 9.0)	4.11E-13	( 29.0)		
RCICRMCOOL-FLAG	105	1.00E+00	( 4.0)	0.00E+00	( 33.0)		
NOFLOW-SPC-B5X	8	1.00E+00	( 4.0)	0.00E+00	( 33.0)		
NOFLOW-RHR-B1	3	1.00E+00	( 4.0)	0.00E+00	( 33.0)		
NOFLOW-CSS-B7A	8	1.00E+00	( 4.0)	0.00E+00	( 33.0)		
EE-CST-LVL	6	1.00E+00	( 4.0)	0.00E+00	( 33.0)		
SCSF068B-DEFNER	4	1.00E+00	( 4.0)	0.00E+00	( 33.0)		
RHR-83	32	1.00E+00	( 4.0)	0.00E+00	( 33.0)		
JMT-LEAK	129	7.50E-01	( 8.0)	-1.42E-10	( 37.0)	-7.11E-10	0.00E+00

SEQUENCE T84  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
LAK938RC-ROO-LFO	28	2.00E-02 ( 15.5)	17.5 ( 3.5)	NA	2.75
LAK188RB-ROO-LFO	28	2.00E-02 ( 15.5)	17.5 ( 3.5)	NA	2.75
LAK98RCB-ROO-LFO	28	2.00E-02 ( 15.5)	17.5 ( 3.5)	NA	2.75
LAK148RC-RCO-LFO	8	2.00E-02 ( 15.5)	17.5 ( 3.5)	NA	2.75
HACTK9-ROO-LFO	37	2.00E-02 ( 15.5)	17.5 ( 3.5)	NA	2.75
HACTK3-ROO-LFO	36	2.00E-02 ( 15.5)	17.5 ( 3.5)	NA	2.75
RA-1-3-27H	67	2.60E-03 ( 22.0)	3.0 ( 7.0)	NA	1.80
CSCD300B-PLG-LF	6	1.20E-03 ( 26.0)	2.7 ( 8.0)	NA	1.01
RHR301BX-STR	3	1.10E-04 ( 36.0)	2.3 ( 9.0)	NA	1.00
SUR-003-R	129	1.40E-02 ( 19.0)	0.9 ( 10.0)	NA	0.46
CONT-LEAK	129	7.50E-01 ( 8.0)	0.0 ( 11.0)		
RHRC02BB-P-UJM	4	3.00E-03 ( 21.0)	0.0 ( 19.5)		
RHRB018B-BOO-LF	4	5.00E-04 ( 33.0)	0.0 ( 19.5)		
HCSF015C-VCC-LF	6	5.00E-04 ( 33.0)	0.0 ( 19.5)		
HCSC001C-PMS-LF	6	1.10E-03 ( 27.5)	0.0 ( 19.5)		
RA-1-1-27H	56	2.10E-03 ( 23.5)	0.0 ( 19.5)		
OPFA1LSCDS-OE-8M	14	3.40E-01 ( 10.0)	0.0 ( 19.5)		
RHRH018X-HTX-LFB	8	6.20E-03 ( 20.0)	0.0 ( 19.5)		
HACTCPF2-FUS-LF	19	5.40E-04 ( 29.5)	0.0 ( 19.5)		
HACTCPF1-FUS-LF	19	5.40E-04 ( 29.5)	0.0 ( 19.5)		
1E8235A-BCO-LF	6	7.20E-05 ( 37.0)	0.0 ( 19.5)		
OPFA1V-VENT-6H	24	2.10E-03 ( 23.5)	0.0 ( 19.5)		
CSCF068B-VCC-LF	4	5.00E-04 ( 33.0)	0.0 ( 19.5)		
RHRF488B-VOO-LF	4	5.00E-04 ( 33.0)	0.0 ( 19.5)		
RHRC028B-PMS-LF	4	1.10E-03 ( 27.5)	0.0 ( 19.5)		
RA-2-11-27H	6	1.60E-03 ( 25.0)	0.0 ( 19.5)		
HCSF004C-VCC-LF	6	5.00E-04 ( 33.0)	0.0 ( 19.5)		
RC1CRMCOOL-FLAG	105	1.00E+00 ( 4.0)			
EE-MDC-IAS-CB-R	55	3.30E-01 ( 11.5)			
EE-MDC-IAS-AB-R	54	3.30E-01 ( 11.5)			
NOFLOW-SPC-B5X	8	1.00E+00 ( 4.0)			
NOFLOW-RHR-B1	3	1.00E+00 ( 4.0)			
NOFLOW-CSS-B7A	8	1.00E+00 ( 4.0)			
EE-CST-LVL	6	1.00E+00 ( 4.0)			
TSCDSS0PERCENT	6	5.00E-01 ( 9.0)			
SCSF068B-DENER	4	1.00E+00 ( 4.0)			
FLOW-RHR-B3	32	1.00E+00 ( 4.0)			

A-480

SEQUENCE T84

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPDSB2-T-SEQ68 WITH TOP EVENT FREQUENCY 1.42E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	2	9	6.19E-12	0.04344	/CONT-LEAK	* FLOW-RHR-B3	* HACTK9-ROO-LFO	* IE-T101	*
3					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
4					SUR-003-R	+			
5	1	9	6.19E-12	0.08687	/CONT-LEAK	* FLOW-RHR-B3	* HACTK3-ROO-LFO	* IE-T101	*
6					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
7					SUR-003-R	+			
8	3	10	6.01E-12	0.12903	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* IE-T101	*
9					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
10					RCICRMCOOL-FLAG	* SUR-003-R	+		
11	9	9	6.01E-12	0.17119	/CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
12					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
13					SUR-003-R	+			
14	10	10	6.01E-12	0.21335	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
15					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
16					RCICRMCOOL-FLAG	* SUR-003-R	+		
17	8	10	6.01E-12	0.25551	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
18					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
19					RCICRMCOOL-FLAG	* SUR-003-R	+		
20	7	9	6.01E-12	0.29767	/CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
21					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
22					SUR-003-R	+			
23	6	10	6.01E-12	0.33982	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
24					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	*
25					RCICRMCOOL-FLAG	* SUR-003-R	+		
26	5	9	6.01E-12	0.38198	/CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
27					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
28					SUR-003-R	+			
29	4	9	6.01E-12	0.42414	/CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
30					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	*
31					SUR-003-R	+			
32	13	8	5.00E-12	0.45923	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK9BRCB-ROO-LFO	*
33					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	*
34	14	8	5.00E-12	0.49431	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK9BRCB-ROO-LFO	*
35					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	*
36	11	8	5.00E-12	0.52939	/CONT-LEAK	* HACTK9-ROO-LFO	* IE-T101	* LAK18BRB-ROO-LFO	*
37					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	*
38	12	8	5.00E-12	0.56447	/CONT-LEAK	* HACTK3-ROO-LFO	* IE-T101	* LAK18BRB-ROO-LFO	*
39					OPFAILSCDS-OE-8M	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	*
40	15	8	4.85E-12	0.59853	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* IE-T101	*
41					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	*
42	16	8	4.85E-12	0.63258	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
43					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	*
44	22	8	4.85E-12	0.66663	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
45					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	*

46	20	8	4.85E-12	0.70068	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* 1E-T101	*
47					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
48	19	8	4.85E-12	0.73473	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-T101	*
49					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
50	21	8	4.85E-12	0.76878	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-T101	*
51					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
52	18	8	4.85E-12	0.80283	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-T101	*
53					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
54	17	8	4.85E-12	0.83688	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-T101	*
55					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
56	26	8	1.86E-12	0.84995	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-T101	*
57					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-003-R	+
58	24	8	1.86E-12	0.86302	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-T101	*
59					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-003-R	+
60	25	8	1.86E-12	0.87609	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* 1E-T101	*
61					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-003-R	+
62	23	8	1.86E-12	0.88916	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* 1E-T101	*
63					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRH01BX-HTX-LFB	* SUR-003-R	+
64	28	9	9.01E-13	0.89548	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* 1E-T101	*
65					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF068B-DENER	*
66					SUR-003-R	+			
67	30	9	9.01E-13	0.90181	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-T101	*
68					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF068B-DEN2R	*
69					SUR-003-R	+			
70	27	9	9.01E-13	0.90813	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* 1E-T101	*
71					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF068B-DENER	*
72					SUR-003-R	+			
73	29	9	9.01E-13	0.91446	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-T101	*
74					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-P-UUM	* SCSF068B-DENER	*
75					SUR-003-R	+			
76	31	8	3.71E-13	0.91706	/CONT-LEAK	* CSCD300B-PLG-LF	* HACTK3-ROO-LFO	* 1E-T101	*
77					DPFALLSCDS-DE-BM	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
78	32	8	3.71E-13	0.91967	/CONT-LEAK	* CSCD300B-PLG-LF	* HACTK9-ROO-LFO	* 1E-T101	*
79					JPFALLSCDS-DE-BM	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
80	36	8	3.60E-13	0.92220	/CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	*
81					1E-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
82	35	8	3.60E-13	0.92473	/CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	*
83					1E-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
84	34	8	3.60E-13	0.92726	/CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	*
85					1E-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
86	33	8	3.60E-13	0.92979	/CONT-LEAK	* CSCD300B-PLG-LF	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	*
87					1E-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
88	40	8	3.30E-13	0.93211	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK3-ROO-LFO	* 1E-T101	*
89					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-003-R	+
90	39	8	3.30E-13	0.93442	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* 1E-T101	*
91					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-003-R	+
92	38	8	3.30E-13	0.93674	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* 1E-T101	*
93					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-003-R	+
94	37	8	3.30E-13	0.93906	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK9-ROO-LFO	* 1E-T101	*
95					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRC02BB-PMS-LF	* SUR-003-R	+
96	44	8	2.67E-13	0.94093	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HCSC001C-PMS-LF	* 1E-T101	*
97					LAK18BRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+

98	43	8	2.67E-13	0.94281	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HCSC001C-PMS-LF	* IE-T101	*
99					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
100	42	8	2.67E-13	0.94468	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HCSC001C-PMS-LF	* IE-T101	*
101					LAK1BBRB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
102	41	8	2.67E-13	0.94655	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HCSC001C-PMS-LF	* IE-T101	*
103					LAK9BRCB-ROO-LFO	* RA-1-1-27H	* RCICRMCOOL-FLAG	* SUR-003-R	+
104	46	9	2.03E-13	0.94798	/CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HCSC001C-PMS-LF	*
105					IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* RCICRMCOOL-FLAG	+
106					SUR-003-R	+			
107	45	9	2.03E-13	0.94941	/CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HCSC001C-PMS-LF	*
108					IE-T101	* LAK93BRC-ROO-LFO	* RA-2-11-27H	* RCICRMCOOL-FLAG	+
109					SUR-003-R	+			
110	48	9	1.67E-13	0.95058	/CONT-LEAK	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	* IE-T101	*
111					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	+
112					SUR-003-R	+			
113	47	9	1.67E-13	0.95175	/CONT-LEAK	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	* IE-T101	*
114					LAK93BRC-ROO-LFO	* OPFAILSCDS-OE-8M	* RA-1-3-27H	* RCICRMCOOL-FLAG	+
115					SUR-003-R	+			
116	56	9	1.62E-13	0.95289	/CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	*
117					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	+
118					SUR-003-R	+			
119	54	9	1.62E-13	0.95403	/CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	*
120					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	+
121					SUR-003-R	+			
122	53	9	1.62E-13	0.95517	/CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTCPF2-FUS-LF	*
123					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	+
124					SUR-003-R	+			
125	52	10	1.62E-13	0.95631	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF2-FUS-LF	* IE-T101	*
126					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	+
127					RCICRMCOOL-FLAG	* SUR-003-R	+		
128	51	10	1.62E-13	0.95744	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTCPF1-FUS-LF	* IE-T101	*
129					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	+
130					RCICRMCOOL-FLAG	* SUR-003-R	+		
131	55	9	1.62E-13	0.95858	/CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTCPF1-FUS-LF	*
132					IE-T101	* LAK93BRC-ROO-LFO	* RA-1-3-27H	* RCICRMCOOL-FLAG	+
133					SUR-003-R	+			
134	50	10	1.62E-13	0.95972	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF1-FUS-LF	* IE-T101	*
135					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	+
136					RCICRMCOOL-FLAG	* SUR-003-R	+		
137	49	10	1.62E-13	0.96086	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTCPF2-FUS-LF	* IE-T101	*
138					LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* RA-1-3-27H	+
139					RCICRMCOOL-FLAG	* SUR-003-R	+		
140	62	8	1.50E-13	0.96191	/CONT-LEAK	* EE-MDC-IAS-CB-R	* HACTK3-ROO-LFO	* IE-T101	*
141					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRB01BB-B00-LF	* SUR-003-R	+
142	61	8	1.50E-13	0.96297	/CONT-LEAK	* EE-MDC-IAS-AB-R	* HACTK9-ROO-LFO	* IE-T101	*
143					RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRB01BB-B00-LF	* SUR-003-R	+
144	60	9	1.50E-13	0.96402	/CONT-LEAK	* EE-MDC-IAS-AB-R	* FLOW-RHR-B3	* HACTK9-ROO-LFO	*
145					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF48BB-V00-LF	+
146					SUR-003-R	+			
147	59	9	1.50E-13	0.96507	/CONT-LEAK	* EE-MDC-IAS-CB-R	* FLOW-RHR-B3	* HACTK3-ROO-LFO	*
148					IE-T101	* RA-1-3-27H	* RCICRMCOOL-FLAG	* RHRF48BB-V00-LF	+
149					SUR-003-R	+			

150	57	9	1.50E-13	0.96613	/CONT-LEAK 1E-1101	EE-MDC-IAS-AB-R RA-1-3-27H	FLW-RHR-B3 RCICRMC00L-FLAG	HACTK3-R00-LFO RHRF488B-V00-LF	**
151					SUR-003-R				**
152	63	9	1.50E-13	0.96718	/CONT-LEAK 1E-1101	EE-MDC-IAS-CB-R RA-1-3-27H	FLW-RHR-B3 RCICRMC00L-FLAG	HACTK9-R00-LFO RHRF488B-V00-LF	**
153					SUR-003-R				**
154					/CONT-LEAK				**
155	58	8	1.50E-13	0.96824	RA-1-3-27H	EE-MDC-IAS-AB-R RCICRMC00L-FLAG	HACTK3-R00-LFO RHRB018B-800-LF	SUR-003-R HACTK9-R00-LFO	**
156					/CONT-LEAK	CSCF0688-VCC-LF	EE-MDC-IAS-CB-R	HACTK9-R00-LFO	**
157	68	8	1.50E-13	0.96929	1E-1101	RA-1-3-27H	RCICRMC00L-FLAG	SUR-003-R	**
158					/CONT-LEAK	CSCF0688-VCC-LF	EE-MDC-IAS-AB-R	HACTK9-R00-LFO	**
159	67	8	1.50E-13	0.97034	1E-1101	RA-1-3-27H	RCICRMC00L-FLAG	SUR-003-R	**
160					/CONT-LEAK	CSCF0688-VCC-LF	EE-MDC-IAS-AB-R	HACTK3-R00-LFO	**
161	66	8	1.50E-13	0.97140	1E-1101	RA-1-3-27H	RCICRMC00L-FLAG	SUR-003-R	**
162					/CONT-LEAK	CSCF0688-VCC-LF	EE-MDC-IAS-AB-R	HACTK3-R00-LFO	**
163	65	8	1.50E-13	0.97245	1E-1101	RA-1-3-27H	RCICRMC00L-FLAG	SUR-003-R	**
164					/CONT-LEAK	CSCF0688-VCC-LF	EE-MDC-IAS-AB-R	HACTK3-R00-LFO	**
165	64	8	1.50E-13	0.97351	RA-1-3-27H	EE-MDC-IAS-CB-R	RCICRMC00L-FLAG	SUR-003-R	**
166					/CONT-LEAK	RCICRMC00L-FLAG	HACTK9-R00-LFO	1E-1101	**
167	72	8	1.35E-13	0.7445	OPFAILSCDS-DE-BM	HACTCP1-FUS-LF	RHRB018B-800-LF	SUR-003-R	**
168					/CONT-LEAK	RA-1-1-27H	1E-1101	SUR-003-R	**
169					/CONT-LEAK	HACTCP2-FUS-LF	RCICRMC00L-FLAG	LAK98RCB-R00-LFO	**
170	71	8	1.35E-13	0.97540	OPFAILSCDS-DE-BM	RA-1-1-27H	1E-1101	LAK98RCB-R00-LFO	**
171					/CONT-LEAK	HACTCP2-FUS-LF	RCICRMC00L-FLAG	SUR-003-R	**
172	70	8	1.35E-13	0.97635	OPFAILSCDS-DE-BM	RA-1-1-27H	1E-1101	LAK188RB-R00-LFO	**
173					/CONT-LEAK	HACTCP2-FUS-LF	RCICRMC00L-FLAG	SUR-003-R	**
174	69	8	1.35E-13	0.97730	OPFAILSCDS-DE-BM	RA-1-1-27H	1E-1101	LAK188RB-R00-LFO	**
175					/CONT-LEAK	HACTCP1-FUS-LF	RCICRMC00L-FLAG	SUR-003-R	**
176	80	8	1.31E-13	0.97821	LAK188RB-R00-LFO	EE-MDC-IAS-CB-R	HACTCP1-FUS-LF	1E-1101	**
177					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
178	79	8	1.31E-13	0.97913	LAK188RB-R00-LFO	EE-MDC-IAS-CB-R	HACTCP2-FUS-LF	1E-1101	**
179					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
180	78	8	1.31E-13	0.98005	LAK98RCB-R00-LFO	EE-MDC-IAS-AB-R	HACTCP1-FUS-LF	1E-1101	**
181					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
182	77	8	1.31E-13	0.98097	LAK98RCB-R00-LFO	EE-MDC-IAS-AB-R	HACTCP2-FUS-LF	1E-1101	**
183					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
184	76	8	1.31E-13	0.98189	LAK188RB-R00-LFO	EE-MDC-IAS-AB-R	HACTCP1-FUS-LF	1E-1101	**
185					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
186	75	8	1.31E-13	0.98281	LAK188RB-R00-LFO	EE-MDC-IAS-AB-R	HACTCP2-FUS-LF	1E-1101	**
187					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
188	74	8	1.31E	0.98373	LAK98RCB-R00-LFO	EE-MDC-IAS-CB-R	HACTCP1-FUS-LF	1E-1101	**
189					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
190	73	8	1.31E-13	0.98465	LAK98RCB-R00-LFO	EE-MDC-IAS-CB-R	HACTCP2-FUS-LF	1E-1101	**
191					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
192	88	8	1.21E-13	0.98550	LAK188RB-R00-LFO	EE-MDC-IAS-CB-R	HACTCP1-FUS-LF	1E-1101	**
193					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
194	87	8	1.21E-13	0.98635	LAK98RCB-R00-LFO	EE-MDC-IAS-AB-R	HACTCP2-FUS-LF	1E-1101	**
195					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
196	86	8	1.21E-13	0.98720	LAK188RB-R00-LFO	EE-MDC-IAS-AB-R	HACTCP1-FUS-LF	1E-1101	**
197					/CONT-LEAK	RA-1-1-27H	RCICRMC00L-FLAG	SUR-003-R	**
198	85	9	1.21E-13	0.98806	1E-1101	EE-CST-LVL	EE-MDC-IAS-CB-R	HCSF015C-VCC-LF	**
199					SUR-003-R	LAK98RCB-R00-LFO	RA-1-1-27H	RCICRMC00L-FLAG	**
200									**



201	84	9	1.21E-13	0.98801	/CONT-LEAK	EE-CST-LVL	EE-MDC-IAS-CB-R	MCSF015C-VCC-LF
202					1E-1101	LAK188RB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG
203					SUR-003-R			
204	83	9	1.21E-13	0.98976	/CONT-LEAK	EE-CST-LVL	EE-MDC-IAS-AB-R	MCSF015C-VCC-LF
205					1E-1101	LAK98CB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG
206					SUR-003-R			
207	82	9	1.21E-13	0.99061	/CONT-LEAK	EE-CST-LVL	EE-MDC-IAS-AB-R	MCSF015C-VCC-LF
208					1E-1101	LAK188RB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG
209					SUR-003-R			
210	81	8	1.21E-13	0.99146	/CONT-LEAK	EE-MDC-IAS-CB-R	MCSF004C-VCC-LF	1E-1101
211					LAK98CB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG	SUR-003-R
212	92	10	9.24E-14	0.99211	/CONT-LEAK	EE-CST-LVL	EE-MDC-IAS-AB-R	FLOW-RHR-B3
213					MCSF015C-VCC-LF	1E-1101	LAK938AL-R00-LFO	RA-2-11-27H
214					RCICRMCOOL-FLAG	SUR-003-R		
215	91	9	9.24E-14	0.99276	/CONT-LEAK	EE-MDC-IAS-CB-R	FLOW-RHR-B3	MCSF004C-VCC-LF
216					1E-1101	LAK938RC-R00-LFO	RA-2-11-27H	RCICRMCOOL-FLAG
217					SUR-003-R			
218	90	9	9.24E-14	0.99341	/CONT-LEAK	EE-MDC-IAS-AB-R	FLOW-RHR-B3	MCSF004C-VCC-LF
219					1E-1101	LAK938RC-R00-LFO	RA-2-11-27H	RCICRMCOOL-FLAG
220					SUR-003-R			
221	89	10	9.24E-14	0.99406	/CONT-LEAK	EE-CST-LVL	EE-MDC-IAS-CB-R	FLOW-RHR-B3
222					MCSF015C-VCC-LF	1E-1101	LAK938RC-R00-LFO	RA-2-11-27H
223					RCICRMCOOL-FLAG	SUR-003-R		
224	88	10	7.86E-14	0.99461	1E235A-BCO-LF	/CONT-LEAK	FLOW-RHR-B3	HACTK9-R00-LFO
225					1E-15	LAK938RC-R00-LFO	RA-1-3-27H	RCICRMCOOL-FLAG
226					2-6-003-R	TSCDSS0PERCENT		
227	93	10	7.86E-14	0.99516	1E235A-BCO-LF	/CONT-LEAK	FLOW-RHR-B3	HACTK3-R00-LFO
228					1E-15	LAK938RC-R00-LFO	RA-1-3-27H	RCICRMCOOL-FLAG
229					SUR-003-R	TSCDSS0PERCENT		
230	98	9	6.35E-14	0.99560	1E235A-BCO-LF	/CONT-LEAK	HACTK9-R00-LFO	1E-15
231					LAK98CB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG	SUR-003-R
232					TSCDSS0PERCENT			
233	97	9	6.35E-14	0.99605	1E235A-BCO-LF	/CONT-LEAK	HACTK3-R00-LFO	1E-15
234					LAK98CB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG	SUR-003-R
235					TSCDSS0PERCENT			
236	96	9	6.35E-14	0.99650	1E235A-BCO-LF	/CONT-LEAK	HACTK9-R00-LFO	1E-15
237					LAK188RB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG	SUR-003-R
238					TSCDSS0PERCENT			
239	95	9	6.35E-14	0.99694	1E235A-BCO-LF	/CONT-LEAK	HACTK3-R00-LFO	1E-15
240					LAK188RB-R00-LFO	RA-1-1-27H	RCICRMCOOL-FLAG	SUR-003-R
241					TSCDSS0PERCENT			
242	102	8	5.03E-14	0.99730	/CONT-LEAK	EE-MDC-IAS-CB-R	HACTOPF1-FUS-LF	1E-1101
243					RA-1-3-27H	RCICRMCOOL-FLAG	RHR01BK-RTX-LFB	SUR-003-R
244	101	8	5.03E-14	0.99765	/CONT-LEAK	EE-MDC-IAS-AB-R	HACTOPF1-FUS-LF	1E-1101
245					RA-1-3-27H	RCICRMCOOL-FLAG	RHR01BK-RTX-LFB	SUR-003-R
246	100	8	5.03E-14	0.99800	/CONT-LEAK	EE-MDC-IAS-CB-R	HACTOPF2-FUS-LF	1E-1101
247					RA-1-3-27H	RCICRMCOOL-FLAG	RHR01BK-RTX-LFB	SUR-003-R
248	99	8	5.03E-14	0.99835	/CONT-LEAK	EE-MDC-IAS-AB-R	HACTOPF2-FUS-LF	1E-1101
249					RA-1-3-27H	RCICRMCOOL-FLAG	RHR01BK-RTX-LFB	SUR-003-R

SEQUENCE IDS

TOP EVENT DPOSA2-T-SEG6A CONTAINS 25 EVENTS IN 15 OUT SETS

THE FREQUENCY OF TOP EVENT DPOSA2-T-SEG6A IS 1.42E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DPOSA2-T-SEG6A

N	300
MEAN	5.48E-08
STD DEV	4.77E-07
LOWER 5%	9.63E-12
LOWER 25%	1.97E-10
MEDIAN	1.26E-09
UPPER 25%	8.23E-09
UPPER 5%	9.10E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, M DENOTES NOMINAL VALUE AND N DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE 105  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RCICMCOOL-FLAG	14	1.00E+00 ( 3.0)	1.42E-08 ( 1.5)		
EE-MGP-PSM-BC-R	14	3.50E-01 ( 7.0)	1.42E-08 ( 1.5)		
RA-1-3-27H	10	2.60E-03 ( 20.0)	8.05E-09 ( 3.0)	6.37E-12	4.03E-08
HACTK3-ROO-LFO	7	2.00E-02 ( 11.5)	7.10E-09 ( 4.5)	4.81E-12	4.55E-08
HACTK9-ROO-LFO	7	2.00E-02 ( 11.5)	7.10E-09 ( 4.5)	4.81E-12	4.55E-08
RA-1-1-27H	4	2.10E-03 ( 22.0)	5.54E-09 ( 6.0)	1.55E-12	3.79E-08
LAK93BRC-ROO-LFO	2	2.00E-02 ( 11.5)	3.43E-09 ( 9.0)	7.02E-13	1.89E-08
NOFLOW-SPC-BSX	2	1.00E+00 ( 3.0)	3.43E-09 ( 9.0)		
NOFLOW-CSS-B7A	2	1.00E+00 ( 3.0)	3.43E-09 ( 9.0)		
LAK14BRC-RCD-LFO	2	2.00E-02 ( 11.5)	3.43E-09 ( 9.0)	7.02E-13	1.89E-08
FLOW-RHR-B3	2	1.00E+00 ( 3.0)	3.43E-09 ( 9.0)		
LAK18BFB-POO-LFO	2	2.00E-02 ( 11.5)	2.77E-09 ( 12.5)	7.77E-13	1.90E-08
LAK9BRCB-ROO-LFO	2	2.00E-02 ( 11.5)	2.77E-09 ( 12.5)	7.77E-13	1.90E-08
RHRD1BX-HTX-LFB	2	6.20E-03 ( 16.5)	1.06E-09 ( 14.0)	4.61E-13	3.74E-09
SCSF04BB-DEMER	2	1.00E+00 ( 3.0)	5.15E-10 ( 15.5)		
RHRD2BB-P-ULM	2	3.00E-03 ( 19.0)	5.15E-10 ( 15.5)	2.53E-13	7.60E-10
CSCD300B-PLG-LF	2	1.20E-03 ( 23.0)	2.06E-10 ( 17.0)	1.09E-13	5.78E-10
RA-8-27H	1	3.20E-03 ( 18.0)	9.05E-13 ( 20.5)	1.91E-17	1.05E-12
DG2A-GEN-LF-FTR	1	1.90E-02 ( 15.0)	9.05E-13 ( 20.5)	1.91E-17	1.05E-12
OFFAIL-REOPN-1H	1	2.50E-03 ( 21.0)	9.05E-13 ( 20.5)	1.91E-17	1.05E-12
DG2B-GEN-LF-FTS	1	2.50E-02 ( 8.0)	9.05E-13 ( 20.5)	1.91E-17	1.05E-12
RHRD1AX-HTX-LFB	1	6.20E-03 ( 16.5)	9.05E-13 ( 20.5)	1.91E-17	1.05E-12
RA-9-27H	1	4.00E-01 ( 6.0)	9.05E-13 ( 20.5)	1.91E-17	1.05E-12

SEQUENCE 125  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK INCREASE (RANK)	LOWER SA	UPPER SA
RA-1-3-27H	10	2.60E-03 ( 20.0)	3.32E-06 ( 1.0)	1.03E-08	4.26E-05
RA-1-1-27H	4	2.10E-03 ( 22.0)	2.63E-06 ( 2.0)	2.29E-09	4.11E-05
HACTK3-R00-LFO	7	2.00E-02 ( 11.5)	3.48E-07 ( 3.5)	4.71E-09	1.01E-06
HACTK3-R00-LFO	7	2.00E-02 ( 11.5)	3.48E-07 ( 3.5)	4.71E-09	1.01E-06
CSCD300B-PLG-LF	2	1.20E-03 ( 23.0)	1.71E-07 ( 5.0)	6.55E-10	5.14E-07
RHR028B-P-UM	2	3.00E-03 ( 19.0)	1.71E-07 ( 6.0)	6.55E-10	5.12E-07
RHR018X-HTX-LFB	2	6.20E-03 ( 16.5)	1.71E-07 ( 7.0)	6.51E-10	5.12E-07
LAK938RC-R00-LFO	2	2.00E-02 ( 11.5)	1.68E-07 ( 8.5)	6.53E-10	4.59E-07
LAK148RC-R00-LFO	2	2.00E-02 ( 11.5)	1.68E-07 ( 8.5)	6.53E-10	4.59E-07
LAK98CB-R00-LFO	2	2.00E-02 ( 11.5)	1.36E-07 ( 10.5)	6.32E-10	3.67E-07
LAK188B-R00-LFO	2	2.00E-02 ( 11.5)	1.36E-07 ( 10.5)	6.32E-10	3.67E-07
EE-WDP-PSW-8C-R	14	3.30E-01 ( 7.0)	2.88E-08 ( 12.0)		
OPFAIL-REOPN-1k	1	2.50E-03 ( 21.0)	3.61E-10 ( 13.0)	3.78E-14	8.48E-10
RA-8-27H	1	3.20E-03 ( 18.0)	2.82E-10 ( 14.0)	8.54E-14	7.23E-10
RHR014X-HTX-LFB	1	6.20E-03 ( 16.5)	1.45E-10 ( 15.0)	1.93E-14	4.22E-10
DG2A-GEN-LF-FTR	1	1.90E-02 ( 15.0)	4.67E-11 ( 16.0)	5.07E-15	7.20E-11
DG2B-GEN-LF-FTS	1	2.50E-02 ( 8.0)	3.53E-11 ( 17.0)	1.33E-15	4.45E-11
RA-9-27H	1	4.00E-01 ( 6.0)	1.36E-12 ( 18.0)	4.34E-17	2.23E-12
NOFLOW-SPC-85X	2	1.00E+00 ( 3.0)	0.00E+00 ( 21.0)		
NOFLOW-CSS-87A	2	1.00E+00 ( 3.0)	0.00E+00 ( 21.0)		
SCSF068B-DENER	2	1.00E+00 ( 3.0)	0.00E+00 ( 21.0)		
EM-KHP-B3	2	1.00E+00 ( 3.0)	0.00E+00 ( 21.0)		
EMCOOL-FLAG	14	1.00E+00 ( 3.0)	0.00E+00 ( 21.0)		

SEQUENC. 15  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	X.05/TE.05*	X.95/TE.95*
HACTK9-R00-LFO	7	2.00E-02	( 11.5)	78.4	( 3.5)	101.93	0.52
LAK9BRC-R00-LFO	2	2.00E-02	( 11.5)	78.4	( 3.5)	101.93	0.52
LAK14BRC-R00-LFO	2	2.00E-02	( 11.5)	78.4	( 3.5)	101.93	0.52
HACTK3-R00-LFO	7	2.00E-02	( 11.5)	78.4	( 3.5)	101.93	0.52
LAK18BRC-R00-LFO	2	2.00E-02	( 11.5)	78.4	( 3.5)	101.93	0.52
LAK93BRC-R00-LFO	2	2.00E-02	( 11.5)	78.4	( 3.5)	101.93	0.52
RA-1-3-27H	10	2.60E-03	( 20.0)	8.7	( 7.0)	3.21	1.62
RA-1-1-27H	4	2.10E-03	( 22.0)	2.9	( 8.0)	1.67	1.24
OPFAIL-REOPN-1H	1	2.50E-03	( 21.0)	1.4	( 9.0)	1.00	1.00
RHRH01-RTX-LFB	2	6.20E-03	( 16.5)	0.7	( 10.5)	1.45	1.04
RHRH01AK-RTX-LFB	1	6.20E-03	( 16.5)	0.7	( 10.5)	1.45	1.04
DG2B-GEN-LF-FTS	1	2.50E-02	( 8.0)	0.5	( 12.0)	1.00	1.00
DGZA-GEN-LF-FTR	1	1.90E-02	( 15.0)	0.3	( 13.0)	1.01	1.00
RHRG02B8-P-UUM	2	3.00E-03	( 19.0)	0.0	( 15.5)		
RA-9-27H	1	4.00E-01	( 6.0)	0.0	( 15.5)		
RA-8-27H	1	3.20E-03	( 18.0)	0.0	( 15.5)		
CS03008-PLG-LF	2	1.20E-03	( 23.0)	0.0	( 15.5)		
NOFLOW-SPC-85X	2	1.00E+00	( 3.0)	0.0	( 15.5)		
NOFLOW-CSS-87A	2	1.00E+00	( 3.0)	0.0	( 15.5)		
SCSF06B8-BENER	2	1.00E+00	( 3.0)	0.0	( 15.5)		
FLOW-RHR-B3	2	1.00E+00	( 3.0)	0.0	( 15.5)		
RTICRMCOOL-FLAG	14	1.00E+00	( 3.0)	0.0	( 15.5)		
EE-WOP-PSM-8C-R	14	3.30E-01	( 7.0)	0.0	( 15.5)		

SEQUENCE 185

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR ... EVENT DPOSA2-T-SEQ6A WITH TOP EVENT FREQUENCY 1.42E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TENACSETS.DNF)

2	3	8	1.72E-09	0.12090	EE-MOP-PSW-BC-R	HACTK3-R00-LFO	IE-1101	LAK148RC-R00-LFO
3					NOFLOW-CSS-B7A	NOFLOW-SPC-B5K	RA-1-3-27H	RCICRMCOOL-FLAG
4	1	7	1.72E-09	0.24180	EE-MOP-PSW-BC-R	FLOW-RHR-B3	HACTK3-R00-LFO	IE-1101
5					LAK93BRC-R00-LFO	RA-1-3-27H	RCICRMCOOL-FLAG	
6	2	8	1.72E-09	0.36270	EE-MOP-PSW-BC-R	HACTK9-R00-LFO	IE-1101	LAK148RC-R00-LFO
7					NOFLOW-CSS-B7A	NOFLOW-SPC-B5K	RA-1-3-27H	RCICRMCOOL-FLAG
8	4	7	1.72E-09	0.48360	EE-MOP-PSW-BC-R	FLOW-RHR-B3	HACTK9-R00-LFO	IE-1101
9					LAK93BRC-R00-LFO	RA-1-3-27H	RCICRMCOOL-FLAG	
10	6	6	1.39E-09	0.58125	EE-MOP-PSW-BC-R	HACTK3-R00-LFO	IE-1101	LAK128RB-R00-LFO
11					RA-1-1-27H	RCICRMCOOL-FLAG		LAK965CB-R00-LFO
12	7	6	1.39E-09	0.67890	EE-MOP-PSW-BC-R	HACTK3-R00-LFO	RA-1-3-27H	LAK965CB-R00-LFO
13					RA-1-1-27H	RCICRMCOOL-FLAG		LAK128RB-R00-LFO
14					EE-MOP-PSW-BC-R	HACTK9-R00-LFO		LAK965CB-R00-LFO
15	5	6	1.39E-09	0.77655	RA-1-1-27H	RCICRMCOOL-FLAG		LAK128RB-R00-LFO
16	8	6	1.39E-09	0.87420	EE-MOP-PSW-BC-R	HACTK3-R00-LFO		LAK965CB-R00-LFO
17					RA-1-1-27H	RCICRMCOOL-FLAG		LAK128RB-R00-LFO
18	10	6	5.32E-10	0.91168	EE-MOP-PSW-BC-R	HACTK3-R00-LFO		RA-1-3-27H
19					RCICRMCOOL-FLAG	RHR01BK-RTK-LFB		RA-1-3-27H
20	9	6	5.32E-10	0.94916	EE-MOP-PSW-BC-R	HACTK9-R00-LFO		
21					RCICRMCOOL-FLAG	RHR01BK-RTK-LFB		
22	12	7	2.57E-10	0.96729	EE-MOP-PSW-BC-R	HACTK9-R00-LFO	IE-1101	
23					RCICRMCOOL-FLAG	RHR01BK-RTK-LFB		
24	11	7	2.57E-10	0.98543	EE-MOP-PSW-BC-R	HACTK3-R00-LFO	SCSF068B-DENER	
25					RCICRMCOOL-FLAG	RHR01BK-RTK-LFB	IE-1101	
26	14	6	1.03E-10	0.99268	CSCD300B-P11-LF	EE-MOP-PSW-BC-R	SCSF068B-DENER	
27					RA-1-3-27H	RCICRMCOOL-FLAG	HACTK9-R00-LFO	
28	13	6	1.03E-10	0.99994	CSCD300B-P11-LF	EE-MOP-PSW-BC-R	HACTK3-R00-LFO	
29					RA-1-3-27H	RCICRMCOOL-FLAG		
30	15	7	9.05E-13	1.00000	DC2A-GEN-LF-FTR	DC2B-GEN-LF-FTS	IE-LOSP	OFFAIL-RECPN-1K
31					RA-8-27H	RA-9-27H	RHR01BK-RTK-LFB	

TENAC RUN TIME IN CPU SECONDS 18.62

SEQUENCE T100

TOP EVENT POS-T-SEQB      CONTAINS    ZOB EVENTS IN    T167 OUT SETS

THE FREQUENCY OF TOP EVENT POS-T-SEQB    IS    2.14E-05

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT POS-T-SEQB

N	300
MEAN	2.87E-05
STD DEV	7.51E-05
LOWER 5%	1.10E-06
LOWER 25%	3.56E-06
MEDIAN	9.07E-06
UPPER 25%	2.30E-05
UPPER 5%	9.74E-05

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE T100  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RA-8-1H	618	2.50E-01 ( 14.0)	1.89E-05 ( 1.0)	9.15E-07	8.96E-05
DGCOOL-BETA	9	1.10E-01 ( 15.5)	1.49E-25 ( 2.5)	2.04E-07	6.55E-05
DGCOOL-PMS-CM	9	2.50E-03 ( 76.0)	1.49E-05 ( 2.5)	2.04E-07	6.55E-05
RCICRMCOOL-FLAG	948	1.00E+00 ( 3.0)	1.08E-05 ( 4.0)		
OPFALLS-REOPEN	123	1.00E+00 ( 3.0)	8.85E-16 ( 5.0)		
RA-9-1H	469	9.30E-01 ( 6.0)	5.16E-06 ( 6.0)	8.72E-08	2.95E-05
DIG0-GEN-LF-FTS	399	2.50E-02 ( 20.5)	4.43E-06 ( 7.0)	8.83E-08	2.82E-05
AP040X2-R00-LFO	317	2.00E-02 ( 31.0)	3.35E-06 ( 8.0)	2.23E-08	2.12E-05
DG2B-GEN-LF-FTS	296	2.50E-02 ( 20.5)	2.33E-06 ( 9.0)	7.35E-08	1.41E-05
RA-NONE	9	1.00E+00 ( 3.0)	1.37E-06 ( 10.0)		
1E4327NY-R00-LFO	167	2.00E-02 ( 31.0)	1.35E-06 ( 11.0)	5.52E-09	9.59E-06
1E4327NY-R00-LFO	165	2.00E-02 ( 31.0)	1.32E-06 ( 12.0)	5.31E-09	9.44E-06
AP039X2-R00-LFO	76	2.00E-02 ( 31.0)	1.19E-06 ( 13.0)	6.67E-09	8.22E-06
RA-9-2H	518	8.70E-01 ( 8.0)	7.70E-07 ( 14.5)	3.70E-09	3.85E-06
RA-8-10H	518	2.00E-02 ( 31.0)	7.70E-07 ( 14.5)	3.70E-09	3.85E-06
EE-MOP-PSM-BC-R	10	3.30E-01 ( 12.0)	4.60E-07 ( 17.0)		
EE-MOC-IAS-CB-R	10	3.30E-01 ( 12.0)	4.60E-07 ( 17.0)		
EE-MOC-IAS-AB-R	10	3.30E-01 ( 12.0)	4.60E-07 ( 17.0)		
DG0-G-UJM	44	6.00E-03 ( 46.5)	3.95E-07 ( 19.0)	7.73E-09	2.21E-06
DIG0-GEN-LF-FTR	226	1.90E-02 ( 41.0)	3.84E-07 ( 20.0)	7.88E-10	2.56E-06
DIG2A-GEN-LF-FTR	212	1.90E-02 ( 41.0)	3.12E-07 ( 21.0)	2.66E-09	1.75E-06
RA-3-12-80M	4	3.50E-03 ( 53.0)	2.94E-07 ( 22.0)	7.50E-10	9.21E-07
RCIC001X-TDP-LF	48	3.00E-02 ( 17.5)	2.92E-07 ( 23.0)	3.41E-09	1.48E-06
T5CDS50PERCENT	1	5.00E-01 ( 9.0)	2.89E-07 ( 24.0)		
DG0-GEN-CC-FTS	64	3.70E-03 ( 51.0)	2.66E-07 ( 25.0)	8.63E-10	1.43E-06
DG2B-G-UJM	33	6.00E-03 ( 46.5)	2.62E-07 ( 26.0)	7.10E-09	1.07E-06
DG2B-GEN-LF-FTR	156	1.90E-02 ( 41.0)	2.35E-07 ( 27.0)	5.78E-10	1.33E-06
DG-FTS-BETA	5	1.20E-02 ( 43.0)	2.14E-07 ( 28.5)	3.52E-09	8.21E-07
DGK-GEN-CM-FTS	5	2.50E-02 ( 20.5)	2.14E-07 ( 28.5)	3.52E-09	8.21E-07
RA-15-1H	2	9.10E-01 ( 7.0)	2.13E-07 ( 30.0)	3.34E-09	8.15E-07
DG2B-GEN-CC-FTS	45	3.70E-03 ( 51.0)	1.81E-07 ( 31.0)	8.47E-10	8.61E-07
C20G01P-P-UJM	14	3.00E-03 ( 58.0)	1.23E-07 ( 32.0)	7.53E-10	5.10E-07
DG2V03CB-FWS-CC	16	2.50E-03 ( 76.0)	1.04E-07 ( 34.5)	8.55E-10	6.66E-07
5EYV03CB-FWS-CC	16	2.50E-03 ( 76.0)	1.04E-07 ( 34.5)	8.55E-10	6.66E-07
1E8234B-BCC-CC	16	2.50E-03 ( 76.0)	1.04E-07 ( 34.5)	8.55E-10	6.66E-07
1E8425B-BCC-CC	16	2.50E-03 ( 76.0)	1.04E-07 ( 34.5)	8.55E-10	6.66E-07
C20G01P-FWS-CC	14	2.50E-03 ( 76.0)	1.02E-07 ( 37.0)	7.92E-10	6.65E-07
EE-C20G01F-PLG	55	7.20E-04 ( 97.0)	7.67E-08 ( 38.0)	8.69E-10	3.44E-07
C20G01P-FWS-LF	44	1.10E-03 ( 91.5)	7.45E-08 ( 39.0)	1.12E-09	3.59E-07
DAY-M00-COM-CC	8	2.50E-03 ( 76.0)	7.10E-08 ( 40.0)	5.52E-10	4.64E-07
1E8235A-BCC-AS	9	2.50E-03 ( 76.0)	6.66E-08 ( 41.0)	2.45E-10	2.40E-07
D0V8202K-BCO-LF	53	2.00E-02 ( 31.0)	5.70E-08 ( 43.5)	1.37E-11	8.35E-07
D0V8101X-BCO-LF	53	2.00E-02 ( 31.0)	5.70E-08 ( 43.5)	1.37E-11	8.35E-07
D0V8201X-BCO-LF	53	2.00E-02 ( 31.0)	5.70E-08 ( 43.5)	1.37E-11	8.35E-07
D0V8102X-BC9-LF	53	2.00E-02 ( 31.0)	5.70E-08 ( 43.5)	1.37E-11	8.35E-07



EE-C00G01F-PLG	30	7.20E-04	( 97.0)	5.23E-08	( 46.0)	2.02E-10	3.76E-07
DG0V01CA-RUM-0	9	1.40E-03	( 89.0)	4.77E-08	( 47.0)	9.35E-11	4.02E-07
DG2A-GEN-LF-FTS	24	2.50E-02	( 20.5)	4.44E-08	( 48.0)	3.83E-10	3.88E-07
DG2V02FX-KLN-LFB	25	5.80E-04	(103.0)	4.37E-08	( 49.5)	3.29E-10	1.44E-07
C2D0G01F-PLG-LF	25	5.80E-04	(103.0)	4.37E-08	( 49.5)	3.29E-10	1.44E-07
C00G01P-P-UUM	6	3.00E-03	( 58.0)	4.34E-08	( 51.0)	1.32E-10	1.60E-07
C00G01P-PMS-LF	19	1.10E-03	( 91.5)	4.26E-08	( 52.0)	2.03E-10	3.01E-07
HCSC001C-P-UUM	7	3.00E-03	( 58.0)	4.19E-08	( 53.0)	1.39E-10	1.69E-07
CSCC002-P-UUM	6	3.00E-03	( 58.0)	4.07E-08	( 54.0)	1.33E-10	1.68E-07
EE-CSCD300-PLG	24	7.20E-04	( 97.0)	3.85E-08	( 55.0)	2.17E-10	1.79E-07
1EB412A-BCC-CC	7	2.50E-03	( 76.0)	3.72E-08	( 57.5)	1.50E-10	1.35E-07
1EB413A-B00-CC	7	2.50E-03	( 76.0)	3.72E-08	( 57.5)	1.50E-10	1.35E-07
D0V-M0D-C0M-CC	7	2.50E-03	( 76.0)	3.72E-08	( 57.5)	1.50E-10	1.35E-07
DG0Y01CA-FMS-CC	7	2.50E-03	( 76.0)	3.72E-08	( 57.5)	1.50E-10	1.35E-07
C00G01F-PLG-LF	17	5.80E-04	(103.0)	3.67E-08	( 60.5)	1.31E-10	1.72E-07
DG0V01FX-KLN-LFB	17	5.80E-04	(103.0)	3.67E-08	( 60.5)	1.31E-10	1.72E-07
C00G01P-PMS-CC	6	2.50E-03	( 76.0)	3.62E-08	( 62.0)	1.36E-10	1.30E-07
1EB233A-BCC-LF	16	5.00E-04	(125.0)	3.60E-08	( 63.0)	0.12E-11	2.43E-07
1EB425B-BCC-LF	21	5.00E-04	(125.0)	3.59E-08	( 64.5)	2.32E-10	1.47E-07
1EB234B-BCC-LF	21	5.00E-04	(125.0)	3.59E-08	( 64.5)	2.32E-10	1.47E-07
DGHV01CC-FMS-CC	7	2.50E-03	( 76.0)	3.49E-08	( 68.5)	1.45E-10	1.40E-07
HCSC001C-PMS-CS	7	2.50E-03	( 76.0)	3.49E-08	( 68.5)	1.45E-10	1.40E-07
1EB433C-B00-CC	7	2.50E-03	( 76.0)	3.49E-08	( 68.5)	1.45E-10	1.40E-07
SWVP2CC-FMS-CC	7	2.50E-03	( 76.0)	3.49E-08	( 68.5)	1.45E-10	1.40E-07
1EB432C-BCC-CC	7	2.50E-03	( 76.0)	3.49E-08	( 68.5)	1.45E-10	1.40E-07
DHV-M0D-C0M-CC	7	2.50E-03	( 76.0)	3.49E-08	( 68.5)	1.45E-10	1.40E-07
OPFAIL-REOPN-Z0M	16	3.50E-01	( 10.0)	3.45E-08	( 72.0)	6.68E-10	1.59E-07
CSCC002-PMS-CC	6	2.50E-03	( 76.0)	3.39E-08	( 73.0)	1.30E-10	1.38E-07
SEVY03AK-ACX-LFI	8	8.40E-04	( 94.5)	3.34E-08	( 74.0)	2.19E-10	1.61E-07
RA-1-3-1H	50	3.20E-03	( 55.0)	2.71E-08	( 75.0)	9.17E-12	3.21E-07
DG0-GEN-CC-FTR	22	2.80E-03	( 62.0)	2.69E-08	( 76.0)	4.35E-11	1.47E-07
CSCD300-PLG-LF	13	5.80E-04	(103.0)	2.48E-08	( 77.5)	1.24E-10	7.32E-08
DGHV01FX-KLN-LFB	13	5.80E-04	(103.0)	2.48E-08	( 77.5)	1.24E-10	7.32E-08
DG2A-GEN-CC-FTR	26	2.80E-03	( 62.0)	2.48E-08	( 79.0)	9.36E-11	1.07E-07
HCSC001C-PMS-LF	18	1.10E-03	( 91.5)	2.37E-08	( 80.0)	4.59E-10	8.85E-08
1EK1BARC-R00-LFO	8	5.80E-04	(103.0)	2.30E-08	( 81.0)	9.13E-11	1.52E-07
DG2V03CB-FMS-LF	8	5.40E-04	(109.0)	2.15E-08	( 82.5)	8.04E-10	1.12E-07
SEVY03CB-FMS-LF	8	5.40E-04	(109.0)	2.15E-08	( 82.5)	8.04E-10	1.12E-07
SY-REGP-RCIC001X	6	2.50E-03	( 76.0)	2.00E-08	( 84.0)	1.79E-10	8.56E-08
DG2V11YB-M-UUM	8	5.00E-04	(125.0)	1.99E-08	( 87.5)	9.17E-10	9.91E-08
DG2V10YB-M-UUM	8	5.00E-04	(125.0)	1.99E-08	( 87.5)	9.17E-10	9.91E-08
DG2V09YB-M-UUM	8	5.00E-04	(125.0)	1.99E-08	( 87.5)	9.17E-10	9.91E-08
DG2V03CB-F-UUM	8	5.00E-04	(125.0)	1.99E-08	( 87.5)	9.17E-10	9.91E-08
2DG1PK1B-R00-LFO	8	5.00E-04	(125.0)	1.99E-08	( 87.5)	8.35E-11	1.56E-07
SEVY03CB-F-UUM	8	5.00E-04	(125.0)	1.99E-08	( 87.5)	9.17E-10	9.91E-08
CSCC002-PMS-LF	15	1.10E-03	( 91.5)	1.98E-08	( 91.0)	1.77E-10	8.01E-08
DG2B-GEN-CC-FTR	16	2.80E-03	( 62.0)	1.91E-08	( 92.0)	4.05E-11	7.18E-08
1EB413A-B00-LF	10	5.00E-04	(125.0)	1.80E-08	( 93.5)	3.20E-11	1.27E-07
1EB412A-BCC-LF	10	5.00E-04	(125.0)	1.80E-08	( 93.5)	3.20E-11	1.27E-07
DG2V11YB-MCC-LF	12	3.00E-04	(153.0)	1.71E-08	( 96.0)	8.85E-10	6.79E-08
DG2V10YB-M0D-LF	12	3.00E-04	(153.0)	1.71E-08	( 96.0)	8.85E-10	6.79E-08
DG2V09YB-MCC-LF	12	3.00E-04	(153.0)	1.71E-08	( 96.0)	8.85E-10	6.79E-08

SHVY02AK-ACK-LF1	4	8.40E-04 ( 94.5)	1.11E-08 ( 98.0)	5.14E-11	4.25E-08
DGV003YA-MCC-LF	5	3.00E-04 (153.0)	9.84E-09 (100.0)	7.69E-11	6.41E-08
DGV002YA-MCC-LF	5	3.00E-04 (153.0)	9.84E-09 (100.0)	7.69E-11	6.41E-08
DGV001YA-MCC-LF	5	3.00E-04 (153.0)	9.84E-09 (100.0)	7.69E-11	6.41E-08
HACTK9-R00-LFO	20	2.00E-02 ( 31.0)	9.43E-09 (102.0)	3.74E-12	9.30E-08
AP037K3-R00-LFO	14	2.00E-02 ( 31.0)	9.06E-09 (103.0)	3.34E-13	1.52E-07
EE-CST-LVL	9	1.00E+00 ( 3.0)	8.85E-09 (104.0)		
HACTK13CP9-LFO	4	6.00E-04 ( 99.0)	8.71E-09 (105.0)	1.12E-10	3.86E-08
HFD4C5C-800-LF	2	6.00E-03 ( 46.5)	8.38E-09 (106.0)	2.19E-11	4.35E-08
1EB423B-800-LF	4	5.00E-04 (125.0)	8.07E-09 (107.5)	5.09E-11	4.78E-08
1EB422B-800-LF	4	5.00E-04 (125.0)	8.07E-09 (107.5)	5.09E-11	4.78E-08
DGV001CA-FMS-LF	6	5.40E-04 (109.0)	7.81E-09 (109.0)	1.29E-10	3.21E-08
1EB433C-800-LF	6	5.00E-04 (125.0)	7.73E-09 (111.5)	2.25E-11	2.77E-08
1EB432C-800-LF	6	5.00E-04 (125.0)	7.73E-09 (111.5)	2.25E-11	2.77E-08
HCSF015C-VCC-LF	6	5.00E-04 (125.0)	7.73E-09 (111.5)	2.24E-11	2.85E-08
HCSF004C-VCC-LF	6	5.00E-04 (125.0)	7.73E-09 (111.5)	2.24E-11	2.85E-08
DGV003YA-M-UM	6	5.00E-04 (125.0)	7.23E-09 (115.5)	1.24E-10	3.34E-08
DGV001CA-F-UM	6	5.00E-04 (125.0)	7.23E-09 (115.5)	1.24E-10	3.34E-08
DGV002YA-M-UM	6	5.00E-04 (125.0)	7.23E-09 (115.5)	1.24E-10	3.34E-08
DGV001YA-M-UM	6	5.00E-04 (125.0)	7.23E-09 (115.5)	1.24E-10	3.34E-08
SHVY02CC-FMS-LF	4	5.40E-04 (109.0)	7.12E-09 (118.5)	1.22E-10	2.79E-08
DGM101CC-FMS-LF	4	5.40E-04 (109.0)	7.12E-09 (118.5)	1.22E-10	2.79E-08
DGHV01CC-F-UM	4	5.00E-04 (125.0)	6.60E-09 (122.5)	1.21E-10	2.91E-08
SHVY02CC-F-UM	4	5.00E-04 (125.0)	6.60E-09 (122.5)	1.21E-10	2.91E-08
CSD02K18-R00-LFO	4	5.00E-04 (125.0)	6.60E-09 (122.5)	6.78E-12	7.27E-08
DGHV03YC-M-UM	4	5.00E-04 (125.0)	6.60E-09 (122.5)	1.21E-10	2.91E-08
DGHV02YC-M-UM	4	5.00E-04 (125.0)	6.60E-09 (122.5)	1.21E-10	2.91E-08
DGHV01YC-M-UM	4	5.00E-04 (125.0)	6.60E-09 (122.5)	1.21E-10	2.91E-08
HACTK3 - ~-LFO	12	2.00E-02 ( 31.0)	6.30E-09 (126.0)	8.83E-13	7.08E-08
LAK10A - ~-LFO	9	2.00E-02 ( 31.0)	5.84E-09 (127.0)	2.20E-13	9.69E-08
SEVY03AX-A-UM	3	3.00E-04 (153.0)	4.66E-09 (130.5)	3.01E-11	2.98E-08
AP040K2CP7-LFO	3	3.00E-04 (153.0)	4.66E-09 (130.5)	2.85E-11	2.03E-08
ZDG01PSC-000-LFO	3	3.00E-04 (153.0)	4.66E-09 (130.5)	2.85E-11	2.03E-08
ZDG01PK18CA-LFO	3	3.00E-04 (153.0)	4.66E-09 (130.5)	2.85E-11	2.03E-08
1EK18ABCPS-LFO	3	3.00E-04 (153.0)	4.66E-09 (130.5)	2.85E-11	2.03E-08
CZ0G01F-S-UM	3	3.00E-04 (153.0)	4.66E-09 (130.5)	3.01E-11	2.98E-08
LAK3RBCB-R00-LFO	12	3.40E-03 ( 54.0)	4.31E-09 (134.0)	8.54E-13	2.09E-08
LPCI-PMS-CH	3	2.50E-03 ( 76.0)	4.27E-09 (135.5)	2.69E-11	2.70E-08
LPCI-BETA	3	1.10E-01 ( 15.5)	4.27E-09 (135.5)	2.69E-11	2.70E-08
1EB211YX-BC0-LF	5	7.20E-05 (188.5)	4.22E-09 (137.0)	1.98E-11	2.07E-08
DG2A-G-UM	2	6.00E-03 ( 46.5)	4.19E-09 (138.0)	7.75E-11	1.94E-08
DGHV03YC-MCC-LF	3	3.00E-04 (153.0)	4.08E-09 (140.0)	6.73E-11	1.28E-08
DGHV02YC-MCC-LF	3	3.00E-04 (153.0)	4.08E-09 (140.0)	6.73E-11	1.28E-08
DGHV01YC-MCC-LF	3	3.00E-04 (153.0)	4.08E-09 (140.0)	6.73E-11	1.28E-08
1EB16212-BC0	3	8.40E-05 (171.5)	3.05E-09 (142.5)	1.94E-11	1.63E-08
CCB20G1P-BC0-LF	3	8.40E-05 (171.5)	3.05E-09 (142.5)	1.94E-11	1.63E-08
RIOSP	1	2.10E-04 (168.0)	2.75E-09 (144.0)	1.28E-11	1.35E-08
1EB212YX-BC0-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
1EB36Y1X-BC0-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
1EB36XB-BC0-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
1EB36X3X-BC0-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
36X2R03X-BC0-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08

1EB2Y22X-BCO	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
1EB2Y14X-BCO	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
SEVB001X-BCO-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
DAVB002X-BCO-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
DAVB001X-BCO-LF	3	7.20E-05 (188.5)	2.61E-09 (149.5)	1.60E-11	1.52E-08
LPCI-MOV-BETA	2	3.00E-02 ( 17.5)	2.09E-09 (155.0)	1.11E-11	1.34E-08
RHRC003B-P-UUM	6	3.00E-03 ( 58.0)	1.90E-09 (156.0)	7.83E-13	2.55E-09
1EB16211-BCO	2	8.40E-05 (171.5)	1.87E-09 (157.0)	3.68E-12	6.94E-09
1EB35Y2X-BCO-LF	2	7.20E-05 (188.5)	1.61E-09 (160.5)	3.50E-12	5.89E-09
1EB1Y22X-BCO	2	7.20E-05 (188.5)	1.61E-09 (160.5)	3.50E-12	5.89E-09
1EB1Y13X-BCO	2	7.20E-05 (188.5)	1.61E-09 (160.5)	3.50E-12	5.89E-09
1EB235YA-BCO-LF	2	7.20E-05 (188.5)	1.61E-09 (160.5)	3.50E-12	5.89E-09
1EB235XA-BCO-LF	2	7.20E-05 (188.5)	1.61E-09 (160.5)	3.50E-12	5.89E-09
1EB235A-BCO-LF	2	7.20E-05 (188.5)	1.61E-09 (160.5)	3.50E-12	5.89E-09
DG2A-GEN-CC-FTS	1	3.70E-03 ( 51.0)	1.55E-09 (164.0)	3.10E-12	7.94E-09
LAK23BRC-ROO-LFO	1	2.00E-02 ( 31.0)	1.34E-09 (166.0)	1.18E-12	5.24E-09
NOFLOW-LCI-B7	1	1.00E+00 ( 3.0)	1.34E-09 (166.0)		
LC1F42CB-VCC-LF	1	4.80E-03 ( 49.0)	1.34E-09 (166.0)	1.18E-12	5.24E-09
LPCI-MOV-CM2	1	2.50E-03 ( 76.0)	1.05E-09 (168.5)	5.56E-12	6.69E-09
LPCI-MOV-CM1	1	2.50E-03 ( 76.0)	1.05E-09 (168.5)	5.56E-12	6.69E-09
1EB36YB-BCO-LF	1	7.20E-05 (188.5)	1.00E-09 (170.5)	9.19E-12	8.02E-09
1EB236B-BCO-LF	1	7.20E-05 (188.5)	1.00E-09 (170.5)	9.19E-12	8.02E-09
HCO01CB-BCO-LF	1	8.40E-05 (171.5)	9.37E-10 (173.0)	1.84E-12	3.47E-09
CCBC002-BCO-LF	1	8.40E-05 (171.5)	9.37E-10 (173.0)	1.84E-12	3.47E-09
CCB00G1P-BCO-LF	1	8.40E-05 (171.5)	9.37E-10 (173.0)	1.84E-12	3.47E-09
1EB1312X-BCO	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
SWVB001X-BCO-LF	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
2431B60X-BCO-LF	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
1EB1311X-BCO	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
1EB43C-BCO-LF	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
1EB1315X-BCO	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
DHVB002X-BCO-LF	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
DHVB001X-BCO-LF	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
1EB1313X-BCO	1	7.20E-05 (188.5)	8.04E-10 (179.0)	1.75E-12	2.95E-09
RACTK5-ROO-LFO	1	2.00E-02 ( 31.0)	4.61E-10 (185.0)	7.48E-13	1.25E-09
RACTK3-ROO-LFO	1	2.00E-02 ( 31.0)	4.61E-10 (185.0)	7.48E-13	1.25E-09
RACTK17-ROO-LFO	1	2.00E-02 ( 31.0)	4.61E-10 (185.0)	7.48E-13	1.25E-09
HCS0001X-STR	1	3.80E-05 (203.0)	4.24E-10 (187.0)	7.71E-13	9.47E-10
C00G01F-S-UUM	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.93E-13	5.65E-10
AP251X2CP4-LFOO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10
SWVY02AX-A-UUM	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.93E-13	5.65E-10
22C1AAX-A00-LFO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10
1EK18A18CP6-LFOO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10
1E433AAX-A00-LFO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10
HCSF015C-V-UUM	1	3.00E-04 (153.0)	2.38E-10 (194.5)	3.50E-13	5.96E-10
CSCD300-S-UUM	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.93E-13	5.65E-10
HCSF004C-V-UUM	1	3.00E-04 (153.0)	2.38E-10 (194.5)	3.50E-13	5.96E-10
HCSF001C-V-UUM	1	3.00E-04 (153.0)	2.38E-10 (194.5)	3.50E-13	5.96E-10
CSC02K18CP5-LFOO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10
1E4327NYCP2-LFOO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10
CC002SC-000-LFO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10
1E4327NACP2-LFOO	1	3.00E-04 (153.0)	2.38E-10 (194.5)	2.90E-13	7.57E-10

RA-2-3-1H  
HCSFD04C-VCC-CS

1	6.90E-03 ( 44.0)	2.07E-10 (202.5)	7.85E-14	7.77E-10
1	2.50E-03 ( 76.0)	2.07E-10 (202.5)	7.85E-14	7.77E-10

SEQUENCE T100  
RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		
				INCREASE	(RANK)	LOWER 5% UPPER 5%
DG000L-FMS-DM	9	2.50E-03	(76.0)	5.93E-03	(1.0)	9.20E-04 1.69E-02
DG0-GEN-LF-FTS	399	2.50E-02	(20.5)	1.73E-04	(2.0)	6.91E-06 8.63E-04
AP040X2-R00-LFO	317	2.00E-02	(31.0)	1.64E-04	(3.0)	1.61E-05 6.49E-04
DG000L-BETA	9	1.10E-01	(15.5)	1.20E-04	(4.0)	3.01E-06 5.60E-04
EE-C2D0G01F-PLG	55	7.20E-04	(97.0)	1.06E-04	(5.0)	1.76E-05 4.28E-04
DG2B-GEN-LF-FTS	296	2.50E-02	(29.5)	9.08E-05	(6.0)	5.59E-06 3.50E-04
RA-3-12-80M	4	3.50E-03	(53.0)	8.36E-05	(7.0)	1.11E-05 2.44E-04
DG2V02FX-KLN-LFB	25	5.80E-04	(103.0)	7.53E-05	(8.5)	6.27E-06 3.00E-04
C2D0G01F-PLG-LF	25	5.80E-04	(103.0)	7.25E-05	(10.0)	2.33E-06 3.91E-04
EE-C0D0G01F-PLG	30	7.20E-04	(97.0)	7.19E-05	(11.0)	1.74E-06 5.04E-04
1EB233A-BCC-LF	16	5.00E-04	(125.0)	7.18E-05	(12.5)	6.13E-06 3.12E-04
1EB425B-BCC-LF	21	5.00E-04	(125.0)	7.18E-05	(12.5)	6.13E-06 3.12E-04
1EB234B-BCC-LF	21	5.00E-04	(125.0)	7.16E-05	(14.0)	1.83E-06 3.77E-04
DG0-GEN-CC-FTS	64	3.70E-03	(51.0)	6.63E-05	(16.0)	3.97E-06 2.44E-04
C2D0G01P-FMS-LF	44	1.10E-03	(91.5)	6.76E-05	(15.0)	6.62E-06 3.16E-04
1E4327NY-R00-LFO	157	2.00E-02	(31.0)	6.54E-05	(17.0)	1.65E-06 3.62E-04
DG0-G-UJM	44	6.00E-03	(46.5)	6.48E-05	(18.0)	3.83E-06 2.37E-04
1E4327NY-R00-LFO	165	2.00E-02	(31.0)	6.32E-05	(19.5)	1.27E-06 3.60E-04
DG0V01FX-KLN-LFB	17	5.80E-04	(103.0)	6.32E-05	(19.5)	1.27E-06 3.60E-04
C0D0G01F-PLG-LF	17	5.80E-04	(103.0)	5.86E-05	(21.0)	2.29E-06 2.48E-04
1EB211YX-BCC-LF	5	7.20E-05	(188.5)	5.81E-05	(22.0)	4.96E-06 2.60E-04
AP039X2-R00-LFO	76	2.00E-02	(31.0)	5.69E-05	(24.0)	4.07E-06 2.43E-04
DG2V11YB-MCC-LF	12	3.00E-04	(153.0)	5.69E-05	(24.0)	4.07E-06 2.43E-04
DG2V10YB-M00-LF	12	3.00E-04	(153.0)	5.69E-05	(24.0)	4.07E-06 2.43E-04
DG2V09YB-MCC-LF	12	3.00E-04	(153.0)	5.69E-05	(24.0)	4.07E-06 2.43E-04
RA-B-1H	618	2.50E-01	(14.0)	5.68E-05	(26.0)	2.21E-06 2.67E-04
EE-C5CD300-PLG	24	7.20E-04	(97.0)	5.34E-05	(27.0)	3.38E-06 2.01E-04
DG2B-GEN-CC-FTS	45	3.70E-03	(51.0)	4.86E-05	(28.0)	1.70E-06 2.14E-04
DG2B-G-UJM	33	6.00E-03	(46.5)	4.34E-05	(29.0)	1.53E-06 1.74E-04
DG0V01FX-KLN-LFB	13	5.80E-04	(103.0)	4.27E-05	(30.5)	1.15E-06 1.71E-04
C5CD300-PLG-LF	13	5.80E-04	(103.0)	4.27E-05	(30.5)	1.15E-06 1.71E-04
1EB234B-BCC-CC	16	2.50E-03	(76.0)	4.16E-05	(33.5)	2.35E-06 2.33E-04
DG2V03CB-FMS-CC	16	2.50E-03	(76.0)	4.16E-05	(33.5)	2.35E-06 2.33E-04
SEVY03CB-FMS-CC	16	2.50E-03	(76.0)	4.16E-05	(33.5)	2.35E-06 2.33E-04
1E9425B-BCC-CC	16	2.50E-03	(76.0)	4.08E-05	(36.0)	2.26E-06 2.32E-04
C2D0G01P-FMS-CC	14	2.50E-03	(76.0)	4.08E-05	(37.0)	2.27E-06 2.32E-04
C2D0G01P-P-UJM	14	3.00E-03	(58.0)	3.97E-05	(40.5)	2.11E-06 1.84E-04
DG2V10YB-M-UJM	8	5.00E-04	(125.0)	3.97E-05	(40.5)	2.11E-06 1.84E-04
DG2V03CB-F-UJM	8	5.00E-04	(125.0)	3.97E-05	(40.5)	2.11E-06 1.84E-04
SEVY03CB-F-UJM	8	5.00E-04	(125.0)	3.97E-05	(40.5)	2.11E-06 1.84E-04
DG2V11YB-M-UJM	8	5.00E-04	(125.0)	3.97E-05	(40.5)	2.11E-06 1.84E-04
D52V09YB-M-UJM	8	5.00E-04	(125.0)	3.97E-05	(40.5)	2.11E-06 1.84E-04
ZD01K18-R00-LFO	8	5.00E-04	(125.0)	3.97E-05	(40.5)	2.11E-06 1.84E-04
DG2V03CB-FMS-LF	8	5.40E-04	(109.0)	3.97E-05	(44.5)	2.11E-06 1.84E-04
SEVY03CB-FMS-LF	8	5.40E-04	(109.0)	3.97E-05	(44.5)	2.11E-06 1.84E-04

1E618ARC-R00-LF0	8	5.80E-04 (103.0)	3.97E-05 ( 46.0)	2.11E-06	1.84E-04
SEVY03AX-ACX-LF1	8	8.40E-04 ( 94.5)	3.97E-05 ( 47.0)	2.11E-06	1.84E-04
DD0G01P-PMS-LF	19	1.10E-03 ( 91.5)	3.87E-05 ( 48.0)	9.70E-07	2.75E-04
RA-B-10H	518	2.00E-02 ( 31.0)	3.77E-05 ( 49.0)	3.06E-07	3.26E-04
1EB36Y1X-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
1EB36XB-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
1EB36X3X-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
36X2603X-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
DAV6001X-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
DAV6002X-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
1EB2Y14X-B00	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
1EB2Y22X-B00	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
SEV8001X-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
1EB212YX-B00-LF	3	7.20E-05 (188.5)	3.63E-05 ( 54.5)	1.65E-06	1.58E-04
1EB16212-B00	3	8.40E-05 (171.5)	3.63E-05 ( 60.5)	1.65E-06	1.58E-04
CCB20G1P-B00-LF	5	8.40E-05 (171.5)	3.63E-05 ( 60.5)	1.65E-06	1.58E-04
1EB413A-B00-LF	10	5.00E-04 (125.0)	3.59E-05 ( 62.5)	6.11E-07	2.67E-04
1EB412A-B00-LF	10	5.00E-04 (125.0)	3.59E-05 ( 62.5)	6.11E-07	2.67E-04
DG0V01CA-RUM-0	9	1.40E-03 ( 89.0)	3.40E-05 ( 64.0)	4.67E-07	2.64E-04
DG0V03YA-MCC-LF	5	3.00E-04 (153.0)	3.28E-05 ( 66.0)	3.32E-07	2.40E-04
DG0V01YA-MCC-LF	5	3.00E-04 (153.0)	3.28E-05 ( 66.0)	3.32E-07	2.40E-04
DG0V02YA-M00-LF	5	3.00E-04 (153.0)	3.28E-05 ( 66.0)	3.32E-07	2.40E-04
DAV-M00-COM-CC	8	2.50E-03 ( 76.0)	2.83E-05 ( 68.0)	1.95E-06	1.47E-04
1EB233A-B00-AS	9	2.50E-03 ( 76.0)	2.66E-05 ( 69.0)	6.10E-07	1.09E-04
1EB235YA-B00-LF	2	7.20E-05 (188.5)	2.23E-05 ( 72.5)	2.77E-07	8.07E-05
1EB35Y2X-B00-LF	2	7.20E-05 (188.5)	2.23E-05 ( 72.5)	2.77E-07	8.07E-05
1EB1Y13X-B00	2	7.20E-05 (188.5)	2.23E-05 ( 72.5)	2.77E-07	8.07E-05
1EB235XA-B00-LF	2	7.20E-05 (188.5)	2.23E-05 ( 72.5)	2.77E-07	8.07E-05
1EB1Y22X-B00	2	7.20E-05 (188.5)	2.23E-05 ( 72.5)	2.77E-07	8.07E-05
1EB235A-B00-LF	2	7.20E-05 (188.5)	2.23E-05 ( 72.5)	2.77E-07	8.07E-05
1EB16211-B00	2	8.40E-05 (171.5)	2.23E-05 ( 76.0)	2.77E-07	8.07E-05
HCSG001C-PMS-LF	18	1.10E-03 ( 91.5)	2.15E-05 ( 77.0)	1.55E-06	7.62E-05
DGD-GEN-LF-FTR	226	1.90E-02 ( 41.0)	1.98E-05 ( 78.0)	4.24E-07	9.92E-05
CSCG002-PMS-LF	15	1.10E-03 ( 91.5)	1.80E-05 ( 79.0)	8.27E-07	7.00E-05
DG-F1S-BETA	5	1.20E-02 ( 43.0)	1.76E-05 ( 80.0)	5.54E-07	7.31E-05
1EB4238-B00-LF	4	5.00E-04 (125.0)	1.61E-05 ( 81.5)	9.28E-07	9.94E-05
1EB4228-B00-LF	4	5.00E-04 (125.0)	1.61E-05 ( 81.5)	9.28E-07	9.94E-05
DG2A-GEN-LF-FTR	212	1.90E-02 ( 41.0)	1.61E-05 ( 83.0)	7.16E-07	5.87E-05
AP040X2CP7-LFOG	3	3.00E-04 (153.0)	1.55E-05 ( 86.5)	8.86E-07	9.31E-05
2G01PSC-000-LF0	3	3.00E-04 (153.0)	1.55E-05 ( 86.5)	8.86E-07	9.31E-05
1EK168CP6-LF00	3	3.00E-04 (153.0)	1.55E-05 ( 86.5)	8.86E-07	9.31E-05
2G01PK18CA-LF00	3	3.00E-04 (153.0)	1.55E-05 ( 86.5)	8.86E-07	9.31E-05
SEVY03AX-A-UBM	3	3.00E-04 (153.0)	1.55E-05 ( 86.5)	8.86E-07	9.31E-05
C2DGG01F-S-UAM	6	3.00E-04 (153.0)	1.54E-05 ( 91.5)	4.67E-07	6.30E-05
1EB433C-B00-LF	6	5.00E-04 (125.0)	1.54E-05 ( 91.5)	4.67E-07	6.30E-05
HCSF004C-VCC-LF	6	5.00E-04 (125.0)	1.54E-05 ( 91.5)	4.67E-07	6.30E-05
HCSF015C-VCC-LF	6	5.00E-04 (125.0)	1.54E-05 ( 91.5)	4.67E-07	6.30E-05
1EB432C-B00-LF	6	5.00E-04 (125.0)	1.54E-05 ( 91.5)	4.67E-07	6.30E-05
1EB412A-B00-CC	7	2.50E-03 ( 76.0)	1.48E-05 ( 95.5)	3.73E-07	5.72E-05
1EB413A-B00-CC	7	2.50E-03 ( 76.0)	1.48E-05 ( 95.5)	3.73E-07	5.72E-05
DG0V01CA-FMS-CC	7	2.50E-03 ( 76.0)	1.48E-05 ( 95.5)	3.73E-07	5.72E-05
D0V-M00-COM-CC	7	2.50E-03 ( 76.0)	1.48E-05 ( 95.5)	3.73E-07	5.72E-05

DG0V02YA-M-UUM	6	5.00E-04 (125.0)	1.45E-05 (99.5)	2.97E-07	5.71E-05
DG0V03YA-M-UUM	6	5.00E-04 (125.0)	1.45E-05 (99.5)	2.97E-07	5.71E-05
DG0V01YA-M-UUM	6	5.00E-04 (125.0)	1.45E-05 (99.5)	2.97E-07	5.71E-05
DG0V01CA-F-UUM	6	5.00E-04 (125.0)	1.45E-05 (99.5)	2.97E-07	5.71E-05
DG0V01CA-FMS-LF	6	5.40E-04 (109.0)	1.45E-05 (102.0)	2.97E-07	5.71E-05
C0DG01P-PMS-CC	6	2.50E-03 (76.0)	1.44E-05 (103.0)	2.97E-07	5.71E-05
C0DG01P-P-UUM	6	3.00E-03 (58.0)	1.44E-05 (104.0)	2.97E-07	5.71E-05
1E836YB-BCD-LF	1	7.20E-05 (188.5)	1.39E-05 (105.5)	7.06E-07	9.12E-05
1E6236B-BCD-LF	1	7.20E-05 (188.5)	1.39E-05 (105.5)	7.06E-07	9.12E-05
DGHV01CC-FMS-CC	7	2.50E-03 (76.0)	1.39E-05 (109.5)	3.71E-07	5.89E-05
SWVY02CC-FMS-CC	7	2.50E-03 (76.0)	1.39E-05 (109.5)	3.71E-07	5.89E-05
1E8433C-BOO-CC	7	2.50E-03 (76.0)	1.39E-05 (109.5)	3.71E-07	5.89E-05
1E8432C-BCC-CC	7	2.50E-03 (76.0)	1.39E-05 (109.5)	3.71E-07	5.89E-05
HCSC001C-PMS-CS	7	2.50E-03 (76.0)	1.39E-05 (109.5)	3.71E-07	5.89E-05
DH MOD-COM-CC	7	2.50E-03 (76.0)	1.39E-05 (109.5)	3.71E-07	5.89E-05
HCSC001C-P-UUM	7	3.00E-03 (58.0)	1.39E-05 (113.0)	3.70E-07	5.87E-05
DGHV03YC-MCC-LF	3	3.00E-04 (153.0)	1.36E-05 (115.0)	2.74E-07	4.46E-05
DGHV02YC-MOO-LF	3	3.00E-04 (153.0)	1.36E-05 (115.0)	2.74E-07	4.46E-05
DGHV01YC-MCC-LF	3	3.00E-04 (153.0)	1.36E-05 (115.0)	2.74E-07	4.46E-05
CSCC002-PMS-CC	6	2.50E-03 (76.0)	1.35E-05 (117.0)	2.96E-07	5.84E-05
CSCC002-P-UUM	6	3.00E-03 (58.0)	1.35E-05 (118.0)	2.96E-07	5.84E-05
DGHV01CC-F-UUM	4	5.00E-04 (125.0)	1.32E-05 (121.5)	2.95E-07	5.41E-05
SWVY02CC-F-UUM	4	5.00E-04 (125.0)	1.32E-05 (121.5)	2.95E-07	5.41E-05
CSC02K1B-BOO-LFO	4	5.00E-04 (125.0)	1.32E-05 (121.5)	2.95E-07	5.40E-05
DGHV03YC-M-UUM	4	5.00E-04 (125.0)	1.32E-05 (121.5)	2.95E-07	5.41E-05
DGHV02YC-M-UUM	4	5.00E-04 (125.0)	1.32E-05 (121.5)	2.95E-07	5.41E-05
DGHV01YC-M-UUM	4	5.00E-04 (125.0)	1.32E-05 (121.5)	2.95E-07	5.41E-05
SWVY02CC S-LF	4	5.40E-04 (109.0)	1.32E-05 (125.5)	2.95E-07	5.41E-05
DGHV01CC-FMS-LF	4	5.40E-04 (109.0)	1.32E-05 (125.5)	2.95E-07	5.41E-05
HACTK13CPS-LFCO	4	6.60E-04 (99.0)	1.32E-05 (127.0)	2.95E-07	5.41E-05
SWVY02AX-ACX-LFI	4	8.40E-04 (94.5)	1.32E-05 (128.0)	2.95E-07	5.41E-05
RLOSP	1	2.10E-04 (168.0)	1.31E-05 (129.0)	6.70E-08	6.66E-05
DG2B-GEN-LF-FTR	156	1.90E-02 (41.0)	1.21E-05 (130.0)	3.62E-07	3.54E-05
HCSD001X-STR	1	3.80E-05 (203.0)	1.12E-05 (131.0)	1.38E-07	4.04E-05
1E81312X-BCD	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
SWVB001X-BCD-LF	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
2431860X-BCD-LF	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
1E81311X-BCD	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
1E843C-BCD-LF	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
1E81315X-BCD	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
DHVB002X-BCD-LF	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
DHVB001X-BCD-LF	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
1E81313X-BCD	1	7.20E-05 (188.5)	1.12E-05 (136.0)	1.38E-07	4.04E-05
HC001CB-BCD-LF	1	8.40E-05 (171.5)	1.12E-05 (142.0)	1.38E-07	4.04E-05
CCBC002-BCD-LF	1	8.40E-05 (171.5)	1.12E-05 (142.0)	1.38E-07	4.04E-05
CCB00G1P-BCD-LF	1	8.40E-05 (171.5)	1.12E-05 (142.0)	1.38E-07	4.04E-05
DGO-GEN-CC-FTR	22	2.80E-03 (62.0)	9.59E-06 (144.0)	1.05E-07	4.36E-05
RC1C001X-TDP-LF	48	3.09E-02 (17.5)	9.44E-06 (145.0)	7.74E-07	5.34E-05
DG2A-GEN-CC-FTR	26	2.80E-03 (62.0)	8.82E-06 (146.0)	2.47E-07	3.31E-05
RA-1-3-1H	50	3.20E-03 (55.0)	8.44E-06 (147.0)	1.85E-08	1.61E-04
DGX-GEN-CM-FTS	5	2.50E-02 (20.5)	8.36E-06 (148.0)	2.04E-07	3.68E-05
CM-REGP-RC1C001X	6	2.50E-03 (76.0)	8.00E-06 (149.0)	6.13E-07	3.37E-05

DG2B-GEN-CC-FTR	16	2.80E-03	( 62.0)	6.81E-06	(150.0)	0.82E-06	2.38E-05
D0WB202X-BCO-LF	53	2.00E-02	( 31.0)	2.79E-06	(152.5)	9.61E-09	1.49E-05
D0WB201X-BCO-LF	53	2.00E-02	( 31.0)	2.79E-06	(152.5)	9.61E-09	1.49E-05
D0WB102X-BCO-LF	53	2.00E-02	( 31.0)	2.79E-06	(152.5)	9.61E-09	1.49E-05
D0WB101X-BCO-LF	53	2.00E-02	( 31.0)	2.79E-06	(152.5)	9.61E-09	1.49E-05
DIG2A-GEN-LF-FTS	24	2.50E-02	( 20.5)	1.73E-06	(155.0)	3.47E-08	8.18E-06
LPCI-PMS-DM	3	2.50E-03	( 76.0)	1.70E-06	(154.0)	5.53E-08	9.88E-06
HFT4ESC-QOC-LF	2	6.00E-03	( 46.5)	1.39E-06	(157.0)	5.44E-09	7.65E-06
LAK3BRCB-RCC-LFO	12	3.40E-03	( 54.0)	1.26E-06	(158.0)	4.56E-09	5.74E-06
ZE-MGP-PSM-SC-R	10	3.30E-01	( 12.0)	9.33E-07	(160.0)		
EE-MDC-1AS-CB-R	30	3.30E-01	( 12.0)	9.33E-07	(160.0)		
EE-MDC-1AS-AB-R	10	3.30E-01	( 12.0)	9.33E-07	(160.0)		
COO001F-S-UUM	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.20E-09	2.54E-06
AF251XZCP4-LFOO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
SMY02AX-A-UUM	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.20E-09	2.54E-06
Z2C1AAX-AOO-LFO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
1EK18A18CP6-LFOO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
1E433AAX-AOO-LFO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.20E-09	2.54E-06
HCSF015C-V-UUM	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.20E-09	2.54E-06
CSCD300-S-UUM	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.20E-09	2.54E-06
HCSF004C-V-UUM	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.20E-09	2.54E-06
HCSF001C-V-UUM	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
1E4327MKCP2-LFOO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
CSCG2K18CP5-LFOO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
CC002SC-000-LFO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
1E4327MKCP2-LFOO	1	3.00E-04	(153.0)	7.93E-07	(168.5)	5.19E-09	2.54E-06
DG2A-G-UUM	2	6.00E-03	( 46.5)	6.93E-07	(176.0)	1.63E-08	4.01E-06
RHC003B-P-UUM	6	3.00E-03	( 58.0)	6.32E-07	(177.0)	2.28E-09	1.87E-06
HACTK9-R00-LFO	20	2.00E-02	( 31.0)	4.62E-07	(178.0)	1.89E-09	1.69E-06
AP037K3-R00-LFO	14	2.00E-02	( 31.0)	4.44E-07	(179.0)	4.12E-10	2.52E-06
LPCI-MOV-DM2	1	2.50E-03	( 76.0)	4.17E-07	(180.5)	1.29E-08	3.82E-06
LPCI-MOV-DM1	1	2.50E-03	( 76.0)	4.17E-07	(180.5)	1.29E-08	3.82E-06
DG2A-GEN-CC-FTS	1	3.70E-03	( 51.0)	4.17E-07	(182.0)	3.06E-09	2.13E-06
RA-9-1H	459	9.30E-01	( 6.0)	3.88E-07	(183.0)	1.89E-09	2.73E-06
HACTK3-R00-LFO	12	2.00E-02	( 31.0)	3.09E-07	(184.0)	7.86E-10	1.05E-06
TSCD50PERCENT	1	5.00E-01	( 9.0)	2.89E-07	(185.0)		
LAK10RCA-R00-LFO	9	2.00E-02	( 31.0)	2.82E-07	(186.0)	2.71E-10	1.61E-06
LCLF42CB-VCC-LF	1	4.80E-03	( 49.0)	2.78E-07	(187.0)	2.00E-09	1.43E-06
RA-9-2H	518	8.70E-01	( 8.0)	1.15E-07	(188.0)	1.47E-10	6.45E-07
HCSF004C-VCC-ES	1	2.50E-03	( 76.0)	8.26E-08	(189.0)	1.78E-10	2.11E-07
LPCI-MOV-BETA	2	3.00E-02	( 17.5)	6.77E-08	(190.0)	5.72E-10	3.48E-07
LAK23BRC-R00-LFO	1	2.00E-02	( 31.0)	6.50E-08	(191.0)	3.41E-10	4.01E-07
OPFALL-REDPN-2DM	16	3.50E-01	( 10.0)	6.40E-08	(192.0)	1.19E-09	3.16E-07
LPCI-BETA	3	1.10E-01	( 15.5)	3.46E-08	(193.0)	3.01E-10	2.18E-07
RA-2-3-1H	1	6.90E-03	( 44.0)	2.98E-08	(194.0)	8.64E-11	1.11E-07
RACK5-R00-LFO	1	2.00E-02	( 31.0)	2.26E-08	(196.0)	1.91E-10	7.67E-08
RACK3-R00-LFO	1	2.00E-02	( 31.0)	2.26E-08	(196.0)	1.91E-10	7.67E-08
RACK17-R00-LFO	1	2.00E-02	( 31.0)	2.26E-08	(196.0)	1.91E-10	7.67E-08
RA-15-1H	2	9.10E-01	( 7.0)	2.11E-08	(198.0)	7.36E-11	7.44E-08
RCICRMCOOL-FLAG	948	1.00E+00	( 3.0)	0.00E+00	(201.0)		
RA-NONE	9	1.00E+00	( 3.0)	0.00E+00	(201.0)		
OPFALLS-RESPEN	123	1.00E+00	( 3.0)	0.00E+00	(201.0)		
NGFLOW-LCI-87	1	1.00E+00	( 3.0)	0.00E+00	(201.0)		
EE-CST-LVL	9	1.00E+00	( 3.0)	0.00E+00	(201.0)		



## SEQUENCE T100

## UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY			
			OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*	
1EB234B-BCC-CC	16	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
C2DG01P-PMS-CC	14	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
DG2V03CB-FMS-CC	16	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
SY-REGP-RC1C001X	6	2.50E-03 ( 75.0)	36.2	( 13.0)	3.23	0.83
D0V-MOD-COM-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
C0DG01P-PMS-CC	6	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
1EB432C-BCC-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
1EB425B-BCC-CC	16	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
1EB413A-B00-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
1EB433C-B00-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
1EB412A-BCC-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
DHV-MOD-COM-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
1EB233A-BCC-AS	9	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
LPCI-MOV-CM1	1	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
DGCOOL-PMS-CM	9	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
SEVY03CB-FMS-CC	16	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
LPCI-MOV-CM2	1	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
DGHV01CC-FMS-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
SWVY02CC-FMS-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
JAV-MOD-COM-CC	8	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
LPCI-PMS-CN	3	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
CSCC002-PMS-CC	6	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
HCSC001C-PMS-CS	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
DGOV01CA-FMS-CC	7	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
HCSF004C-VCC-CS	1	2.50E-03 ( 76.0)	36.2	( 13.0)	3.23	0.83
HACTK9-ROO-LFO	20	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
LAK23BRC-ROO-LFO	1	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
1E4327NY-ROO-LFO	167	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
RACK5-ROO-LFO	1	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
HACTK3-ROO-LFO	12	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
RACK3-ROO-LFO	1	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
1E4327NX-ROO-LFO	165	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
AP040X2-ROO-LFO	317	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
RACK17-ROO-LFO	1	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
LAK10RCA-ROO-LFO	9	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
AP039X2-ROO-LFO	76	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
AP037X3-ROO-LFO	14	2.00E-02 ( 31.0)	21.8	( 31.5)	1.78	0.99
CSC02K18-ROO-LFO	4	5.00E-04 (125.0)	21.3	( 38.5)	1.00	1.00
ZDG1PK18-ROO-LFO	8	5.00E-04 (125.0)	21.3	( 38.5)	1.00	1.00
1EK18ARC-ROO-LFO	8	5.80E-04 (103.0)	21.1	( 40.0)	1.00	1.00
LAK3BRCB-ROO-LFO	12	3.40E-03 ( 54.0)	20.9	( 41.0)	1.00	1.00
DG2A-GEN-LF-FTS	24	2.50E-02 ( 20.5)	6.7	( 43.5)	0.93	1.02
DG0-GEN-LF-FTS	399	2.50E-02 ( 20.5)	6.7	( 43.5)	0.93	1.02
DGX-GEN-CM-FTS	5	2.50E-02 ( 20.5)	6.7	( 43.5)	0.93	1.02
DG2B-GEN-LF-FTS	296	2.50E-02 ( 20.5)	6.7	( 43.5)	0.93	1.02

DGCOOL-BETA	9	1.10E-01	( 15.5)	4.9	( 46.5)	1.14	1.16
LPC1-RETA	3	1.10E-01	( 15.5)	4.9	( 46.5)	1.14	1.16
DG2B-GEN-LF-FTR	156	1.90E-02	( 41.0)	3.3	( 49.0)	1.11	0.97
DG0-GEN-LF-FTR	226	1.90E-02	( 41.0)	3.3	( 49.0)	1.11	0.97
DG2A-GEN-LF-FTR	212	1.90E-02	( 41.0)	3.3	( 49.0)	1.11	0.97
DGHV01CC-F-UUM	4	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DG2V11YB-M-UUM	8	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DG0V03YA-M-UUM	6	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
SWVY02CC-F-UUM	4	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DG2V09YB-M-UUM	8	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DGJV01YA-M-UUM	6	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DG2V10YB-M-UUM	8	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DG0V02YA-M-UUM	6	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DG2V03CB-F-UUM	6	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DG0V01CA-F-UUM	6	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
SEVY03CB-F-UUM	6	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DGHV03YC-M-UUM	4	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DGHV02YC-M-UUM	4	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
DGHV01YC-M-UUM	4	5.00E-04	(125.0)	3.1	( 57.5)	1.00	1.00
CCB00G1P-BCO-LF	1	8.40E-05	(171.5)	2.7	( 67.5)	1.00	1.00
CCB002-BCO-LF	1	8.40E-05	(171.5)	2.7	( 67.5)	1.00	1.00
1EB16212-BCO	3	8.40E-05	(171.5)	2.7	( 67.5)	1.00	1.00
1EB16211-BCO	2	8.40E-05	(171.5)	2.7	( 67.5)	1.00	1.00
HCO01CB-BCO-LF	1	8.40E-05	(171.5)	2.7	( 67.5)	1.00	1.00
CCB20G1P-BCO-LF	3	8.40E-05	(171.5)	2.7	( 67.5)	1.00	1.00
RA-8-1H	618	2.50E-01	( 14.0)	2.6	( 71.0)	0.90	0.97
RA-8-10H	518	2.00E-02	( 31.0)	2.6	( 72.0)	1.00	1.04
DG2V03CB-FMS-LF	8	5.40E-04	(109.0)	2.4	( 75.0)	1.00	1.00
SWVY02CC-FMS-LF	4	5.40E-04	(109.0)	2.4	( 75.0)	1.00	1.00
DG0V01CA-FMS-LF	6	5.40E-04	(109.0)	2.4	( 75.0)	1.00	1.00
SEVY03CB-FMS-LF	8	5.40E-04	(109.0)	2.4	( 75.0)	1.00	1.00
DGHV01CC-FMS-LF	4	5.40E-04	(109.0)	2.4	( 75.0)	1.00	1.00
1EB36YB-BCO-LF	1	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB212YX-BCO-LF	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB36Y1X-BCO-LF	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
DHV8002X-BCO-LF	1	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB1312X-BCO	1	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB36XB-BCO-LF	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB211YX-BCO-LF	5	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB36X3X-BCO-LF	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB43C-BCO-LF	1	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB1Y22X-BCO	2	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
36X28D3X-BCO-LF	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB35Y2X-BCO-LF	2	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
DAV8001X-BCO-LF	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB1Y13X-BCO	2	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
SWV8001X-BCO-LF	1	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
DAV8002X-BCO-LF	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB2Y14X-BCO	3	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB236B-BCO-LF	1	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB235YA-BCO-LF	2	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00
1EB1311X-BCO	1	7.20E-05	(188.5)	2.2	( 91.5)	1.00	1.00

1EB255XA-BCO-LF	2	7.20E-05 (188.5)	2.2	( 91.5)	1.00	1.00
1EB235A-BCO-LF	2	7.20E-05 (188.5)	2.2	( 91.5)	1.00	1.00
SEV8001X-BCO-LF	3	7.20E-05 (188.5)	2.2	( 91.5)	1.00	1.00
1EB1315X-BCO	1	7.20E-05 (188.5)	2.2	( 91.5)	1.00	1.00
1EB2Y22X-BCO	3	7.20E-05 (188.5)	2.2	( 91.5)	1.00	1.00
DHW8001X-BCO-LF	1	7.20E-05 (188.5)	2.2	( 91.5)	1.00	1.00
1EB1313X-BCO	1	7.20E-05 (188.5)	2.2	( 91.5)	1.00	1.00
2431860X-BCO-LF	1	7.20E-05 (188.5)	2.2	( 91.5)	1.01	1.01
COO601P-PMS-LF	19	1.10E-03 ( 91.5)	2.1	(107.5)	1.01	1.01
C5CC002-PMS-LF	15	1.10E-03 ( 91.5)	2.1	(107.5)	1.01	1.01
HCSC001C-PMS-LF	18	1.10E-03 ( 91.5)	2.1	(107.5)	1.01	1.01
C20G01P-PMS-LF	44	1.10E-03 ( 91.5)	2.1	(107.5)	1.01	1.01
C20G01F-PLG-LF	25	5.80E-04 (103.0)	2.1	(112.5)	1.01	1.01
COO601F-PLG-LF	17	5.80E-04 (103.0)	2.1	(112.5)	1.01	1.01
DIG2V02FX-KLM-LFB	25	5.80E-04 (103.0)	2.1	(112.5)	1.01	1.01
DIG0V01FX-KLM-LFB	17	5.80E-04 (103.0)	2.1	(112.5)	1.01	1.01
C5CO300-PLG-LF	13	5.80E-04 (103.0)	2.1	(112.5)	1.01	1.01
DGHV01FX-KLM-LFB	13	5.80E-04 (103.0)	2.1	(112.5)	1.01	1.01
D0VB202X-BCO-LF	53	2.00E-02 ( 31.0)	2.0	(117.5)	1.01	1.01
D0VB201X-BCO-LF	53	2.00E-02 ( 31.0)	2.0	(117.5)	1.01	1.01
D0VB102X-BCO-LF	53	2.00E-02 ( 31.0)	2.0	(117.5)	1.01	1.01
D0VB101X-BCO-LF	53	2.00E-02 ( 31.0)	2.0	(117.5)	1.01	1.01
RHRC003B-P-UUM	6	3.00E-03 ( 58.0)	1.9	(120.0)	1.00	1.00
1EB433C-BOO-LF	6	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB432C-BOC-LF	6	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB425B-BOC-LF	21	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB234B-BOC-LF	21	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB423B-BOO-LF	4	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB422B-BOC-LF	4	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB233A-BOC-LF	16	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB413A-BOO-LF	10	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
1EB412A-BOC-LF	10	5.00E-04 (125.0)	1.9	(125.0)	1.01	1.00
RA-1-3-1H	50	3.20E-03 ( 55.0)	1.8	(130.0)	1.00	1.01
RC1C001X-TOP-LF	48	3.00E-02 ( 17.5)	1.8	(131.0)	0.94	1.00
DG2B-G-UUM	33	6.00E-03 ( 46.5)	1.7	(133.5)	1.02	0.97
DG2A-G-UUM	2	6.00E-03 ( 46.5)	1.7	(133.5)	1.02	0.97
D60-G-UUM	44	6.00E-03 ( 46.5)	1.7	(133.5)	1.02	0.97
HF04C5C-QOC-LF	2	6.00E-03 ( 46.5)	1.7	(133.5)	1.00	1.00
DGOV01CA-PUM-D	9	1.40E-03 ( 89.0)	1.7	(136.0)	1.00	1.00
DG2V11YB-MCC-LF	12	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DG2V10YB-MOO-LF	12	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DG2V09YB-MCC-LF	12	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DGOV03YA-MCC-LF	5	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DGOV02YA-MOO-LF	5	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DGOV01YA-MCC-LF	5	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DGRV03YC-MCC-LF	3	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DGRV02YC-MOO-LF	3	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
DGRV01YC-MCC-LF	3	3.00E-04 (153.0)	1.6	(141.0)	1.00	1.00
LC1F42CB-MCC-LF	1	4.80E-03 ( 49.0)	1.6	(146.0)	1.00	1.00
COO601F-S-UUM	1	3.00E-04 (153.0)	1.4	(149.0)	1.00	1.00
SWYV02AK-A-UUM	1	3.00E-04 (153.0)	1.4	(149.0)	1.00	1.00
SEVY03AX-A-UUM	3	3.00E-04 (153.0)	1.4	(149.0)	1.00	1.00

CSC0300-S-UJM	1	3.00E-04	(153.0)	1.4	(149.0)	1.00
CZ0001F-S-UJM	3	3.00E-04	(153.0)	1.4	(149.0)	1.00
RA-3-12-BOM	4	3.50E-03	( 53.0)	1.4	(152.0)	0.99
DG2B-GEN-CC-FTS	45	3.70E-03	( 51.0)	1.4	(154.0)	0.99
DG2A-C-N-CC-FTS	1	3.70E-03	( 51.0)	1.4	(154.0)	0.99
DG0-GEN-CC-FTS	64	3.70E-03	( 51.0)	1.4	(154.0)	1.00
RA-15-1H	2	9.10E-01	( 7.0)	1.3	(156.0)	1.00
HCSF015-V-UJM	1	3.00E-04	(153.0)	1.2	(158.0)	1.00
HCSF004C-V-UJM	1	3.00E-04	(153.0)	1.2	(158.0)	1.00
HCSF001C-V-UJM	1	3.00E-04	(153.0)	1.2	(158.0)	1.00
OPFALL-REOPN-20M	16	3.50E-01	( 10.0)	1.2	(160.0)	1.00
HCSF015C-VCC-LF	6	5.00E-04	(125.0)	1.1	(161.5)	1.00
HCSF004C-VCC-LF	6	5.00E-04	(125.0)	1.1	(161.5)	1.00
RA-9-1H	469	9.30E-01	( 6.0)	1.1	(163.0)	1.00
RA-2-3-1H	1	6.90E-03	( 44.0)	0.8	(164.0)	1.00
C00G01P-P-UJM	6	3.00E-03	( 58.0)	0.0	(179.5)	1.00
AP251K2CP4-LFOO	1	3.70E-04	(153.0)	0.0	(179.5)	1.00
AP040X2EP7-LFOO	3	3.00E-04	(153.0)	0.0	(179.5)	1.00
DG2B-GEN-CC-FTR	16	2.80E-03	( 62.0)	0.0	(179.5)	1.00
DG2A-GEN-CC-FTR	26	2.80E-03	( 62.0)	0.0	(179.5)	1.00
Z0G01PSC-000-LFO	3	3.00E-04	(153.0)	0.0	(179.5)	1.00
SMVY02AK-ACX-L-1	4	8.40E-04	( 94.5)	0.0	(179.5)	1.00
Z0G01PK18CA-LFOO	3	3.00E-04	(153.0)	0.0	(179.5)	1.00
SEVY03AK-ACX-LF1	8	6.40E-04	( 94.5)	0.0	(179.5)	1.00
RLOSP	1	2.50E-04	(168.0)	0.0	(179.5)	1.00
Z2C1AAX-A00-LFO	1	3.00E-04	(153.0)	0.0	(179.5)	1.00
TEK10ABC06-LFOO	3	3.00E-04	(153.0)	0.0	(179.5)	1.00
RA-9-2H	518	8.70E-01	( 8.0)	0.0	(179.5)	1.00
DG0-GEN-CC-FTR	22	2.80E-03	( 62.0)	0.0	(179.5)	1.00
TEK18A18CP6-LFOO	1	3.00E-04	(153.0)	0.0	(179.5)	1.00
DG-FTS-BETA	5	1.20E-02	( 43.0)	0.0	(179.5)	1.00
TE433AAX-A00-LFO	1	3.00E-04	(153.0)	0.0	(179.5)	1.00
LPCI-MOV-BETA	2	3.00E-02	( 17.5)	0.0	(179.5)	1.00
HCS0001X-STR	1	3.80E-05	(203.0)	0.0	(179.5)	1.00
HCS0001C-P-UJM	7	3.64E-03	( 58.0)	0.0	(179.5)	1.00
CSC0002-P-UJM	6	3.00E-03	( 58.0)	0.0	(179.5)	1.00
HACTK13CP5-LFOO	4	6.60E-04	( 99.0)	0.0	(179.5)	1.00
CSC02K1CCPS-LFOO	1	3.00E-04	(153.0)	0.0	(179.5)	1.00
TE4327NXP2-LFOO	1	3.00E-04	(153.0)	0.0	(179.5)	1.00
EE-CSD300-PLG	24	7.20E-04	( 97.0)	0.0	(179.5)	1.00
EE-CZ001F-PLG	55	7.20E-04	( 97.0)	0.0	(179.5)	1.00
EE-C00G01F-PLG	30	7.20E-04	( 97.0)	0.0	(179.5)	1.00
CC0025C-000-LFO	1	3.00E-04	(153.0)	0.0	(179.5)	1.00
CZ0001P-P-UJM	14	3.00E-03	( 58.0)	0.0	(179.5)	1.00
TE4327NYCP2-LFOO	1	3.00E-04	(153.0)	0.0	(179.5)	1.00
15CDS50PERCENT	1	5.00E-01	( 9.0)	0.0	(179.5)	1.00
RC10RMCDOL-FLAG	94B	1.00E+00	( 3.0)	0.0	(179.5)	1.00
RA-NONE	9	1.00E+00	( 3.0)	0.0	(179.5)	1.00
OPFALLS-REDPEN	123	1.00E+00	( 3.0)	0.0	(179.5)	1.00
NOFLOW-LCI-B7	1	1.00E+00	( 3.0)	0.0	(179.5)	1.00
EE-MOP-PSW-BC-R	10	3.30E-01	( 12.0)	0.0	(179.5)	1.00
EE-MOC-IAS-CB-R	10	3.30E-01	( 12.0)	0.0	(179.5)	1.00
EE-MOC-IAS-AB-R	10	3.30E-01	( 12.0)	0.0	(179.5)	1.00
EE-CST-LVL	9	1.00E+00	( 3.0)	0.0	(179.5)	1.00

SEQUENCE T100

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT PDS-1-SEB8 WITH TOP EVENT FREQUENCY 2.14E-05

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	5	6.60E-06	0.30871	DGCOOL-BETA	* DGCOOL-PMS-CM	* IE-LOSP	* RA-8-1H	*
3					RCICRMCOOL-FLAG	*			*
4	2	5	6.60E-06	0.51742	DGCOOL-BETA	* DGCOOL-PMS-CM	* IE-LOSP	* OPFAILS-REOPEN	*
5					RA-8-1H	*			*
6	3	5	4.54E-07	0.63965	DGCOOL-BETA	* DGCOOL-PMS-CM	* EE-MDP-PSW-BC-R	* IE-T9A	*
7					RA-NONE	*			*
8	5	5	4.54E-07	0.65987	DGCOOL-BETA	* DGCOOL-PMS-CM	* EE-MDC-IAS-AB-R	* IE-T9A	*
9					RA-NONE	*			*
10	4	5	4.54E-07	0.68109	DGCOOL-BETA	* DGCOOL-PMS-CM	* EE-MDC-IAS-CB-R	* IE-T9A	*
11					RA-NONE	*			*
12	6	6	2.89E-07	0.69460	DGCOOL-BETA	* DGCOOL-PMS-CM	* IE-T5	* RA-3-12-80M	*
13					RCICRMCOOL-FLAG	* TSCDSSOPERCENT			*
14	8	7	2.79E-07	0.70765	AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
15					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
16	9	7	2.79E-07	0.72070	AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
17					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG		*
18	7	7	2.79E-07	0.73375	AP039X2-R00-LFO	* DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
19					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
20	10	7	2.23E-07	0.74419	1E4327NY-R00-LFO	* AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	*
21					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
22	15	7	2.23E-07	0.75463	1E4327NK-R00-LFO	* AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	*
23					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG		*
24	12	7	2.23E-07	0.76507	1E4327NK-R00-LFO	* AP039X2-R00-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	*
25					OPFAILS-REOPEN	* RA-8-1H	* DG-GEN-LF-FTS		*
26	13	7	2.23E-07	0.7551	1E4327NY-R00-LFO	* AP039X2-R00-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	*
27					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
28	14	7	2.23E-07	0.78595	1E4327NK-R00-LFO	* AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	*
29					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
30	11	7	2.23E-07	0.79639	1E4327NY-R00-LFO	* AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* IE-LOSP	*
31					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG		*
32	16	6	1.97E-07	0.80559	DG-FTS-BETA	* DGX-GEN-CM-FTS	* IE-LOSP	* RA-15-1H	*
33					RA-8-1H	* RCIC001X-TOP-LF			*
34	18	7	6.70E-08	0.86872	AP039X2-R00-LFO	* DG0-GEN-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
35					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
36	17	7	6.70E-08	0.81185	AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
37					RA-8-1H	* RA-9-1H	* RCIC001X-TOP-LF		*
38	19	7	6.70E-08	0.81698	AP040X2-R00-LFO	* DG0-GEN-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
39					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
40	22	7	6.70E-08	0.81811	AP040X2-R00-LFO	* DG0-C-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
41					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
42	21	7	6.70E-08	0.82125	AP039X2-R00-LFO	* DG0-G-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
43					OPFAILS-REOPEN	* RA-8-1H	* RA-9-1H		*
44	20	7	6.70E-08	0.82438	AP040X2-R00-LFO	* DG0-G-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
45					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG		*

46	24	6	5.76E-08	0.82707	1E4327NY-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	DG0-G-UUM	1E-LOSP
47					RA-8-1H	RCICRMCOOL-FLAG			
48	23	6	5.76E-08	0.82977	1E4327NX-R00-LFO	AP040X2-R00-LFO	AP040X2-R00-LFO	DG0-G-UUM	1E-LOSP
49					RA-8-1H	RCICRMCOOL-FLAG			
50	25	7	4.19E-08	0.83172	C20G01P-P-UUM	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
51					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
52	26	7	4.13E-08	0.83366	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTS	1E-LOSP
53					OPFALLS-REOPEN	RA-8-1H	RA-8-1H	RA-9-1H	
54	28	7	4.13E-08	0.83559	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTS	1E-LOSP
55					OPFALLS-REOPEN	RA-8-1H	RA-8-1H	RA-9-1H	
56	27	7	4.13E-08	0.83752	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTS	1E-LOSP
57					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
58	31	7	4.13E-08	0.83945	AP040X2-R00-LFO	DG0-GEN-CC-FTS	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTS	1E-LOSP
59					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
60	30	7	4.13E-08	0.84138	AP039X2-R00-LFO	DG0-GEN-CC-FTS	DG0-GEN-CC-FTS	RA-9-1H	1E-LOSP
61					OPFALLS-REOPEN	RA-8-1H	RA-8-1H	DG2B-GEN-LF-FTS	
62	29	7	4.13E-08	0.84331	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTS	1E-LOSP
63					OPFALLS-REOPEN	RA-8-1H	RA-8-1H	RA-9-1H	
64	32	7	3.49E-08	0.84494	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	RA-9-1H	1E-LOSP
65					1E8234B-BCC-CC	RA-8-1H	RA-8-1H	DG2B-GEN-LF-FTS	
66	33	7	3.49E-08	0.84657	RA-8-1H	RA-8-1H	RA-8-1H	RA-9-1H	1E-LOSP
67					C20G01P-PMS-CC	RA-8-1H	RA-8-1H	RA-9-1H	
68	36	7	3.49E-08	0.84821	RA-8-1H	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
69					DG0-GEN-LF-FTS	RA-8-1H	RA-8-1H	RA-9-1H	
70	37	7	3.49E-08	0.84984	RA-8-1H	RA-8-1H	RA-8-1H	RA-9-1H	1E-LOSP
71					DAV-MOD-COM-CC	RA-8-1H	RA-8-1H	RA-9-1H	
72	34	7	3.49E-08	0.85147	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
73					1E8425B-BCC-CC	RA-8-1H	RA-8-1H	RA-9-1H	
74	35	7	3.49E-08	0.85310	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
75					AP040X2-R00-LFO	RA-8-1H	RA-8-1H	RA-9-1H	
76	38	7	3.35E-08	0.85467	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	PCSC001C-P-UUM	1E-LOSP
77					AP040X2-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
78	42	7	3.35E-08	0.85623	RA-8-1H	CSCC002-P-UUM	CSCC002-P-UUM	RCICRMCOOL-FLAG	1E-LCSP
79					1E4327NX-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
80	40	7	3.35E-08	0.85780	RA-8-1H	C20G01P-P-UUM	C20G01P-P-UUM	DG0-GEN-LF-FTS	1E-LOSP
81					1E4327NY-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
82	39	7	3.35E-08	0.85736	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP
83					AP040X2-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
84	41	7	3.35E-08	0.86093	RA-8-1H	C00G01P-P-UUM	C00G01P-P-UUM	DG0-GEN-LF-FTS	1E-LOSP
85					1E4327NY-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
86	44	7	3.30E-08	0.86247	RA-8-1H	AP040X2-R00-LFO	AP040X2-R00-LFO	DG0-GEN-CC-FTS	1E-LDSP
87					1E4327NX-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
88	43	7	3.30E-08	1.86402	RA-8-1H	AP040X2-R00-LFO	AP040X2-R00-LFO	DG0-GEN-CC-FTS	1E-LOSP
89					AP040X2-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
90	46	7	2.79E-08	0.86533	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DAV-MOD-COM-CC	1E-LOSP
91					AP040X2-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
92	48	7	2.79E-08	0.86663	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	PCSC001C-PMS-CC	1E-LOSP
93					AP040X2-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
94	47	7	2.79E-08	0.86794	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	1E-LOSP
95					1E4327NY-R00-LFO	RA-8-1H	RA-8-1H	RCICRMCOOL-FLAG	
96	49	7	2.79E-08	0.86924	RA-8-1H	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
97								RCICRMCOOL-FLAG	

98	45	7	2.79E-08	0.87054	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	DG2V03CB-FMS-CC	1E-LOSP	*
99					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
100	52	7	2.79E-08	0.87185	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	SEVY02CC-FMS-CC	RA-8-1H	*
101					RA-9-1H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SEVY02CC-FMS-CC	RA-8-1H	*
102	51	7	2.79E-08	0.87315	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	SEVY03CB-FMS-CC	RA-8-1H	*
103					RA-9-1H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SEVY03CB-FMS-CC	RA-8-1H	*
104	50	7	2.79E-08	0.87446	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	SEVY03CB-FMS-CC	RA-8-1H	*
105					RA-9-1H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	SEVY03CB-FMS-CC	RA-8-1H	*
106	61	7	2.79E-08	0.87576	1E8413A-R00-CC	AP040X2-R00-LFO	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	1E-LOSP	*
107					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
108	62	7	2.79E-08	0.87707	AP040X2-R00-LFO	CSC002-FMS-CC	CSC002-FMS-CC	DG0-GEN-LF-FTS	1E-LOSP	*
109					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
110	60	7	2.79E-08	0.87837	1E4327NX-R00-LFO	1E8234B-BCC-CC	1E8234B-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
111					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
112	55	7	2.79E-08	0.87968	AP040X2-R00-LFO	C0D601P-FMS-CC	C0D601P-FMS-CC	DG2B-GEN-LF-FTS	1E-LOSP	*
113					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
114	57	7	2.79E-08	0.88098	AP040X2-R00-LFO	DG0V01CA-FMS-CC	DG0V01CA-FMS-CC	DG2B-GEN-LF-FTS	1E-LOSP	*
115					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
116	56	7	2.79E-08	0.88229	1E8412A-BCC-CC	AP040X2-R00-LFO	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	1E-LOSP	*
117					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
118	59	7	2.79E-08	0.88359	1E8433C-R00-CC	AP040X2-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP	*
119					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
120	53	7	2.79E-08	0.88490	1E4327NX-R00-LFO	C2D601P-FMS-CC	C2D601P-FMS-CC	DG0-GEN-LF-FTS	1E-LOSP	*
121					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
122	58	7	2.79E-08	0.88620	1E4327NY-R00-LFO	DAV-M00-COM-CC	DAV-M00-COM-CC	DG0-GEN-LF-FTS	1E-LOSP	*
123					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
124	63	7	2.79E-08	0.88751	1E8432C-BCC-CC	AP040X2-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP	*
125					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
126	54	7	2.79E-08	0.88881	1E4327NY-R00-LFO	1E8425B-BCC-CC	1E8425B-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
127					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
128	67	7	2.79E-08	0.89012	1E8233A-BCC-AS	AP040X2-R00-LFO	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	1E-LOSP	*
129					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
130	68	7	2.79E-08	0.89142	1E4327NY-R00-LFO	C2D601P-FMS-CC	C2D601P-FMS-CC	DG0-GEN-LF-FTS	1E-LOSP	*
131					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
132	65	7	2.79E-08	0.89273	AP040X2-R00-LFO	D0V-M00-COM-CC	D0V-M00-COM-CC	DG0-GEN-LF-FTS	1E-LOSP	*
133					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
134	66	7	2.79E-08	0.89403	1E4327NY-R00-LFO	1E8234B-BCC-CC	1E8234B-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
135					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
136	69	7	2.79E-08	0.89534	1E4327NX-R00-LFO	1E8425B-BCC-CC	1E8425B-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
137					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
138	64	7	2.79E-08	0.89664	1E8233A-BCC-AS	AP039X2-R00-LFO	AP039X2-R00-LFO	DG2B-GEN-LF-FTS	1E-LOSP	*
139					RA-8-1H	RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
140	70	7	1.98E-08	0.89757	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	*
141					RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG	1E-LOSP	*
142	71	6	1.64E-08	0.89834	DG-FTS-BETA	DGX-GEN-CH-FTS	DGX-GEN-CH-FTS	1E-LOSP	RA-15-1H	*
143					RA-8-1H	SY-REGP-RCIC001X	SY-REGP-RCIC001X	DG2B-GEN-LF-FTR	1E-LOSP	*
144	75	7	1.59E-08	0.89908	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	RA-9-2H	1E-LOSP	*
145					OPFAILS-REOPEN	RA-8-10H	RA-8-10H	DG2B-GEN-LF-FTR	1E-LOSP	*
146	76	7	1.59E-08	0.89982	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	RA-9-2H	1E-LOSP	*
147					OPFAILS-REOPEN	RA-8-10H	RA-8-10H	DG2A-GEN-LF-FTR	1E-LOSP	*
148	72	7	1.59E-08	0.90057	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP	*
149					RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG	1E-LOSP	*

150	73	7	1.59E-08	0.90131	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP
151					RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG	
152	74	7	1.59E-08	0.90205	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
153					RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG	
154	76	7	1.59E-07	1.90279	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
155					OPFALLS-REOPEN	RA-B-10H	RA-9-2H	
156	77	7	1.59E-08	1.90353	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
157					RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG	
158	79	7	1.59E-08	0.90428	AP039X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
159					OPFALLS-REOPEN	RA-B-10H	RA-9-2H	
160	80	7	1.56E-08	0.90501	AP040X2-R00-LFO	DG0V01CA-RUM-0	DG2B-GEN-LF-FTS	1E-LOSP
161					RA-B-1H	RA-9-1H	RCICRMCOOL-FLAG	
162	81	7	1.53E-08	0.90573	C20G01P-PMS-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
163					RA-B-1H	RA-9-1H	RCICRMCOOL-FLAG	
164	82	7	1.51E-08	0.90643	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
165					RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG	
166	83	7	1.51E-08	0.90714	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
167					1E-B-10H	RA-9-2H	RCICRMCOOL-FLAG	
168	85	6	1.34E-08	0.90775	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0V01CA-RUM-0	1E-LOSP
169					RA-B-1H	RCICRMCOOL-FLAG	DG0V01CA-RUM-0	
170	84	6	1.34E-08	0.90839	1E4327NX-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
171					RA-B-1H	RCICRMCOOL-FLAG	RA-9-2H	
172	91	7	1.27E-08	0.90899	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
173					OPFALLS-REOPEN	RA-B-10H	DG0-GEN-LF-FTR	
174	90	7	1.27E-08	0.90958	1E4327NX-R00-LFO	AP040X2-R00-LFO	RCICRMCOOL-FLAG	1E-LOSP
175					RA-B-10H	RA-9-2H	RA-9-2H	
176	87	7	1.27E-08	0.91017	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
177					OPFALLS-REOPEN	RA-B-10H	DG0-GEN-LF-FTR	
178	89	7	1.27E-08	0.91077	1E4327NX-R00-LFO	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
179					OPFALLS-REOPEN	RA-B-10H	RA-9-2H	
180	88	7	1.27E-08	0.91136	1E4327NY-R00-LFO	AP040X2-R00-LFO	RCICRMCOOL-FLAG	1E-LOSP
181					RA-B-10H	RA-9-2H	DG0-GEN-LF-FTR	
182	86	7	1.27E-08	0.91195	1E4327NY-R00-LFO	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
183					OPFALLS-REOPEN	RA-B-10H	RA-9-2H	
184	96	7	1.23E-08	0.91253	AP040X2-R00-LFO	CSC002-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP
185					RA-B-1H	RA-9-1H	RCICRMCOOL-FLAG	
186	92	7	1.23E-08	0.91310	AP040X2-R00-LFO	DG0-GEN-LF-FTS	HCSC001C-PMS-LF	1E-LOSP
187					RA-B-1H	RA-9-1H	RCICRMCOOL-FLAG	
188	94	7	1.23E-08	0.91368	AP040X2-R00-LFO	C00G01P-PMS-LF	DG2B-GEN-LF-FTS	1E-LOSP
189					RA-B-1H	RA-9-1H	RCICRMCOOL-FLAG	
190	93	7	1.23E-08	0.91425	1E4327NX-R00-LFO	C20G01P-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP
191					RA-B-1H	RA-9-1H	RCICRMCOOL-FLAG	
192	95	7	1.23E-08	0.91483	1E4327NY-R00-LFO	C20G01P-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP
193					RA-B-1H	RA-9-1H	RCICRMCOOL-FLAG	
194	99	7	1.21E-08	0.91539	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	1E-LOSP
195					RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG	
196	97	7	1.21E-08	0.91595	1E4327NX-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	1E-LOSP
197					RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG	
198	98	7	1.21E-08	0.91652	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
199					OPFALLS-REOPEN	RA-B-10H	RA-9-2H	
200	100	7	1.21E-08	0.91708	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
201					RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG	



202	101	7	1.21E-08	0.91765	AP039K2-R00-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
203					OPFALLS-REOPEN	* RA-8-10H	* RA-9-2H	* RA-8-1H
204	102	7	1.17E-08	0.91820	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	* RA-8-1H
205					RA-9-1H	* RCICRMCOOL-FLAG	* SEVY03AK-ACK-LFI	* IE-LOSP
206	103	7	1.15E-08	0.91873	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* RCICRMCOOL-FLAG	* IE-LOSP
207					RA-8-10H	* RA-9-2H	* CDDG01P-PMS-LF	* IE-LOSP
208	105	6	1.06E-08	0.91923	1E4327NK-R00-LFO	* AP040X2-R00-LFO	* CDDG01P-PMS-LF	* IE-LOSP
209					RA-8-1H	* RCICRMCOOL-FLAG	* CDDG01P-PMS-LF	* IE-LOSP
210	104	6	1.06E-08	0.91972	1E4327NK-R00-LFO	* AP040X2-R00-LFO	* CDDG01P-PMS-LF	* IE-LOSP
211					RA-8-1H	* RCICRMCOOL-FLAG	* DG2B-GEN-LF-FTS	* IE-LOSP
212	106	7	1.05E-08	0.92021	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* RCICRMCOOL-FLAG	* IE-LOSP
213					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	* IE-LOSP
214	107	7	1.06E-08	0.92068	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* RCICRMCOOL-FLAG	* IE-LOSP
215					RA-8-1H	* RA-9-1H	* DG2B-GEN-LF-FTS	* IE-LOSP
216	108	7	9.91E-09	0.92114	AP040X2-R00-LFO	* DGO-GEN-LF-FTS	* RCICRMCOOL-FLAG	* IE-LOSP
217					RA-8-1H	* RA-9-1H	* DG2B-GEN-LF-FTS	* IE-LOSP
218	109	7	9.91E-09	0.92161	AP040X2-R00-LFO	* DGO-GEN-LF-FTS	* RCICRMCOOL-FLAG	* IE-LOSP
219					RA-8-1H	* RA-9-1H	* DG2B-GEN-LF-FTS	* IE-LOSP
220	112	7	9.37E-09	0.92204	1E4327NK-R00-LFO	* DGO-GEN-LF-FTS	* RCICRMCOOL-FLAG	* IE-LOSP
221					RA-9-1H	* RCICRMCOOL-FLAG	* SEVY03AX-ACK-LFI	* RA-8-1H
222	111	7	9.37E-09	0.92248	1E4327NK-R00-LFO	* DGO-GEN-LF-FTS	* IE-LOSP	* RA-8-1H
223					RA-9-1H	* RCICRMCOOL-FLAG	* SEVY03AX-ACK-LFI	* RA-8-1H
224	110	7	9.37E-09	0.92292	AP040X2-R00-LFO	* DGO-GEN-LF-FTS	* SEVY03AX-ACK-LFI	* RA-8-1H
225					RA-9-1H	* RCICRMCOOL-FLAG	* SEVY03AX-ACK-LFI	* RA-8-1H
226	116	7	8.37E-09	0.92331	AP039K2-R00-LFO	* DGO-GEN-LF-FTS	* SWY02AK-ACK-LFI	* IE-LOSP
227					RA-8-1H	* RA-9-1H	* DG2B-GEN-LF-FTS	* IE-LOSP
228	114	7	8.37E-09	0.92370	AP040X2-R00-LFO	* DGO-GEN-LF-FTS	* RCIC001X-TDP-LF	* IE-LOSP
229					RA-8-1H	* RA-9-1H	* DG2B-GEN-LF-FTS	* IE-LOSP
230	115	7	8.37E-09	0.92410	1E4327NK-R00-LFO	* DGO-GEN-LF-FTS	* RCIC001X-TDP-LF	* IE-LOSP
231					RA-8-1H	* RA-9-1H	* DG2A-GEN-LF-FTS	* IE-LOSP
232	113	7	8.37E-09	0.92449	1E4327NK-R00-LFO	* DGO-GEN-LF-FTS	* RCIC001X-TDP-LF	* IE-LOSP
233					RA-8-1H	* RA-9-1H	* DG2A-GEN-LF-FTS	* IE-LOSP
234	117	7	8.09E-09	0.92487	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* RCIC001X-TDP-LF	* IE-LOSP
235					RA-8-1H	* RA-9-1H	* DG2V02FX-KLM-LFB	* IE-LOSP
236	118	7	8.09E-09	0.92524	1EK1BARC-R00-LFO	* DGO-GEN-LF-FTS	* RCICRMCOOL-FLAG	* IE-LOSP
237					RA-8-1H	* RA-9-1H	* DG2B-GEN-LF-FTS	* IE-LOSP
238	119	7	8.09E-09	0.92562	CDDG01F-PLG-LF	* DGO-GEN-LF-FTS	* RCICRMCOOL-FLAG	* IE-LOSP
239					RA-8-1H	* RA-9-1H	* DG2B-GEN-LF-FTS	* IE-LOSP
240	117	7	8.04E-09	0.92600	AP040X2-R00-LFO	* RA-9-1H	* RCICRMCOOL-FLAG	* IE-LOSP
241					RA-8-1H	* DGO-GEN-LF-FTS	* EE-CSCD300-PLG	* IE-LOSP
242	124	7	8.04E-09	0.92637	AP040X2-R00-LFO	* RA-9-1H	* RCICRMCOOL-FLAG	* IE-LOSP
243					OPFALLS-REOPEN	* DGO-GEN-LF-FTS	* EE-CSCD300-PLG	* IE-LOSP
244	126	7	8.04E-09	0.92675	AP039K2-R00-LFO	* DGO-GEN-LF-FTS	* RA-9-1H	* IE-LOSP
245					OPFALLS-REOPEN	* RA-8-1H	* RCICRMCOOL-FLAG	* IE-LOSP
246	125	7	8.04E-09	0.92713	AP040X2-R00-LFO	* DG2B-GEN-LF-FTS	* EE-CDDG01F-PLG	* IE-LOSP
247					OPFALLS-REOPEN	* RA-8-1H	* RA-9-1H	* IE-LOSP
248	123	7	8.04E-09	0.92750	AP040X2-R00-LFO	* DG2B-GEN-LF-FTS	* EE-CDDG01F-PLG	* IE-LOSP
249					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	* IE-LOSP
250	120	7	8.04E-09	0.92788	1E4327NK-R00-LFO	* DGO-GEN-LF-FTS	* EE-CDDG01F-PLG	* IE-LOSP
251					RA-8-1H	* RA-9-1H	* RCICRMCOOL-FLAG	* IE-LOSP
252	122	7	8.04E-09	0.92825	AP039K2-R00-LFO	* DGO-GEN-LF-FTS	* EE-CSCD300-PLG	* IE-LOSP
253					OPFALLS-REOPEN	* RA-8-1H	* RA-9-1H	* IE-LOSP

254	121	7	8.04E-09	0.92863	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	EE-C00G01F-PLG	1E-LOSP	*
255	128	7	7.53E-09	0.92898	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
256	129	7	7.53E-09	0.92933	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V03CB-FM-LF	1E-LOSP	*
257	130	7	7.53E-09	0.92968	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	RA-8-1H	*
258	133	7	6.98E-09	0.93000	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	SEVY03CB-FMS-LF	1E-LOSP	*
259	132	7	6.98E-09	0.93033	RA-8-1H	RA-9-1H	HACTK13CP5-LFCO	1E-LOSP	*
260	134	7	6.98E-09	0.93066	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP	*
261	131	7	6.98E-09	0.93098	RA-8-1H	RA-9-1H	DG2V10YB-M-UUM	1E-LOSP	*
262	135	7	6.98E-09	0.93131	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP	*
263	132	7	6.98E-09	0.93164	RA-8-1H	RA-9-1H	DG2V11YB-M-UUM	1E-LOSP	*
264	134	7	6.98E-09	0.93196	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP	*
265	131	7	6.98E-09	0.93098	RA-8-1H	RA-9-1H	DG2V03CB-F-UUM	1E-LOSP	*
266	135	7	6.98E-09	0.93131	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP	*
267	132	7	6.98E-09	0.93164	RA-8-1H	RA-9-1H	DG2V09YB-M-UUM	1E-LOSP	*
268	134	7	6.98E-09	0.93196	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMCOOL-FLAG	RA-8-1H	*
269	131	7	6.98E-09	0.93098	RA-8-1H	RA-9-1H	1E-LOSP	1E-LOSP	*
270	135	7	6.98E-09	0.93131	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	SEVY03CB-F-UUM	1E-LOSP	*
271	132	7	6.98E-09	0.93164	ZDG1PK1B-R00-LFO	RCICRMCOOL-FLAG	DG2B-GEN-LF-FTS	1E-LOSP	*
272	134	7	6.98E-09	0.93196	RA-8-1H	RA-9-1H	DG2B-GEN-LF-FTS	1E-LOSP	*
273	141	7	6.98E-09	0.93229	1EB425B-BCC-LF	DG0-GEN-LF-FTS	RA-9-1H	1E-LOSP	*
274	142	7	6.98E-09	0.93261	OPFAILS-REOPEN	RA-8-1H	DG2B-GEN-LF-FTS	1E-LOSP	*
275	143	7	6.98E-09	0.93294	1EB422B-BCC-LF	DG0-GEN-LF-FTS	RA-9-1H	1E-LOSP	*
276	137	7	6.98E-09	0.93261	OPFAILS-REOPEN	RA-8-1H	DG2B-GEN-LF-FTS	1E-LOSP	*
277	140	7	6.98E-09	0.93294	1EB234B-BCC-LF	DG0-GEN-LF-FTS	RA-9-1H	1E-LOSP	*
278	141	7	6.98E-09	0.93327	RA-8-1H	RA-9-1H	DG2B-GEN-LF-FTS	1E-LOSP	*
279	138	7	6.98E-09	0.93359	1EB425B-300-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
280	136	7	6.98E-09	0.93359	OPFAILS-REOPEN	RA-8-1H	RCICRMCOOL-FLAG	1E-LOSP	*
281	144	6	6.91E-09	0.93392	1EB425B-BCC-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	*
282	143	6	6.91E-09	0.93424	OPFAILS-REOPEN	RA-8-1H	RCICRMCOOL-FLAG	1E-LOSP	*
283	148	7	6.70E-09	0.93455	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	RA-9-1H	1E-LOSP	*
284	147	7	6.70E-09	0.93487	RA-8-1H	RA-9-1H	AP040X2-R00-LFO	1E-LOSP	*
285	146	7	6.70E-09	0.93512	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	AP040X2-R00-LFO	1E-LOSP	*
286	145	7	6.70E-09	0.93549	OPFAILS-REOPEN	RA-8-1H	AP039X2-R00-LFO	1E-LOSP	*
287	149	7	6.47E-09	0.93580	1E4327NY-R00-LFO	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP	*
288	152	7	6.47E-09	0.93610	RA-8-1H	RA-9-1H	DG2V02FX-KLN-LFB	1E-LOSP	*
289	150	7	6.47E-09	0.93640	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP	*
290	151	7	6.47E-09	0.93670	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG2V02FX-KLN-LFB	1E-LOSP	*
291	305				OPFAILS-REOPEN	RA-8-1H	DG2V01FX-KLN-LFB	1E-LOSP	*

306	153	7	6.47E-09	0.93701	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DGHV01FX-KLM-LFB	IE-LOSP
307					OPFAILS-REOPEN	RA-8-1H	RA-9-1H	
308	166	7	6.47E-09	0.93731	TE4327NY-R00-LFO	C20G01F-PLG-LF	DG0-GEN-LF-FTS	IE-LOSP
309					RA-8-1H	RA-9-1H	RA-9-1H	
310	165	7	6.47E-09	0.93761	AP040X2-R00-LFO	CSCD300-PLG-LF	DG0-GEN-LF-FTS	IE-LOSP
311					OPFAILS-REOPEN	RA-8-1H	RA-9-1H	
312	164	7	6.47E-09	0.93792	AP040X2-R00-LFO	DGHV01FX-KLM-LFB	DG2B-GEN-LF-FTS	IE-LOSP
313					RA-8-1H	RA-9-1H	RA-9-1H	
314	162	7	6.47E-09	0.93822	AP040X2-R00-LFO	DGHV01FX-KLM-LFB	RA-9-1H	IE-LOSP
315					OPFAILS-REOPEN	RA-8-1H	DG0-GEN-LF-FTS	IE-LOSP
316	161	7	6.47E-09	0.93952	TE4327NY-R00-LFO	C20G01F-PLG-LF	DG0-GEN-LF-FTS	IE-LOSP
317					RA-8-1H	RA-9-1H	RA-9-1H	
318	163	7	6.47E-09	0.93882	AP039X2-R00-LFO	CSCD300-PLG-LF	DG2B-GEN-LF-FTS	IE-LOSP
319					OPFAILS-REOPEN	RA-8-1H	RA-9-1H	
320	159	7	6.47E-09	0.93913	AP040X2-R00-LFO	C00G01F-PLG-LF	DG2B-GEN-LF-FTS	IE-LOSP
321					RA-8-1H	RA-9-1H	RA-9-1H	
322	157	7	6.47E-09	0.93943	AP040X2-R00-LFO	CSCD300-PLG-LF	DGHV01FX-KLM-LFB	IE-LOSP
323					RA-8-1H	RA-9-1H	DG0-GEN-LF-FTS	IE-LOSP
324	158	7	6.47E-09	0.93973	TE4327NY-R00-LFO	1E18ARC-R00-LFO	DG2B-GEN-LF-FTS	IE-LOSP
325					RA-8-1H	RA-9-1H	RA-9-1H	
326	155	7	6.47E-09	0.94003	AP039X2-R00-LFO	DGHV01FX-KLM-LFB	DG2B-GEN-LF-FTS	IE-LOSP
327					OPFAILS-REOPEN	RA-8-1H	RA-9-1H	
328	154	7	6.47E-09	0.94034	AP039X2-R00-LFO	C00G01F-PLG-LF	DG2B-GEN-LF-FTS	IE-LOSP
329					OPFAILS-REOPEN	RA-8-1H	RA-9-1H	
330	160	7	6.47E-09	0.94064	AP040X2-R00-LFO	C00G01F-PLG-LF	DG2B-GEN-LF-FTS	IE-LOSP
331					OPFAILS-REOPEN	RA-8-1H	RA-9-1H	
332	156	7	6.47E-09	0.94094	TE4327NY-R00-LFO	1E18ARC-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP
333					RA-8-1H	RA-9-1H	RA-9-1H	
334	167	7	6.11E-09	0.94123	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0-GEN-LF-FTS	IE-LOSP
335					RA-8-1H	RA-9-1H	RA-9-1H	
336	170	7	6.03E-09	0.94151	TE4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
337					RA-8-1H	RA-9-1H	RA-9-1H	
338	169	7	6.03E-09	0.94179	TE4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
339					RA-8-1H	RA-9-1H	RA-9-1H	
340	168	7	6.03E-09	0.94207	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
341					RA-8-1H	RA-9-1H	RA-9-1H	
342	174	7	6.03E-09	0.94236	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
343					RA-8-1H	RA-9-1H	RA-9-1H	
344	173	7	6.03E-09	0.94264	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
345					RA-8-1H	RA-9-1H	RA-9-1H	
346	172	7	6.03E-09	0.94292	TE4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
347					RA-8-1H	RA-9-1H	RA-9-1H	
348	171	7	6.03E-09	0.94320	TE4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
349					RA-8-1H	RA-9-1H	RA-9-1H	
350	205	7	5.58E-09	0.94346	TE4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
351					RA-8-1H	RA-9-1H	RA-9-1H	
352	204	7	5.58E-09	0.94377	TE4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IE-LOSP
353					RA-8-1H	RA-9-1H	RA-9-1H	
354	202	7	5.58E-09	0.94399	TEB235A-BCC-LF	AP039X2-R00-LFO	DG2B-GEN-LF-FTS	IE-LOSP
355					RA-8-1H	RA-9-1H	RA-9-1H	
356	201	7	5.58E-09	0.94425	AP040X2-R00-LFO	DGHV02YA-M-UUM	DG2B-GEN-LF-FTS	IE-LOSP
357					RA-8-1H	RA-9-1H	RA-9-1H	

358	203	7	5.58E-09	0.94451	1E4327NY-R00-LFO	1E8425B-BCC-LF	DG0-GEN-LF-FTS	1E-LOSP
359					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
360	198	7	5.58E-09	0.94477	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0V01YC-M-UUM	1E-LOSP
361					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
362	197	7	5.58E-09	0.94503	1E4327NX-R00-LFO	2G01PK18-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP
363					RA-9-1H	RA-9-1H	RCICRMCOOL-F-UM	
364	196	7	5.58E-09	0.94529	1E8412A-BCC-LF	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	1E-LOSP
365					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
366	195	7	5.58E-09	0.94555	AP040X2-R00-LFO	CSC02K18-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP
367					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
368	188	7	5.58E-09	0.94581	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2V03CB-F-UUM	1E-LOSP
369					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
370	189	7	5.58E-09	0.94607	1E8413A-B00-LF	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	1E-LOSP
371					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
372	194	7	5.58E-09	0.94633	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG2V09Y8-M-UUM	1E-LOSP
373					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
374	191		5.58E-09	0.94660	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DCS6004C-VCC-LF	1E-LOSP
375					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
376	190	7	5.58E-09	0.94686	1E8333A-BCC-LF	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	1E-LOSP
377					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
378	194	7	5.58E-09	0.94712	1E4327NY-R00-LFO	1E8234B-BCC-LF	DG0-GEN-LF-FTS	1E-LOSP
379					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
380	193	7	5.58E-09	0.94738	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2V09Y8-M-UUM	1E-LOSP
381					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
382	185	7	5.58E-09	0.94764	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG2V10Y8-M-UUM	1E-LOSP
383					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
384	187	7	5.58E-09	0.94790	1E4327NX-R00-LFO	1E8425B-BCC-LF	DG0-GEN-LF-FTS	1E-LOSP
385					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
386	186	7	5.58E-09	0.94816	1E8332C-BCC-LF	AP040X2-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP
387					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
388	184	7	5.58E-09	0.94842	1E4327NY-R00-LFO	2G01PK18-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP
389					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
390	182	7	5.58E-09	0.94868	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2V10Y8-M-UUM	1E-LOSP
391					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
392	200	7	5.58E-09	0.94894	AP040X2-R00-LFO	DG0V03YA-M-UUM	DG2B-GEN-LF-FTS	1E-LOSP
393					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
394	183	7	5.58E-09	0.94921	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0V01CC-F-UUM	1E-LOSP
395					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
396	199	7	5.58E-09	0.94947	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0V02YC-M-UUM	1E-LOSP
397					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
398	180	8	5.58E-09	0.94973	AP040X2-R00-LFO	DG0-GEN-LF-FTS	EE-CST-LVL	H.L.V.15C-VCC-LF
399					1E-LOSP	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
400	178	7	5.58E-09	0.94999	1E8333C-B00-LF	AP040X2-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP
401					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
402	176	7	5.58E-09	0.95025	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG2V03CB-F-UUM	1E-LOSP
403					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
404	177	7	5.58E-09	0.95051	AP040X2-R00-LFO	DG0V01CA-F-UUM	DG2B-GEN-LF-FTS	1E-LOSP
405					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
406	175	7	5.58E-09	0.95077	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG2V11Y8-M-UUM	1E-LOSP
407					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	
408	179	7	5.58E-09	0.95103	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG0V03YC-M-UUM	1E-LOSP
409					RA-9-1H	RA-9-1H	RCICRMCOOL-FLAG	

410	181	7	5.58E-09	0.95129	AP040X2-ROO-LFO	*	DG0V01YA-M-UUM	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
411					RA-8-1H	*	RA-9-1H	*	RCICRMCOOL-FLA	+		
412	208	7	5.58E-09	0.95155	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTS	*	IE-LOSP	*	RA-8-1H	*
413					RA-9-1H	*	RCICRMCOOL-FLAG	+	SEVY03CB-F-UUM	+		
414	207	7	5.58E-09	0.95182	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTS	*	IE-LOSP	*	RA-8-1H	*
415					RA-9-1H	*	RCICRMCOOL-FLAG	+	SEVY03CB-F-UUM	+		
416	206	7	5.58E-09	0.95208	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	IE-LOSP	*	RA-8-1H	*
417					RA-9-1H	*	RCICRMCOOL-FLAG	+	SWVY02CC-F-UUM	+		
418	210	6	5.57E-09	0.95234	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	C0DG01F-PLG-LF	*	IE-LOSP	*
419					RA-8-1H	*	RCICRMCOOL-FLAG	+				
420	211	6	5.57E-09	0.95260	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V01FX-KLN-LFB	*	IE-LOSP	*
421					RA-8-1H	*	RCICRMCOOL-FLAG	+				
422	209	6	5.57E-09	0.95286	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	C0DG01F-PLG-LF	*	IE-LOSP	*
423					RA-8-1H	*	RCICRMCOOL-FLAG	+				
424	212	6	5.57E-09	0.95312	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V01FX-KLN-LFB	*	IE-LOSP	*
425					RA-8-1H	*	RCICRMCOOL-FLAG	+				
426	213	7	5.37E-09	0.95337	C2DG01P-PMS-LF	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
427					OPFAIL-REOPN-20M	*	RA-8-1H	*	RA-9-1H	*		
428	220	6	4.80E-09	0.95359	1E4327NX-ROO-LFO	*	1EB412A-BCC-LF	*	AP040X2-ROO-LFO	*	IE-LOSP	*
429					RA-8-1H	*	RCICRMCOOL-FLAG	+				
430	215	6	4.80E-09	0.95382	1E4327NX-ROO-LFO	*	1EB233A-JCC-LF	*	AP040X2-ROO-LFO	*	IE-LOSP	*
431					RA-8-1H	*	RCICRMCOOL-FLAG	+				
432	216	6	4.80E-09	0.95404	1E4327NY-ROO-LFO	*	1EB412A-BCC-LF	*	AP040X2-ROO-LFO	*	IE-LOSP	*
433					RA-8-1H	*	RCICRMCOOL-FLAG	+				
434	221	6	4.80E-09	0.95427	1E4327NY-ROO-LFO	*	1EB413A-BCC-LF	*	AP040X2-ROO-LFO	*	IE-LOSP	*
435					RA-8-1H	*	RCICRMCOOL-FLAG	+				
436	218	6	4.80E-09	0.95449	1E4327NY-ROO-LFO	*	1EB233A-JCC-LF	*	AP040X2-ROO-LFO	*	IE-LOSP	*
437					RA-8-1H	*	RCICRMCOOL-FLAG	+				
438	217	6	4.80E-09	0.95472	1E4327NX-ROO-LFO	*	1EB233A-JCC-LF	*	AP039X2-ROO-LFO	*	IE-LOSP	*
439					RA-8-1H	*	RCICRMCOOL-FLAG	+				
440	219	6	4.80E-09	0.95494	1E4327NX-ROO-LFO	*	1EB413A-BCC-LF	*	AP040X2-ROO-LFO	*	IE-LOSP	*
441					RA-8-1H	*	RCICRMCOOL-FLAG	+				
442	214	6	4.80E-09	0.95517	1E4327NY-ROO-LFO	*	1EB233A-BCC-LF	*	AP039X2-ROO-LFO	*	IE-LOSP	*
443					RA-8-1H	*	RCICRMCOOL-FLAG	+				
444	224	7	4.76E-09	0.95539	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	HFD4CSC-QOC-LF	*	IE-LOSP	*
445					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		
446	222	7	4.76E-09	0.95561	DG0-G-UUM	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
447					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		
448	223	7	4.76E-09	0.95583	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	DG2B-G-UUM	*	IE-LOSP	*
449					RA-8-10H	*	RA-9-2H	*	RCICRMCOOL-FLAG	+		
450	230	8	4.46E-09	0.95604	AP040X2-ROO-LFO	*	D0VB102X-BCO-LF	*	D0VB202X-BCO-LF	*	DG2B-GEN-LF-FTS	*
451					IE-LOSP	*	OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*
452	228	8	4.46E-09	0.95625	AP040X2-ROO-LFO	*	D0VB101X-BCO-LF	*	D0VB201X-BCO-LF	*	DG2B-GEN-LF-FTS	*
453					IE-LOSP	*	OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*
454	227	8	4.46E-09	0.95646	AP039X2-ROO-LFO	*	D0VB101X-BCO-LF	*	D0VB201X-BCO-LF	*	DG2B-GEN-LF-FTS	*
455					IE-LOSP	*	OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*
456	225	8	4.46E-09	0.95667	AP039X2-ROO-LFO	*	D0VB102X-BCO-LF	*	D0VB202X-BCO-LF	*	DG2B-GEN-LF-FTS	*
457					IE-LOSP	*	OPFAILS-REOPEN	*	RA-8-1H	*	RA-9-1H	*
458	229	8	4.46E-09	0.95688	AP040X2-ROO-LFO	*	D0VB101X-BCO-LF	*	D0VB201X-BCO-LF	*	DG2B-GEN-LF-FTS	*
459					IE-LOSP	*	RA-8-1H	*	RA-9-1H	*	RCICRMCOOL-FLAG	+
460	226	8	4.46E-09	0.95709	AP040X2-ROO-LFO	*	D0VB102X-BCO-LF	*	D0VB202X-BCO-LF	*	DG2B-GEN-LF-FTS	*
461					IE-LOSP	*	RA-8-1H	*	RA-9-1H	*	RCICRMCOOL-FLAG	+

462	231	7	4.19E-09	0.95728	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	IF-LOSP	RA-B-1H
463	238	7	4.19E-09	0.95748	RA-9-1H	RCICRMCOOL-FLAG	RCICRMCOOL-FLAG	1E-LOSP
464	237	7	4.19E-09	0.95767	C2D601F-S-UUM	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
465	236	7	4.19E-09	0.95787	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
466	232	7	4.19E-09	0.95807	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP
467	233	7	4.19E-09	0.95826	1E18ABCP6-LF00	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
468	234	7	4.19E-09	0.95846	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
469	239	7	4.19E-09	0.95865	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V09YB-MCC-LF	1E-LOSP
470	235	7	4.19E-09	0.95885	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
471	250	7	3.84E-09	0.95903	DG01PSC-000-LF0	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
472	245	7	3.84E-09	0.95921	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
473	249	7	3.84E-09	0.95939	AP040X2CP7-LF00	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
474	247	7	3.84E-09	0.95957	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
475	248	7	3.84E-09	0.95975	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V11YB-MCC-LF	1E-LOSP
476	240	7	3.84E-09	0.95993	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
477	491	7	3.84E-09	0.96011	ZD601PK1BCA-LF00	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
478	492	7	3.84E-09	0.96028	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
479	493	7	3.84E-09	0.96046	RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	1E-LOSP
480	494	7	3.84E-09	0.96064	1E4327NX-ROO-LF0	AP040X2-ROO-LF0	DG2B-GEN-LF-FTS	1E-LOSP
481	495	7	3.84E-09	0.96082	1E-LOSP	RA-8-1H	RA-9-1H	1E-LOSP
482	496	7	3.84E-09	0.96100	1E4327NY-ROO-LF0	AP040X2-ROO-LF0	DG2B-GEN-LF-FTS	1E-LOSP
483	497	7	3.84E-09	0.96118	1E-LOSP	RA-8-1H	RA-9-1H	1E-LOSP
484	498	7	3.84E-09	0.96136	1E4327NY-ROO-LF0	AP040X2-ROO-LF0	DG2B-GEN-LF-FTS	1E-LOSP
485	500	7	3.84E-09	0.96154	1E-LOSP	RA-8-1H	RA-9-1H	1E-LOSP
486	501	7	3.84E-09	0.96172	1E4327NY-ROO-LF0	AP040X2-ROO-LF0	DG2B-GEN-LF-FTS	1E-LOSP
487	502	7	3.84E-09	0.96190	1E-LOSP	RA-8-1H	RA-9-1H	1E-LOSP
488	503	7	3.84E-09	0.96100	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCICRMCOOL-FLAG	1E-LOSP
489	504	7	3.84E-09	0.96118	LPCI-PMS-CM	RA-8-1H	RA-9-1H	1E-LOSP
490	505	7	3.84E-09	0.96136	AP039X2-ROO-LF0	DG0-GEN-LF-FTR	DG2B-G-UUM	1E-LOSP
491	506	7	3.84E-09	0.96154	OPFAILS-REOPEN	RA-8-10H	RA-9-2H	1E-LOSP
492	507	7	3.84E-09	0.96172	AP040X2-ROO-LF0	DG0-GEN-LF-FTR	DG2B-G-UUM	1E-LOSP
493	508	7	3.84E-09	0.96190	RA-8-10H	PA-9-2H	RCICRMCOOL-FLAG	1E-LOSP
494	509	7	3.84E-09	0.96172	AP040X2-ROO-LF0	DG0-GEN-LF-FTR	DG2B-G-UUM	1E-LOSP
495	510	7	3.84E-09	0.96190	OPFAILS-REOPEN	RA-8-10H	DG2A-GEN-LF-FTR	1E-LOSP
496	511	7	3.84E-09	0.96190	1E4327NY-ROO-LF0	DG0-G-UUM	DG2A-GEN-LF-FTR	1E-LOSP
497	512	7	3.84E-09	0.96190	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	1E-LOSP
498	513	7	3.84E-09	0.96190	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	1E-LOSP

514	258	7	3.81E-09	0.96207	AP040X2-ROO-LFO	* DGO-G-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
515					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	+	*
516	257	7	3.81E-09	0.96225	1E4327NX-ROO-LFO	* DGO-G-UUM	* DG2A-GEN-LF-FTR	* IE-LOSP	*
517					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
518	256	7	3.81E-09	0.96243	AP039X2-ROO-LFO	* DGO-G-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
519					OPFAILS-REOPEN	* RA-8-10H	* RA-9-2H	+	*
520	259	7	3.81E-09	0.96261	AP040X2-ROO-LFO	* DGO-G-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
521					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
522	271	7	3.68E-09	0.96278	C2DG01P-PMS-LF	* DGO-G-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
523					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
524	262	7	3.68E-09	0.96295	C2DG01P-PMS-LF	* DGO-G7N-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
525					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
526	265	7	3.62E-09	0.96312	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* HF04CSC-QOC-LF	* IE-LOSP	*
527					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
528	264	7	3.62E-09	0.96329	DGO-G-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
529					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
530	263	7	3.62E-09	0.96346	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-G-UUM	* IE-LOSP	*
531					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
532	266	7	3.52E-09	0.96362	DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* EE-C2DG01F-PLG	IE-LOSP	*
533					OPFAIL-REOPN-20M	* RA-8-1H	* RA-9-1H	+	*
534	274	7	3.35E-09	0.96378	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V09YB-MCC-LF	IE-LOSP	*
535					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
536	275	7	3.35E-09	0.96394	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DGHV01YC-MCC-LF	* IE-LOSP	*
537					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
538	271	7	3.35E-09	0.96409	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DGHV02YC-MOD-LF	* IE-LOSP	*
539					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
540	272	7	3.35E-09	0.96425	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V11YB-MCC-LF	* IE-LOSP	*
541					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
542	273	7	3.35E-09	0.96441	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V10YB-MOD-LF	* IE-LOSP	*
543					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
544	269	7	3.35E-09	0.96456	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V11YB-MCC-LF	* IE-LOSP	*
545					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
546	270	7	3.35E-09	0.96472	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V10YB-MOD-LF	* IE-LOSP	*
547					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
548	267	7	3.35E-09	0.96488	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DGHV03YC-MCC-LF	* IE-LOSP	*
549					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
550	268	7	3.35E-09	0.96503	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V09YB-MCC-LF	* IE-LOSP	*
551					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
552	278	7	3.35E-09	0.96519	AP040X2-ROO-LFO	* DGOV01YA-MCC-LF	* DG2P-GEN-LF-FTS	* IE-LOSP	*
553					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
554	277	7	3.35E-09	0.96535	AP040X2-ROO-LFO	* DGOV02YA-MOD-LF	* DG2B-GEN-LF-FTS	* IE-LOSP	*
555					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
556	276	7	3.35E-09	0.96550	AP040X2-ROO-LFO	* DGOV03YA-MCC-LF	* DG2B-GEN-LF-FTS	* IE-LOSP	*
557					RA-8-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	+	*
558	279	7	2.94E-09	0.96564	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP	*
559					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
560	280	7	2.94E-09	0.96579	DGO-GEN-CC-FTS	* DG2A-GEN-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP	*
561					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
562	281	7	2.92E-09	0.96591	DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTS	* IE-LOSP	*
563					RA-8-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	+	*
564	287	6	2.88E-09	0.96605	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* DGOV02YA-MOD-LF	* IE-LOSP	*
565					RA-8-1H	* RC1CRMCOOL-FLAG	+	*	

566	286	6	2.88E-09	0.96618	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V03YA-MCC-LF	*	IE-LOSP	*
567					RA-8-1H	*	RC1CRMCOOL-FLAG	+				
568	283	6	2.88E-09	0.96632	1E4327NY-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V01YA-MCC-LF	*	IE-LOSP	*
569					RA-8-1H	*	RC1CRMCOOL-FLAG	+				
570	284	6	2.88E-09	0.96645	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V02YA-MCC-LF	*	IE-LOSP	*
571					RA-8-1H	*	RC1CRMCOOL-FLAG	+				
572	282	6	2.88E-09	0.96659	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V01YA-MCC-LF	*	IE-LOSP	*
573					RA-8-1H	*	RC1CRMCOOL-FLAG	+				
574	285	6	2.88E-09	0.96672	1E4327NX-ROO-LFO	*	AP040X2-ROO-LFO	*	DG0V03YA-MCC-LF	*	IE-LOSP	*
575					RA-8-1H	*	RC1CRMCOOL-FLAG	+				
576	288	7	2.83E-09	0.96686	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	DG2V02FX-KLN-LFB	*	IE-LOSP	*
577					OPFA71-REOPN-20M	*	RA-8-1H	*	RA-9-1H	+		
578	289	7	2.83E-09	0.96699	C2DG01F-PLG-LF	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
579					OPFAIL-REOPN-20M	*	RA-8-1H	*	RA-9-1H	+		
580	290	7	2.81E-09	0.96712	1E4327NX-ROO-LFO	*	DG0-GEN-LF-FTS	*	EE-C2DG01F-PLG	*	IE-LOSP	*
581					OPFAIL-REOPN-20M	*	RA-8-1H	*	RA-9-1H	+		
582	291	7	2.81E-09	0.96725	1E4327NY-ROO-LFO	*	DG0-GEN-LF-FTS	*	EE-C2DG01F-PLG	*	IE-LOSP	*
583					OPFAIL-REOPN-20M	*	RA-8-1H	*	RA-9-1H	+		
584	292	8	2.75E-09	0.96738	AP040X2-ROO-LFO	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-T1	*
585					RA-8-1H	*	RA-9-1H	*	RC1CRMCOOL-FLAG	*	RLOSP	+
586	295	7	2.51E-09	0.96750	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTS	*	DG2B-G-UUM	*	IE-LOSP	*
587					RA-8-1H	*	RA-9-1H	*	RC1C001X-TDP-LF	+		
588	294	7	2.51E-09	0.96761	DG0-GEN-LF-FTS	*	DG2A-G-UUM	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
589					RA-8-1H	*	RA-9-1H	*	RC1C001X-TDP-LF	+		
590	293	7	2.51E-09	0.96773	DG0-G-UUM	*	DG2A-GEN-LF-FTS	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
591					RA-8-1H	*	RA-9-1H	*	RC1C001X-TDP-LF	+		
592	297	7	2.41E-09	0.96784	DG0-G-UUM	*	DG2B-GEN-LF-FTS	*	EE-C2DG01F-PLG	*	IE-LOSP	*
593					RA-8-1H	*	RA-9-1H	*	RC1CRMCOOL-FLAG	+		
594	296	7	2.41E-09	0.96796	DG0-GEN-LF-FTS	*	DG2B-G-UUM	*	EE-C2DG01F-PLG	*	IE-LOSP	*
595					RA-8-1H	*	RA-9-1H	*	RC1CRMCOOL-FLAG	+		
596	299	7	2.38E-09	0.96807	CSCC002-P-UUM	*	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	IE-LOSP	*
597					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
598	298	7	2.38E-09	0.96818	C2DG01P-P-UUM	*	DG0-GEN-LF-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*
599					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
600	302	7	2.38E-09	0.96829	C2DG01P-P-UUM	*	DG0-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
601					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
602	301	7	2.38E-09	0.96840	C0DG01P-P-UUM	*	DG2A-GEN-LF-FTR	*	DG2B-GEN-LF-FTS	*	IE-LOSP	*
603					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
604	300	7	2.38E-09	0.96851	DG0-GEN-LF-FTS	*	DG2A-GEN-LF-FTR	*	HCSC001C-P-UUM	*	IE-LOSP	*
605					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
606	308	7	2.35E-09	0.96862	AP040X2-ROO-LFO	*	DG0-GEN-CC-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*
607					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
608	305	7	2.35E-09	0.96873	AP040X2-ROO-LFO	*	DG0-GEN-CC-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*
609					OPFAILS-REOPEN	*	RA-8-10H	*	RA-9-2H	+		
610	304	7	2.35E-09	0.96884	1E4327NX-ROO-LFO	*	DG0-GEN-CC-FTS	*	DG2A-GEN-LF-FTR	*	IE-LOSP	*
611					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		
612	303	7	2.35E-09	0.96895	AP039X2-ROO-LFO	*	DG0-GEN-LF-FTR	*	DG2B-GEN-CC-FTS	*	IE-LOSP	*
613					OPFAILS-REOPEN	*	RA-8-10H	*	RA-9-2H	+		
614	306	7	2.35E-09	0.96906	AP039X2-ROO-LFO	*	DG0-GEN-CC-FTS	*	DG2B-GEN-LF-FTR	*	IE-LOSP	*
615					OPFAILS-REOPEN	*	RA-8-10H	*	RA-9-2H	+		
616	309	7	2.35E-09	0.96917	AP040X2-ROO-LFO	*	DG0-GEN-L-FTR	*	DG2B-GEN-CC-FTS	*	IE-LOSP	*
617					RA-8-10H	*	RA-9-2H	*	RC1CRMCOOL-FLAG	+		



618	307	7	2.35E-09	0.96928	1E4327NY-ROO-LFO	* DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
619					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
620	310	7	2.35E-09	0.96939	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
621					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	*	*
622	318	7	2.34E-09	0.96950	AP039X2-ROO-LFO	* DGO-GEN-CC-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
623					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	*	*
624	317	7	2.34E-09	0.96961	AP040X2-ROO-LFO	* DGO-GEN-CC-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
625					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
626	316	7	2.34E-09	0.96972	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-CC-FTR	* 1E-LOSP	*
627					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
628	315	7	2.34E-09	0.96983	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* 1E-LOSP	*
629					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
630	314	7	2.34E-09	0.96994	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* 1E-LOSP	*
631					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
632	313	7	2.34E-09	0.97005	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-CC-FTR	* 1E-LOSP	*
633					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	*	*
634	312	7	2.34E-09	0.97016	AP040X2-ROO-LFO	* DGO-GEN-CC-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
635					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	*	*
636	311	7	2.34E-09	0.97027	AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-CC-FTR	* 1E-LOSP	*
637					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H	*	*
638	320	7	2.27E-09	0.97037	C2DGO1P-PMS-LF	* DGO-GEN-LF-FTS	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
639					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	*	*
640	319	7	2.27E-09	0.97048	C2DGO1P-PMS-LF	* DGO-GEN-CC-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
641					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG	*	*
642	322	7	2.27E-09	0.97059	1E4327NY-HOO-LFO	* DGO-GEN-LF-FTS	* DG2V02FX-KLN-LFB	* 1E-LOSP	*
643					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	*	*
644	321	7	2.27E-09	0.97069	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTS	* DG2V02FX-KLN-LFB	* 1E-LOSP	*
645					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	*	*
646	324	7	2.27E-09	0.97080	1E4327NX-ROO-LFO	* C2DGO1F-PLG-LF	* DGO-GEN-LF-FTS	* 1E-LOSP	*
647					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	*	*
648	323	7	2.27E-09	0.97090	1E4327NY-ROO-LFO	* C2DGO1F-PLG-LF	* DGO-GEN-LF-FTS	* 1E-LOSP	*
649					OPFAIL-REOPN-20M	* RA-B-1H	* RA-9-1H	*	*
650	326	7	2.23E-09	0.97101	DGO-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
651					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
652	325	7	2.23E-09	0.97111	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
653					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
654	327	7	2.22E-09	0.97122	DGO-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
655					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
656	330	7	2.22E-09	0.97132	DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
657					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
658	329	7	2.22E-09	0.97142	DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
659					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
660	328	7	2.22E-09	0.97153	DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTR	* 1E-LOSP	*
661					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG	*	*
662	334	6	2.07E-09	0.97163	AP040X2-ROO-LFO	* DG2B-G-UUM	* EE-CDDG01F-PLG	* 1E-LOSP	*
663					RA-B-1H	* RC1CRMCOOL-FLAG	*	*	*
664	333	6	2.07E-09	0.97172	1E4327NX-ROO-LFO	* DGO-G-UUM	* EE-C2DGO1F-PLG	* 1E-LOSP	*
665					RA-B-1H	* RC1CRMCOOL-FLAG	*	*	*
666	332	6	2.07E-09	0.97182	AP040X2-ROO-LFO	* DGO-G-UUM	* EE-CSCD300-PLG	* 1E-LOSP	*
667					RA-B-1H	* RC1CRMCOOL-FLAG	*	*	*
668	331	6	2.07E-09	0.97192	1E4327NY-ROO-LFO	* DGO-G-UUM	* EE-C2DGO1F-PLG	* 1E-LOSP	*
669					RA-B-1H	* RC1CRMCOOL-FLAG	*	*	*

670	341	7	1.98E-09	0.97201	DAV-MOD-COM-CC	* DGD-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP
671	340	7	1.98E-09	0.97210	RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	* 1E-LOSP
672	339	7	1.98E-09	0.97219	1E8433C-800-CC	* DGD-GEN-LF-FTS	* RCICRMCOOL-FLAG	* 1E-LOSP
673	338	7	1.98E-09	0.97229	RA-B-10H	* DGD-GEN-LF-FTS	* RCICRMCOOL-FLAG	* 1E-LOSP
674	337	7	1.98E-09	0.97238	1E8425B-800-CC	* RA-9-2H	* RCICRMCOOL-FLAG	* 1E-LOSP
675	336	7	1.98E-09	0.97247	RA-B-10H	* DGD-GEN-LF-FTS	* RCICRMCOOL-FLAG	* 1E-LOSP
676	335	7	1.98E-09	0.97257	CSC002-PMS-CC	* RA-9-2H	* RCICRMCOOL-FLAG	* 1E-LOSP
677	344	7	1.98E-09	0.97266	1E8432--800-CC	* DGD-GEN-LF-FTS	* RCICRMCOOL-FLAG	* 1E-LOSP
678	343	7	1.98E-09	0.97275	RA-B-10H	* DGD-GEN-LF-FTS	* RCICRMCOOL-FLAG	* 1E-LOSP
679	342	7	1.98E-09	0.97284	RA-B-10H	* RCICRMCOOL-FLAG	* SEY03CB-FMS-CC	* RA-B-10H
680	358	7	1.98E-09	0.97294	C2D001P-PMS-CC	* DGD-GEN-LF-FTS	* SEY03CB-FMS-CC	* RA-B-10H
681	357	7	1.98E-09	0.97303	1E8234B-800-CC	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
682	356	7	1.98E-09	0.97312	RA-B-10H	* DGD-GEN-LF-FTS	* SEY03CB-FMS-CC	* RA-B-10H
683	355	7	1.98E-09	0.97322	DGD-GEN-LF-FTR	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
684	354	7	1.98E-09	0.97331	DGD-GEN-LF-FTS	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
685	353	7	1.98E-09	0.97340	RA-9-2H	* RCICRMCOOL-FLAG	* SEY03CB-FMS-CC	* RA-B-10H
686	352	7	1.98E-09	0.97349	DGD-GEN-LF-FTS	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
687	351	7	1.98E-09	0.97359	1E8233A-800-AS	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
688	350	7	1.98E-09	0.97368	RA-B-10H	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
689	349	7	1.98E-09	0.97377	DGD-GEN-LF-FTR	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
690	348	7	1.98E-09	0.97387	RA-B-10H	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
691	347	7	1.98E-09	0.97396	1E8234B-800-CC	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
692	346	7	1.98E-09	0.97405	RA-B-10H	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
693	345	7	1.98E-09	0.97414	DGD-GEN-LF-FTR	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
694	344	7	1.98E-09	0.97424	1E8433A-800-CC	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
695	343	7	1.98E-09	0.97433	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
696	342	7	1.98E-09	0.97443	DGD-GEN-LF-FTR	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
697	341	7	1.98E-09	0.97453	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
698	340	7	1.98E-09	0.97463	1E8425B-800-CC	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
699	339	7	1.98E-09	0.97473	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
700	338	7	1.98E-09	0.97483	DGD-GEN-LF-FTR	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
701	337	7	1.98E-09	0.97493	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
702	336	7	1.98E-09	0.97503	1E8234B-800-CC	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
703	335	7	1.98E-09	0.97513	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
704	334	7	1.98E-09	0.97523	DGD-GEN-LF-FTR	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
705	333	7	1.98E-09	0.97533	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
706	332	7	1.98E-09	0.97543	1E8425B-800-CC	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
707	331	7	1.98E-09	0.97553	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
708	330	7	1.98E-09	0.97563	DGD-GEN-LF-FTR	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
709	329	7	1.98E-09	0.97573	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
710	328	7	1.98E-09	0.97583	1E8233A-800-AS	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
711	327	7	1.98E-09	0.97593	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
712	326	7	1.98E-09	0.97603	DGD-GEN-LF-FTR	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
713	325	7	1.98E-09	0.97613	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
714	324	7	1.98E-09	0.97623	1E8433A-800-CC	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
715	323	7	1.98E-09	0.97633	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
716	322	7	1.98E-09	0.97643	DGD-GEN-LF-FTR	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
717	321	7	1.98E-09	0.97653	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
718	320	7	1.98E-09	0.97663	1E8425B-800-CC	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
719	319	7	1.98E-09	0.97673	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H
720	318	7	1.98E-09	0.97683	DGD-GEN-LF-FTR	* DGD-GEN-LF-FTR	* SEY03CB-FMS-CC	* RA-B-10H
721	317	7	1.98E-09	0.97693	RA-B-10H	* RA-9-2H	* SEY03CB-FMS-CC	* RA-B-10H

722	362	7	1.94E-09	0.97442	C2D601F-PLG-LF	* DGO-GEN-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
723					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
724	361	7	1.94E-09	0.97451	DGO-G-UUM	* DG2B-GEN-LF-FTS	* DG2V02FX-KLN-LFB	* IE-LOSP	*
725					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
726	360	7	1.94E-09	0.97460	DGO-GEN-LF-FTS	* DG2B-G-UUM	* DG2V02FX-KLN-LFB	* IE-LOSP	*
727					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
728	364	7	1.90E-09	0.97469	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP	*
729					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
730	370	7	1.90E-09	0.97478	1E4327NX-ROO-LFO	* C0D601P-P-UUM	* DG2A-GEN-LF-FTR	* IE-LOSP	*
731					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
732	369	7	1.90E-09	0.97487	1E4327NY-ROO-LFO	* C2D601P-P-UUM	* DGO-GEN-LF-FTR	* IE-LOSP	*
733					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
734	368	7	1.90E-09	0.97496	AP040X2-ROO-LFO	* CSCC002-P-UUM	* DGO-GEN-LF-FTR	* IE-LOSP	*
735					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
736	367	7	1.90E-09	0.97505	1E4327NY-ROO-LFO	* C0D601P-P-UUM	* DG2A-GEN-LF-FTR	* IE-LOSP	*
737					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
738	366	7	1.90E-09	0.97513	AP040X2-ROO-LFO	* C0D601P-P-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
739					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
740	365	7	1.90E-09	0.97522	1E4327NX-ROO-LFO	* C2D601P-P-UUM	* DGO-GEN-LF-FTR	* IE-LOSP	*
741					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
742	372	7	1.87E-09	0.97531	1E4327NX-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
743					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
744	371	7	1.87E-09	0.97540	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-CC-FTR	* IE-LOSP	*
745					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
746	376	7	1.82E-09	0.97548	1E4327NY-ROO-LFO	* C2D601P-PMS-LF	* DGO-GEN-CC-FTS	* IE-LOSP	*
747					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
748	375	7	1.82E-09	0.97557	AP040X2-ROO-LFO	* C0D601P-PMS-LF	* DG2B-GEN-CC-FTS	* IE-LOSP	*
749					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
750	374	7	1.82E-09	0.97565	AP040X2-ROO-LFO	* CSCC002-PMS-LF	* DGO-GEN-CC-FTS	* IE-LOSP	*
751					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
752	373	7	1.82E-09	0.97574	1E4327NX-ROO-LFO	* C2D601P-PMS-LF	* DGO-GEN-CC-FTS	* IE-LOSP	*
753					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
754	377	7	1.82E-09	0.97582	AP040X2-ROO-LFO	* DGO-GEN-CC-FTS	* HCSC001C-PMS-LF	* IE-LOSP	*
755					RA-B-1H	* RA-9-1H	* RC1CRMCOOL-FLAG		
756	381	7	1.81E-09	0.97591	C2D601P-P-UUM	* DGO-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
757					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
758	380	7	1.81E-09	0.97599	C0D601P-P-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
759					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
760	379	7	1.81E-09	0.97608	CSCC002-P-UUM	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP	*
761					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
762	378	7	1.81E-09	0.97616	DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* HCSC001C-P-UUM	* IE-LOSP	*
763					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
764	391	7	1.78E-09	0.97624	1E4327NY-ROO-LFO	* DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP	*
765					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
766	390	7	1.78E-09	0.97633	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTR	* IE-LOSP	*
767					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
768	388	7	1.78E-09	0.97641	1E4327NX-ROO-LFO	* DGO-GEN-CC-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP	*
769					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		
770	386	7	1.78E-09	0.97649	AP040X2-ROO-LFO	* DGO-GEN-CC-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
771					OPFAILS-REOPEN	* RA-B-10H	* RA-9-2H		
772	385	7	1.78E-09	0.97658	1E4327NX-ROO-LFO	* DGO-GEN-LF-FTR	* DG2A-GEN-CC-FTR	* IE-LOSP	*
773					RA-B-10H	* RA-9-2H	* RC1CRMCOOL-FLAG		

774	384	7	1.78E-09	0.97666	AP039X2-800-LFO	D60-GEN-LF-FTR	D62B-GEN-CC-FTR	1E-LOSP
775					OPFAILS-REOPEN	RA-9-2H		
776	383	7	1.78E-09	0.97674	AP040X2-800-LFO	D60-GEN-CC-FTR	D62B-GEN-LF-FTR	1E-LOSP
777					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
778	382	7	1.78E-09	0.97683	AP040X2-800-LFO	D60-GEN-LF-FTR	D62B-GEN-CC-FTR	1E-LOSP
779					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
780	387	7	1.78E-09	0.97691	AP039X2-800-LFO	D60-GEN-CC-FTR	D62B-GEN-LF-FTR	1E-LOSP
781					OPFAILS-REOPEN	RA-8-10H		
782	389	7	1.79E-09	0.97699	AP040X2-800-LFO	D60-GEN-LF-FTR	D62B-GEN-CC-FTR	1E-LOSP
783					OPFAILS-REOPEN	RA-8-10H	RA-9-2H	
784	394	7	1.69E-09	0.97707	D60-GEN-LF-FTR	D62A-GEN-LF-FTR	D62B-GEN-CC-FTR	1E-LOSP
785					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
786	393	7	1.69E-09	0.97715	D60-GEN-CC-FTR	D62A-GEN-LF-FTR	D62B-GEN-LF-FTR	1E-LOSP
787					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
788	392	7	1.69E-09	0.97723	D60-GEN-LF-FTR	D62A-GEN-CC-FTR	D62B-GEN-LF-FTR	1E-LOSP
789					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	
790	399	7	1.67E-09	0.97731	1E82548-8CC-LF	D60-GEN-LF-FTR	D62B-GEN-LF-FTR	1E-LOSP
791					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	
792	398	7	1.67E-09	0.97739	1E82348-8CC-LF	D60-GEN-UM	D62B-GEN-LF-FTR	1E-LOSP
793					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	
794	397	7	1.67E-09	0.97747	1E84258-8CC-LF	D60-GEN-UM	D62B-GEN-LF-FTR	1E-LOSP
795					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	
796	396	7	1.67E-09	0.97754	1E84258-8CC-LF	D60-GEN-LF-FTR	D62B-GEN-UM	1E-LOSP
797					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	
798	395	7	1.67E-09	0.97762	1E82334-8CC-LF	D62A-GEN-UM	D62B-GEN-LF-FTR	1E-LOSP
799					RA-8-1H	RA-9-1H	RCICRMCOOL-FLAG	
800	407	6	1.67E-09	0.97770	AP040X2-800-LFO	C00G01F-PLG-LF	D62B-GEN-UM	1E-LOSP
801					RA-8-1H	RCICRMCOOL-FLAG		
802	406	6	1.67E-09	0.97778	AP040X2-800-LFO	C50C300-PLG-LF	D60-GEN-UM	1E-LOSP
803					RA-8-1H	RCICRMCOOL-FLAG		
804	405	6	1.67E-09	0.97786	AP040X2-800-LFO	D60V01FX-KLN-LFB	D62B-GEN-UM	1E-LOSP
805					RA-8-1H	RCICRMCOOL-FLAG		
806	404	6	1.67E-09	0.97793	1E4327N4-800-LFO	C20G01F-PLG-LF	D60-GEN-UM	1E-LOSP
807					RA-8-1H	RCICRMCOOL-FLAG		
808	403	6	1.67E-09	0.97801	1E4327N4-800-LFO	RCICRMCOOL-FLAG	D62V02FX-KLN-LFB	1E-LOSP
809					RA-8-1H	RCICRMCOOL-FLAG		
810	402	6	1.67E-09	0.97809	1E4327N4-800-LFO	C20G01F-PLG-LF	D60-GEN-UM	1E-LOSP
811					RA-8-1H	RCICRMCOOL-FLAG		
812	401	6	1.67E-09	0.97817	AP040X2-800-LFO	D60-GEN-UM	D60V01FX-KLN-LFB	1E-LOSP
813					RA-8-1H	RCICRMCOOL-FLAG		
814	400	6	1.67E-09	0.97825	1E4327N4-800-LFO	D60-GEN-UM	D62V02FX-KLN-LFB	1E-LOSP
815					RA-8-1H	RCICRMCOOL-FLAG		
816	410	6	1.59E-09	0.97832	D6000L-BETA	D6000L-PMS-DM	EE-WOC-1A5-AB-R	1E-1101
817					RA-3-12-80M	RCICRMCOOL-FLAG		
818	409	6	1.59E-09	0.97840	D6000L-BETA	D6000L-PMS-DM	EE-WOC-1A5-CB-R	1E-1101
819					RA-3-12-80M	RCICRMCOOL-FLAG		
820	408	6	1.59E-09	0.97847	D6000L-BETA	D6000L-PMS-DM	EE-WOP-PSM-BC-R	1E-1101
821					RA-3-12-80M	RCICRMCOOL-FLAG		
822	413	7	1.59E-09	0.97854	AP040X2-800-LFO	D60-GEN-LF-FTR	1E-LOSP	RA-8-10H
823					RA-9-2H	RCICRMCOOL-FLAG	SMV02CC-PMS-CC	

SEQUENCE T101

TOP EVENT PDS-T-SEQ4      CONTAINS      4 EVENTS IN      1 CUT SETS  
THE FREQUENCY OF TOP EVENT PDS-T-SEQ4      IS      2.76E-07

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT PDS-T-SEQ4

N	300
MEAN	2.48E-07
STD DEV	5.97E-07
LOWER 5%	4.13E-09
LOWER 25%	2.16E-08
MEDIAN	6.45E-08
UPPER 25%	2.07E-07
UPPER 5%	1.01E-06

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE T101  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK	
			REDUCTION (RANK)	LOWER 5% UPPER 5%
BATT-BETA	1	4.00E-02 ( 2.0)	2.76E-07 ( 2.0)	4.13E-09 1.01E-06
RA-B-8DM	1	2.00E-01 ( 1.0)	2.76E-07 ( 2.0)	4.13E-09 1.01E-06
BATT-FTDP	1	3.60E-04 ( 3.0)	2.76E-07 ( 2.0)	4.13E-09 1.01E-06

SEQUENCE T101

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
BATT-FTDP	1	3.60E-04 ( 3.0)	7.68E-04 ( 1.0)	9.08E-05	2.26E-03
BATT-BETA	1	4.00E-02 ( 2.0)	6.64E-06 ( 2.0)	1.51E-07	2.60E-05
RA-B-80M	1	2.00E-01 ( 1.0)	1.11E-06 ( 3.0)	1.83E-08	3.51E-06

SEQUENCE T101  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y .05/TE .05*	Y .95/TE .95*
BATT-FIDP	1	3.60E-04 ( 3.0)	67.6 ( 1.0)	7.92	0.81
SATT-BETA	1	4.00E-02 ( 2.0)	14.4 ( 2.0)	1.49	1.08
RA-8-SOM	1	2.00E-01 ( 1.0)	3.3 ( 3.0)	1.13	0.89



SEQUENCE T101

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT PDS-1-SEQ4 WITH TOP EVENT FREQUENCY 2.76E-07

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	4	2.76E-07	1.00000	BATT-BETA	*	BATT-FTOP	*	1E-LOSP	*	RA-8-80M
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TEMAC RUN TIME IN CPU SECONDS 15.66

SEQUENCE TL12

TOP EVENT POSC-TL-SEQ2C CONTAINS 75 EVENTS IN 292 OUT SETS

THE FREQUENCY OF TOP EVENT POSC-TL-SEQ2C IS 2.11E-07

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT POSC-TL-SEQ2C

N	300
MEAN	2.10E-07
STD DEV	6.87E-07
LOWER 5%	2.15E-09
LOWER 25%	1.18E-08
MEDIAN	3.81E-08
UPPER 25%	1.27E-07
UPPER 5%	7.64E-07

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF \cdot TEF(EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD \cdot RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EV(J) = 1) - TEF$

SEQUENCE TL12  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
Q1	271	8.20E-03 ( 23.0)	2.11E-07 ( 1.0)	2.12E-09	7.64E-07
SUR-007-V	137	8.70E-02 ( 12.0)	2.08E-07 ( 2.0)	1.77E-09	7.64E-07
LPCI-PMS-CM	8	2.50E-03 ( 35.0)	1.18E-07 ( 3.5)	4.36E-10	4.08E-07
LPCI-BETA	8	1.10E-01 ( 11.0)	1.18E-07 ( 3.5)	4.36E-10	4.08E-07
LPCI-MOV-BETA	16	3.00E-02 ( 13.0)	6.43E-08 ( 5.0)	2.81E-10	2.53E-07
LPCI-MOV-CM2	8	2.50E-03 ( 35.0)	3.21E-08 ( 6.5)	1.41E-10	1.27E-07
LPCI-MOV-CM1	8	2.50E-03 ( 35.0)	3.21E-08 ( 6.5)	1.41E-10	1.27E-07
CSCD300B-PLG-LF	28	1.20E-03 ( 44.5)	9.36E-09 ( 8.0)	2.53E-11	3.01E-08
CSCD300A-PLG-LF	30	1.20E-03 ( 44.5)	7.84E-09 ( 9.0)	1.87E-11	2.83E-08
RA-1-1-27H	121	2.10E-03 ( 39.5)	7.79E-09 ( 10.0)	3.46E-12	3.65E-08
RHRH01AX-HTX-LFB	12	6.20E-03 ( 24.5)	4.25E-09 ( 11.0)	1.21E-11	1.29E-08
RHRH01BX-HTX-LFB	9	6.20E-03 ( 24.5)	4.13E-09 ( 12.0)	1.06E-11	1.34E-08
SUR-008-V	155	2.10E-03 ( 39.5)	3.65E-09 ( 13.0)	2.86E-11	1.31E-08
FLOW-RHR-B3	31	1.00E+00 ( 5.5)	2.26E-09 ( 14.0)		
LAK18BRB-ROO-LFO	27	2.00E-02 ( 18.0)	2.18E-09 ( 15.5)	8.49E-13	1.04E-08
LAK9BRCB-ROO-LFO	27	2.00E-02 ( 18.0)	2.18E-09 ( 15.5)	8.49E-13	1.04E-08
SCSF06AA-DENER	10	1.00E+00 ( 5.5)	2.05E-09 ( 18.0)		
LCSC002A-P-UUM	10	3.00E-03 ( 30.5)	2.06E-09 ( 18.0)	4.71E-12	5.22E-09
RHRC02AA-P-UUM	10	3.00E-03 ( 30.5)	2.06E-09 ( 18.0)	4.71E-12	5.22E-09
SCSF06BB-DENER	7	1.00E+00 ( 5.5)	2.00E-09 ( 20.5)		
RHRC02BB-P-UUM	7	3.00E-03 ( 30.5)	2.00E-09 ( 20.5)	4.23E-12	5.34E-09
LAK93BRC-ROO-LFO	25	2.00E-02 ( 18.0)	1.93E-09 ( 22.0)	6.98E-13	8.87E-09
FLOW-RHR-A3	34	1.00E+00 ( 5.5)	1.92E-09 ( 23.0)		
LAK18ARA-ROO-LFO	27	2.00E-02 ( 18.0)	1.82E-09 ( 25.0)	7.59E-13	8.60E-09
LAK10RCA-ROO-LFO	27	2.00E-02 ( 18.0)	1.82E-09 ( 25.0)	7.59E-13	8.60E-09
LAK9ARCA-ROO-LFO	27	2.00E-02 ( 18.0)	1.82E-09 ( 25.0)	7.59E-13	8.60E-09
LAK93ARC-ROO-LFO	25	2.00E-02 ( 18.0)	1.57E-09 ( 27.0)	6.45E-13	6.92E-09
NOFLOW-SPC-B5X	9	1.00E+00 ( 5.5)	1.37E-09 ( 29.0)		
NOFLOW-CSS-B7A	9	1.00E+00 ( 5.5)	1.37E-09 ( 29.0)		
LAK14BRC-ROO-LFO	9	2.00E-02 ( 18.0)	1.37E-09 ( 29.0)	2.87E-13	7.27E-09
RA-2-11-27H	36	1.60E-03 ( 43.0)	1.35E-09 ( 31.0)	4.36E-13	5.42E-09
LAK14ARC-ROO-LFO	8	2.00E-02 ( 18.0)	1.01E-09 ( 33.0)	2.27E-13	5.18E-09
NOFLOW-SPC-A5X	8	1.00E+00 ( 5.5)	1.01E-09 ( 33.0)		
NOFLOW-CSS-A7A	8	1.00E+00 ( 5.5)	1.01E-09 ( 33.0)		
CODG01P-PMS-LF	11	1.10E-03 ( 47.5)	7.55E-10 ( 35.5)	4.60E-12	2.45E-09
RHRC02AA-PMS-LF	11	1.10E-03 ( 47.5)	7.55E-10 ( 35.5)	4.60E-12	2.45E-09
RHRC02BB-PMS-LF	7	1.10E-03 ( 47.5)	7.33E-10 ( 37.5)	3.12E-12	2.40E-09
C2DGO1P-PMS-LF	7	1.10E-03 ( 47.5)	7.33E-10 ( 37.5)	3.12E-12	2.40E-09
1EB36YB-BCO-LF	56	7.20E-05 ( 65.0)	7.00E-10 ( 39.0)	1.96E-12	2.34E-09
C2DGO1F-PLG-LF	8	5.80E-04 ( 52.5)	5.48E-10 ( 40.0)	7.45E-13	6.11E-09
CODG01F-PLG-LF	11	5.80E-04 ( 52.5)	5.42E-10 ( 41.0)	7.58E-13	6.10E-09
TDRFP-T-DE-27H	58	2.60E-03 ( 33.0)	4.57E-10 ( 42.0)	3.09E-13	8.80E-10
RHRB01AA-B00-LF	10	5.00E-04 ( 56.5)	3.43E-10 ( 43.0)	1.13E-12	1.08E-09
RHRF4BAA-V00-LF	9	5.00E-04 ( 56.5)	3.43E-10 ( 44.5)	1.07E-12	1.13E-09
CSCF068A-VCC-LF	9	5.00E-04 ( 56.5)	3.43E-10 ( 44.5)	1.07E-12	1.13E-09

RHSF4888-V00-LF	6	5.00E-04 ( 56.5)	3.33E-10 ( 47.0)	9.19E-13	9.88E-10
RHS80188-B00-LF	6	5.00E-04 ( 56.5)	3.33E-10 ( 47.0)	1.04E-12	1.10E-09
CSCF0688-VCC-LF	6	5.00E-04 ( 56.5)	3.33E-10 ( 47.0)	9.19E-13	9.88E-10
LAK38FCB-RCC-LFO	5	3.40E-03 ( 26.5)	2.45E-10 ( 49.0)	3.39E-14	1.30E-09
RWR0038-P-UUM	5	3.00E-03 ( 30.5)	2.03E-10 ( 50.0)	9.13E-14	5.30E-10
LAK3A5CA-RCC-LFO	4	3.40E-03 ( 26.5)	1.84E-10 ( 51.0)	2.55E-14	9.73E-10
RA-8-27H	3	3.20E-03 ( 28.0)	9.29E-11 ( 52.0)	2.81E-14	2.07E-10
MYS-RESET-OE-27H	4	2.10E-03 ( 39.5)	6.92E-11 ( 53.0)	2.69E-14	1.66E-10
NOFLOW-RHR-A)	3	1.00E+00 ( 5.5)	6.64E-11 ( 54.5)		
RHR30TAX-STR	3	1.10E-04 ( 60.5)	6.64E-11 ( 54.5)	1.82E-13	1.78E-10
NOFLOW-RHR-B1	2	1.00E+00 ( 5.5)	6.58E-11 ( 56.5)		
RHR30T8X-STR	2	1.10E-04 ( 60.5)	6.58E-11 ( 56.5)	1.77E-13	1.78E-10
EE-CSC03008-PLG	1	7.20E-04 ( 50.5)	6.19E-11 ( 58.5)	1.28E-13	1.69E-10
EF-C20G01F-PLG	1	7.20E-04 ( 50.5)	6.19E-11 ( 58.5)	1.28E-13	1.69E-10
1E8235YA-BCO-LF	3	7.20E-05 ( 65.0)	6.09E-11 ( 60.0)	1.05E-13	2.45E-10
1E36Y8-V-UUM	4	1.00E-04 ( 62.5)	1.22E-12 ( 61.5)	6.44E-16	3.26E-12
1E83A98-B-UUM	4	1.00E-04 ( 62.5)	1.22E-12 ( 61.5)	6.44E-16	3.26E-12
1E8235XA-BCO-LF	3	7.20E-05 ( 65.0)	6.66E-13 ( 63.0)	8.92E-17	1.05E-12
RA-7-1-27H	1	2.10E-03 ( 39.5)	5.41E-13 ( 64.0)	2.46E-16	1.33E-12
RA-5V-1-2H	67	2.10E-03 ( 39.5)	-1.61E-12 ( 65.0)	4.83E-12	1.34E-15
OPFALL-VENT-2H	225	2.10E-03 ( 39.5)	-4.43E-10 ( 66.0)	1.46E-09	8.14E-13

SEQUENCE TL12  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
LPCI-PMS-CM	8	2.50E-03 ( 35.0)	4.70E-05 ( 1.0)	1.15E-06	1.92E-04
Q1	271	8.20E-03 ( 23.0)	2.55E-05 ( 2.0)	5.54E-07	9.52E-05
LPCI-MOV-CM1	8	2.50E-03 ( 35.0)	1.28E-05 ( 3.5)	3.68E-07	5.18E-05
LPCI-MOV-CM2	8	2.50E-03 ( 35.0)	1.28E-05 ( 3.5)	3.68E-07	5.18E-05
1EB36YB-BCO-LF	56	7.20E-05 ( 65.0)	9.71E-06 ( 5.0)	2.74E-07	3.54E-05
CSCD300B-PLG-LF	28	1.20E-03 ( 44.5)	7.79E-06 ( 6.0)	1.85E-07	2.95E-05
CSCD300A-PLG-LF	30	1.20E-03 ( 44.5)	6.52E-06 ( 7.0)	1.60E-07	2.65E-05
RA-1-1-27H	121	2.10E-03 ( 39.5)	3.70E-06 ( 8.0)	5.31E-09	2.29E-05
SUR-007-V	137	8.70E-02 ( 12.0)	2.18E-06 ( 9.0)	2.89E-08	8.47E-06
LPCI-MOV-BETA	16	3.00E-02 ( 13.0)	2.08E-06 ( 10.0)	1.40E-08	8.53E-06
SUR-008-V	155	2.10E-03 ( 39.5)	1.73E-06 ( 11.0)	9.86E-08	7.45E-06
LPCI-BETA	8	1.10E-01 ( 11.0)	9.54E-07 ( 12.0)	6.48E-09	3.88E-06
C20G01F-PLG-LF	8	5.80E-04 ( 52.5)	9.44E-07 ( 13.0)	1.38E-08	3.49E-06
C0D01F-PLG-LF	11	5.80E-04 ( 52.5)	9.33E-07 ( 14.0)	1.44E-08	3.49E-06
1EB235YA-BCO-LF	3	7.20E-05 ( 65.0)	8.46E-07 ( 15.0)	1.07E-08	3.37E-06
RA-2-11-27H	36	1.60E-03 ( 43.0)	8.42E-07 ( 15.0)	1.90E-09	4.63E-06
RHR01AA-BOO-LF	10	5.00E-04 ( 56.5)	6.86E-07 ( 17.0)	1.26E-08	2.52E-06
C0D01P-PMS-LF	11	1.10E-03 ( 47.5)	6.86E-07 ( 18.5)	1.26E-08	2.52E-06
RHR02AA-PMS-LF	11	1.10E-03 ( 47.5)	6.86E-07 ( 18.5)	1.26E-08	2.52E-06
RHRF48AA-VOO-LF	9	5.00E-04 ( 56.5)	6.85E-07 ( 20.5)	1.26E-08	2.51E-06
CSCF068A-VCC-LF	9	5.00E-04 ( 56.5)	6.85E-07 ( 20.5)	1.26E-08	2.51E-06
LCSC002A-P-UUM	10	3.00E-03 ( 31.5)	6.84E-07 ( 22.5)	1.26E-08	2.51E-06
RHR02AA-P-UUM	10	3.00E-03 ( 30.5)	6.84E-07 ( 22.5)	1.26E-08	2.51E-06
RHR01AX-HTX-LFB	12	6.20E-03 ( 24.5)	6.82E-07 ( 24.0)	1.26E-08	2.52E-06
RHRF48BB-VOO-LF	6	5.00E-04 ( 56.5)	6.66E-07 ( 26.0)	1.06E-08	2.48E-06
CSCF068B-VCC-LF	6	5.00E-04 ( 56.5)	6.66E-07 ( 26.0)	1.06E-08	2.48E-06
RHR01BB-BOO-LF	6	5.00E-04 ( 56.5)	6.66E-07 ( 26.0)	1.06E-08	2.49E-06
RHR02BB-PMS-LF	7	1.10E-03 ( 47.5)	6.65E-07 ( 28.5)	1.06E-08	2.49E-06
C20G01P-PMS-LF	7	1.10E-03 ( 47.5)	6.65E-07 ( 28.5)	1.06E-08	2.49E-06
RHR02BB-P-UUM	7	3.00E-03 ( 30.5)	6.64E-07 ( 30.0)	1.05E-08	2.48E-06
RHR01BX-HTX-LFB	9	6.20E-03 ( 24.5)	6.62E-07 ( 31.0)	1.06E-08	2.49E-06
RHR01AX-STR	3	1.10E-04 ( 60.5)	6.04E-07 ( 32.0)	8.46E-09	2.40E-06
RHR01BX-STR	2	1.10E-04 ( 60.5)	5.98E-07 ( 33.0)	8.11E-09	2.35E-06
TDRFP-T-OE-27H	58	2.60E-03 ( 33.0)	1.75E-07 ( 34.0)	6.98E-10	7.83E-07
LAK9BRCB-ROO-LFO	27	2.00E-02 ( 18.0)	1.07E-07 ( 35.5)	2.87E-10	3.19E-07
LAK18BRCB-ROO-LFO	27	2.00E-02 ( 18.0)	1.07E-07 ( 35.5)	2.87E-10	3.19E-07
LAK13BRCB-ROO-LFO	25	2.00E-02 ( 18.0)	9.47E-08 ( 37.0)	4.85E-10	3.29E-07
LAK9ARCA-ROO-LFO	27	2.00E-02 ( 18.0)	8.92E-08 ( 39.0)	2.68E-10	2.63E-07
LAK18ARCA-ROO-LFO	27	2.00E-02 ( 18.0)	8.92E-08 ( 39.0)	2.68E-10	2.63E-07
LAK10ARCA-ROO-LFO	27	2.00E-02 ( 18.0)	8.92E-08 ( 39.0)	2.68E-10	2.63E-07
EE-CSCD300B-PLG	1	7.20E-04 ( 50.5)	8.59E-08 ( 41.5)	8.79E-10	3.26E-07
EE-C20G01F-PLG	1	7.20E-04 ( 50.5)	8.59E-08 ( 41.5)	8.79E-10	3.26E-07
LAK93ARC-ROO-LFO	25	2.00E-02 ( 18.0)	7.71E-08 ( 43.0)	3.92E-10	2.55E-07
LAK3BRCB-ROO-LFO	5	3.40E-03 ( 26.5)	7.17E-08 ( 44.0)	1.23E-10	2.28E-07
RHR003B-P-UUM	5	3.00E-03 ( 30.5)	6.75E-08 ( 45.0)	2.05E-10	2.18E-07

LAK14BRC-RCO-LFD	9	2.00E-02 ( 18.0)	6.71E-08 ( 46.0)	1.83E-10	1.93E-07
LAK3ARCA-RCO-LFO	4	3.40E-03 ( 26.5)	5.38E-08 ( 47.0)	9.30E-11	1.71E-07
LAK14ARC-RCO-LFD	8	2.00E-02 ( 18.0)	4.95E-08 ( 48.0)	1.57E-10	1.47E-07
MFS-RESET-OE-27H	4	2.10E-03 ( 39.5)	3.29E-08 ( 49.0)	4.59E-11	8.93E-08
RA-8-27H	3	3.20E-03 ( 28.0)	2.90E-08 ( 50.0)	1.18E-10	9.82E-08
1E36YB-V-UJM	4	1.00E-04 ( 62.5)	1.22E-08 ( 51.5)	1.05E-11	2.89E-08
1E830YB-B-UJM	4	1.00E-04 ( 62.5)	1.22E-08 ( 51.5)	1.05E-11	2.89E-08
1E8235XA-BCO-LF	3	7.20E-05 ( 65.0)	8.97E-09 ( 53.0)	7.57E-12	1.97E-08
RA-7-1-27H	1	2.10E-03 ( 39.5)	2.57E-10 ( 54.0)	3.61E-13	7.79E-10
SCSF068B-DENER	7	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
SCSF06AA-DENER	10	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
NOFLOW-SPC-B5X	9	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
NOFLOW-SPC-A5X	8	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
NOFLOW-RHR-B1	2	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
NOFLOW-RHR-A1	3	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
NOFLOW-CSS-B7A	9	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
NOFLOW-CSS-A7A	8	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
FLOW-RHR-B3	31	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
FLOW-RHR-A3	34	1.00E+00 ( 5.5)	0.00E+00 ( 59.5)		
RA-5V-1-2H	67	2.10E-03 ( 39.5)	-7.63E-10 ( 65.0)	-2.71E-09	-2.16E-12
OPFAIL-VENT-2H	225	2.10E-03 ( 39.5)	-2.10E-07 ( 66.0)	-7.64E-07	-2.09E-09

SEQUENCE TL12  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
LPCI-MOV-CM1	8	2.50E-03 (35.0)	31.9 (2.0)	3.33	1.09
LPCI-PMS-CM	8	2.50E-03 (35.0)	31.9 (2.0)	3.33	1.09
LPCI-MOV-CM2	8	2.50E-03 (35.0)	31.9 (2.0)	3.33	1.09
Q1	271	8.20E-03 (23.0)	24.8 (4.0)	2.13	1.03
SUR-007-V	137	8.70E-02 (12.0)	20.4 (5.0)	1.64	1.09
LAK3BRCB-RCO-LFO	5	3.40E-03 (26.5)	5.0 (6.5)	0.99	1.00
LAK3ARCA-RCO-LFO	4	3.40E-03 (26.5)	5.0 (6.5)	0.99	1.00
LAK18ARA-ROO-LFO	27	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK10RCA-ROO-LFO	27	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK14ARC-RCO-LFO	8	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK9BRCB-ROO-LFO	27	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK14BRC-RCO-LFO	9	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK93BRC-ROO-LFO	25	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK18BRB-ROO-LFO	27	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK9ARCA-ROO-LFO	27	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LAK93ARC-ROO-LFO	25	2.00E-02 (18.0)	5.0 (12.0)	0.92	0.95
LPCI-BETA	8	1.10E-01 (11.0)	4.3 (17.0)	1.13	1.08
C0D01F-PLG-LF	11	5.80E-04 (52.5)	3.7 (18.5)	1.02	1.00
C2D01F-PLG-LF	8	5.80E-04 (52.5)	3.7 (18.5)	1.02	1.00
CSCD300B-PLG-LF	28	1.20E-03 (44.5)	3.7 (20.5)	1.19	1.00
CSCD300A-PLG-LF	30	1.20E-03 (44.5)	3.7 (20.5)	1.19	1.00
RHRC02AA-PMS-LF	11	1.10E-03 (47.5)	2.9 (23.5)	0.96	1.00
C2D01P-PMS-LF	7	1.10E-03 (47.5)	2.9 (23.5)	0.96	1.00
RHRC02BB-PMS-LF	7	1.10E-03 (47.5)	2.9 (23.5)	0.96	1.00
C0D01P-PMS-LF	11	1.10E-03 (47.5)	2.9 (23.5)	0.96	1.00
LPCI-MOV-BETA	16	3.00E-02 (13.0)	2.8 (26.0)	0.99	0.98
RA-7-1-27H	1	2.10E-03 (39.5)	2.1 (29.0)	1.11	1.00
RA-5V-1-2H	67	2.10E-03 (39.5)	2.1 (29.0)	1.11	1.00
RA-1-1-27H	121	2.10E-03 (39.5)	2.1 (29.0)	1.11	1.00
OPFAIL-VENT-2H	225	2.10E-03 (39.5)	2.1 (29.0)	1.11	1.00
MFS-RESET-OE-27H	4	2.10E-03 (39.5)	2.1 (29.0)	1.11	1.00
RHRF48BB-V00-LF	6	5.00E-04 (56.5)	2.0 (33.5)	1.03	1.00
RHRF48AA-V00-LF	9	5.00E-04 (56.5)	2.0 (33.5)	1.03	1.00
CSCF06BB-VCC-LF	6	5.00E-04 (56.5)	2.0 (33.5)	1.03	1.00
CSCF06BA-VCC-LF	9	5.00E-04 (56.5)	2.0 (33.5)	1.03	1.00
TDRFP-T-OE-27H	58	2.60E-03 (33.0)	1.3 (36.0)	1.00	1.00
1EB235YA-BCO-LF	3	7.20E-05 (65.0)	0.5 (38.0)	1.00	1.00
1EB36YB-BCO-LF	56	7.20E-05 (65.0)	0.5 (38.0)	1.00	1.00
1EB235XA-BCO-LF	3	7.20E-05 (65.0)	0.5 (38.0)	1.00	1.00
EE-CSCD300B-PLG	1	7.20E-04 (50.5)	0.0 (48.0)		
RHRH01BX-HTX-LFB	9	6.20E-03 (24.5)	0.0 (48.0)		
RHRH01AX-HTX-LFB	12	6.20E-03 (24.5)	0.0 (48.0)		
LCSC002A-P-UUM	10	3.00E-03 (30.5)	0.0 (48.0)		
RHRC02BB-P-UUM	7	3.00E-03 (30.5)	0.0 (48.0)		
EE-C2D01F-PLG	1	7.20E-04 (50.5)	0.0 (48.0)		

RHRC02AA-P-UUM	10	3.00E-03	( 30.5)	0.0	( 48.0)
RHRC003B-P-UUM	5	3.00E-03	( 30.5)	0.0	( 48.0)
RH9B01BB-B00-LF	6	5.00E-04	( 56.5)	0.0	( 48.0)
RHRB01AA-B00-LF	10	5.00E-04	( 56.5)	0.0	( 48.0)
RHR301BX-STR	2	1.10E-04	( 60.5)	0.0	( 48.0)
RHR301AX-STR	3	1.10E-04	( 60.5)	0.0	( 48.0)
RA-8-27H	3	3.20E-03	( 28.0)	0.0	( 48.0)
RA-2-11-27H	36	1.60E-03	( 43.0)	0.0	( 48.0)
1E32AYB-V-UUM	4	1.00E-04	( 62.5)	0.0	( 48.0)
1EB3AYB-B-UUM	4	1.00E-04	( 62.5)	0.0	( 48.0)
SUR-00B-V	155	2.10E-03	( 39.5)	0.0	( 48.0)
SCSF06BB-DENER	7	1.00E+00	( 5.5)		
SCSF06AA-DENER	10	1.00E+00	( 5.5)		
NOFLOW-SPC-B5X	9	1.00E+00	( 5.5)		
NOFLOW-SPC-A5X	8	1.00E+00	( 5.5)		
NOFLOW-RHR-B1	2	1.00E+00	( 5.5)		
NOFLOW-RHR-A1	3	1.00E+00	( 5.5)		
NOFLOW-CSS-B7A	9	1.00E+00	( 5.5)		
NOFLOW-CSS-A7A	8	1.00E+00	( 5.5)		
FLOW-RHR-B3	31	1.00E+00	( 5.5)		
FLOW-RHR-A3	34	1.00E+00	( 5.5)		



SEQUENCE TL12

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT PDS-C-TL-SEQ2C WITH TOP EVENT FREQUENCY 2.11E-07

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	6	1.17E-07	0.55620	IE-T5	* LPCI-BETA	* LPCI-PMS-CH	* /OPFAIL-VENT-2H	*
3					Q1	* SUR-007-V	+		
4	3	6	3.20E-08	0.70789	IE-T5	* LPCI-MOV-BETA	* LPCI-MOV-CH1	* /OPFAIL-VENT-2H	*
5					Q1	* SUR-007-V	+		
6	2	6	3.20E-08	0.85958	IE-T5	* LPCI-MOV-BETA	* LPCI-MOV-CH2	* /OPFAIL-VENT-2H	*
7					Q1	* SUR-007-V	+		
8	18	6	3.18E-09	0.87463	CSCD300A-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	* Q1	*
9					RHRH01BX-HTX-LFB	* SUR-007-V	+		
10	19	6	3.18E-09	0.88968	CSCD300B-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	* Q1	*
11					RHRH01AX-HTX-LFB	* SUR-007-V	+		
12	32	6	1.54E-09	0.89696	CSCD300B-PLG-LF	* IE-T5	* LCSC002A-P-UUM	* /OPFAIL-VENT-2H	*
13					Q1	* SUR-007-V	+		
14	33	7	1.54E-09	0.90424	CSCD300A-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	* Q1	*
15					RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-007-V	+	
16	34	7	1.54E-09	0.91152	CSCD300B-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	* Q1	*
17					RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-007-V	+	
18	43	6	6.15E-10	0.91443	CSCD300A-PLG-LF	* CSCD300B-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	*
19					Q1	* SUR-007-V	+		
20	47	6	5.64E-10	0.91710	CODG01P-PMS-LF	* CSCD300B-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	*
21					Q1	* SUR-007-V	+		
22	45	6	5.64E-10	0.91977	C2DG01P-PMS-LF	* CSCD300A-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	*
23					Q1	* SUR-007-V	+		
24	46	6	5.64E-10	0.92244	CSCD300B-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	* Q1	*
25					RHRC02AA-PMS-LF	* SUR-007-V	+		
26	44	6	5.64E-10	0.92511	CSCD300A-PLG-LF	* IE-T5	* /OPFAIL-VENT-2H	* Q1	*
27					RHRC02BB-PMS-LF	* SUR-007-V	+		
28	4	5	5.33E-10	0.92763	IE-T9B	* /OPFAIL-VENT-2H	* Q1	* RHRH01AX-HTX-LFB	*
29					SUR-008-V	+			
30	5	5	5.33E-10	0.93016	IE-T9A	* /OPFAIL-VENT-2H	* Q1	* RHRH01BX-HTX-LFB	*
31					SUR-008-V	+			
32	60	7	3.59E-10	0.93186	IE-T5	* LAK10RCA-ROO-LFO	* LAK188RB-ROO-LFO	* /OPFAIL-VENT-2H	*
33					Q1	* RA-1-1-27H	* SUR-007-V	+	
34	57	8	3.59E-10	0.93355	FLOW-RHR-B3	* IE-T5	* LAK93BRC-ROO-LFO	* LAK9ARCA-ROO-LFO	*
35					/OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-007-V	+
36	52	8	3.59E-10	0.93525	FLOW-RHR-A3	* IE-T5	* LAK93ARC-ROO-LFO	* LAK9BRCB-ROO-LFO	*
37					/OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-007-V	+
38	53	9	3.59E-10	0.93695	IE-T5	* LAK10RCA-ROO-LFO	* LAK14BRC-ROO-LFO	* NOFLOW-CSS-B7A	*
39					NOFLOW-SPC-B5X	* /OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	*
40					SUR-007-V	+			
41	62	7	3.59E-10	0.93865	IE-T5	* LAK18ARA-ROO-LFO	* LAK188RB-ROO-LFO	* /OPFAIL-VENT-2H	*
42					Q1	* RA-1-1-27H	* SUR-007-V	+	
43	51	7	3.59E-10	0.94035	IE-T5	* LAK9ARCA-ROO-LFO	* LAK9BRCB-ROO-LFO	* /OPFAIL-VENT-2H	*
44					Q1	* RA-1-1-27H	* SUR-007-V	+	

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150	127	7	6.10E-11	0.98695	IE-T5	* LAK188RB-ROO-LFO	* LAK3ARCA-ROO-LFO	* /OPFAIL-VENT-2H	*
151					Q1	* RA-1-1-27H	* SUR-007-V	+	
152	129	7	6.10E-11	0.98724	IE-T5	* LAK18ARA-ROO-LFO	* LAK3BRCB-ROO-LFO	* /OPFAIL-VENT-2H	*
153					Q1	* RA-1-1-27H	* SUR-007-V	+	
154	118	7	6.01E-11	0.98753	IE-LOSP	* LPCI-BETA	* LPCI-PMS-CM	* /OPFAIL-VENT-2H	*
155					Q1	* RA-B-27H	* SUR-007-V	+	
156	12	6	5.72E-11	0.98780	IE-T7	* LPCI-MOV-BETA	* LPCI-MOV-CM1	* /OPFAIL-VENT-2H	*
157					SUR-008-V	* TDRFP-T-OE-27H	+		
158	13	6	5.72E-11	0.98800	IE-T7	* LPCI-MOV-BETA	* LPCI-MOV-CM2	* /OPFAIL-VENT-2H	*
159					SUR-008-V	* TDRFP-T-OE-27H	+		
160	130	7	5.64E-11	0.98833	CSCD300B-PLG-LF	* IE-T5	* NOFLOW-RHR-A1	* /OPFAIL-VENT-2H	*
161					Q1	* RHR301AX-STR	* SUR-007-V	+	
162	131	7	5.64E-11	0.98860	CSD300A-PLG-LF	* IE-T5	* NOFLOW-RHR-B1	* /OPFAIL-VENT-2H	*
163					Q1	* RHR301BX-STR	* SUR-007-V	+	
164	22	7	5.53E-11	0.98886	IE-T1	* LPCI-BETA	* LPCI-PMS-CM	* /OPFAIL-VENT-2H	*
165					Q1	* SUR-008-V	* TDRFP-T-OE-27H	+	
166	140	7	5.38E-11	0.98912	IE-T1	* LAK188RB-ROO-LFO	* LCSC002A-P-UUM	* /OPFAIL-VENT-2H	*
167					Q1	* RA-1-1-27H	* SUR-007-V	+	
168	135	7	5.38E-11	0.98937	IE-T5	* LAK10RCA-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
169					RA-1-1-27H	* RHRC003B-P-UUM	* SUR-007-V	+	
170	134	7	5.38E-11	0.98963	IE-T5	* LAK9RCB-ROO-LFO	* LCSC002A-P-UUM	* /OPFAIL-VENT-2H	*
171					Q1	* RA-1-1-27H	* SUR-007-V	+	
172	133	8	5.38E-11	0.98988	IE-T5	* LAK9RCB-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
173					RA-1-1-27H	* RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-007-V	+
174	141	8	5.38E-11	0.99014	IE-T5	* LAK9ARCA-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
175					RA-1-1-27H	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-007-V	+
176	137	8	5.38E-11	0.99039	IE-T5	* LAK18ARA-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
177					RA-1-1-27H	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-007-V	+
178	138	7	5.38E-11	0.99065	IE-T5	* LAK18ARA-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
179					RA-1-1-27H	* RHRC003B-P-UUM	* SUR-007-V	+	
180	136	7	5.38E-11	0.99090	IE-T5	* LAK9ARCA-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
181					RA-1-1-27H	* RHRC003B-P-UUM	* SUR-007-V	+	
182	139	8	5.38E-11	0.99116	IE-T5	* LAK10RCA-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
183					RA-1-1-27H	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-007-V	+
184	132	8	5.38E-11	0.99141	IE-T5	* LAK188RB-ROO-LFO	* /OPFAIL-VENT-2H	* Q1	*
185					RA-1-1-27H	* RHRC02AA-P-UUM	* SCSF06AA-DENER	* SUR-007-V	+
186	24	5	4.98E-11	0.99165	CDDG01F-PLG-LF	* IE-T9B	* /OPFAIL-VENT-2H	* Q1	*
187					SUR-008-V	+			
188	23	5	4.98E-11	0.99188	C2DGD1F-PLG-LF	* IE-T9A	* /OPFAIL-VENT-2H	* Q1	*
189					SUR-008-V	+			
190	25	7	4.47E-11	0.99210	IE-T1	* LPCI-BETA	* LPCI-PMS-CM	* MFS-RESET-OE-27H	*
191					/OPFAIL-VENT-2H	* Q1	* SUR-008-V	+	
192	31	5	4.30E-11	0.99230	CSCF06BB-VCC-LF	* IE-T9A	* /OPFAIL-VENT-2H	* Q1	*
193					SUR-008-V	+			
194	30	6	4.30E-11	0.99250	FLOW-RHR-B3	* IE-T9A	* /OPFAIL-VENT-2H	* Q1	*
195					RHRF48BB-V00-LF	* SUR-008-V	+		
196	28	5	4.30E-11	0.99271	IE-T9A	* /OPFAIL-VENT-2H	* Q1	* RHRB01BB-800-LF	*
197					SUR-008-V	+			
198	27	5	4.30E-11	0.99291	IE-T9B	* /OPFAIL-VENT-2H	* Q1	* RHRB01AA-800-LF	*
199					SUR-008-V	+			

SEQUENCE TL14

TOP EVENT CPDSB1-TL-SEQ2B CONTAINS 158 EVENTS IN 530 CUT SETS

THE FREQUENCY OF TOP EVENT CPDSB1-TL-SEQ2B IS 3.11E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPDSB1-TL-SEQ2B

N	300
MEAN	2.09E-09
STD DEV	1.35E-08
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.82E-08

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE TL14  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		LOWER 5%	UPPER 5%
				REDUCTION	(RANK)		
CONT-LEAK	530	7.50E-01	( 12.0)	3.11E-09	( 1.0)	0.00E+00	1.82E-08
Q1	495	8.20E-03	( 25.0)	3.10E-09	( 2.0)	0.00E+00	1.82E-08
RA-NONE	269	1.00E+00	( 6.0)	3.08E-09	( 3.0)		
SUR-003-L	353	1.60E-01	( 1.0)	1.98E-09	( 4.0)	0.00E+00	8.90E-09
SUR-005-L	377	4.60E-04	( 90.0)	1.14E-09	( 5.0)	0.00E+00	4.85E-09
1E62368-BCC-LF	58	7.20E-05	(143.5)	7.79E-10	( 6.0)	0.00E+00	3.07E-09
1E8233A-BCC-LF	52	7.20E-05	(143.5)	6.68E-10	( 7.0)	0.00E+00	2.48E-09
OFFAIL-VENT-2H	222	2.10E-03	( 62.0)	6.02E-10	( 8.0)	0.00E+00	1.99E-09
RHR01AX-RTX-LFB	17	6.20E-03	( 26.5)	3.69E-10	( 9.0)	0.00E+00	1.02E-09
RHR01BX-RTX-LFB	14	6.20E-03	( 26.5)	3.69E-10	( 10.0)	0.00E+00	1.02E-09
LPCI-BETA	7	1.10E-01	( 34.0)	3.41E-10	( 11.5)	0.00E+00	9.45E-10
LPCI-PMS-CM	7	2.50E-03	( 53.0)	3.41E-10	( 11.5)	0.00E+00	9.45E-10
SCSF06AA-DENER	18	1.00E+00	( 6.0)	1.91E-10	( 13.0)		
SCSF06BB-DENER	15	1.00E+00	( 6.0)	1.91E-10	( 14.0)	0.00E+00	3.51E-10
LPCI-NOV-BETA	14	3.00E-02	( 15.0)	1.86E-10	( 15.0)	0.00E+00	3.50E-10
LCS002A-P-UJM	15	3.00E-03	( 34.5)	1.79E-10	( 16.5)	0.00E+00	3.50E-10
RHR02AA-P-UJM	15	3.00E-03	( 34.5)	1.79E-10	( 16.5)	0.00E+00	3.50E-10
RHR02BB-P-UJM	12	3.00E-03	( 34.5)	1.79E-10	( 18.0)	0.00E+00	3.50E-10
CSCD300B-PLG-LF	36	1.20E-03	( 66.5)	1.01E-10	( 19.0)	0.00E+00	2.68E-10
CSCD300A-PLG-LF	38	1.20E-03	( 66.5)	9.62E-11	( 20.0)	0.00E+00	2.65E-10
LPCI-NOV-CM2	7	2.50E-03	( 53.0)	9.30E-11	( 21.5)	0.00E+00	1.75E-10
LPCI-NOV-CM1	7	2.50E-03	( 53.0)	9.30E-11	( 21.5)	0.00E+00	1.75E-10
RHR02AA-PMS-LF	17	1.10E-03	( 69.5)	6.56E-11	( 23.5)	0.00E+00	3.02E-10
COG01P-PMS-LF	17	1.10E-03	( 69.5)	6.56E-11	( 23.5)	0.00E+00	3.02E-10
CZD01P-PMS-LF	13	1.10E-03	( 69.5)	6.56E-11	( 25.5)	0.00E+00	3.03E-10
RHR02BB-PMS-LF	13	1.10E-03	( 69.5)	6.56E-11	( 25.5)	0.00E+00	3.03E-10
RHR02BB-P-NDUJM	1	3.00E-03	( 34.5)	4.24E-11	( 28.5)	0.00E+00	1.12E-10
CZD01P-P-UJM	1	3.00E-03	( 34.5)	4.24E-11	( 28.5)	0.00E+00	1.12E-10
COG01P-P-UJM	1	3.00E-03	( 34.5)	4.24E-11	( 28.5)	0.00E+00	1.12E-10
RHR02AA-P-NDUJM	1	3.00E-03	( 34.5)	4.24E-11	( 28.5)	0.00E+00	1.12E-10
FLOW-RHR-B3	44	1.00E+00	( 6.0)	4.04E-11	( 31.0)		
FLOW-RHR-A3	47	1.00E+00	( 6.0)	3.94E-11	( 32.0)	0.00E+00	9.17E-11
COG01P-PMS-CC	1	2.50E-03	( 53.0)	3.54E-11	( 35.5)	0.00E+00	9.17E-11
NAVY01CA-FMS-CC	1	2.50E-03	( 53.0)	3.54E-11	( 35.5)	0.00E+00	9.17E-11
CZD01P-PMS-CC	1	2.50E-03	( 53.0)	3.54E-11	( 35.5)	0.00E+00	9.17E-11
RHR01AA-800-CC	1	2.50E-03	( 53.0)	3.54E-11	( 35.5)	0.00E+00	9.17E-11
SEVY03CB-FMS-CC	1	2.50E-03	( 53.0)	3.54E-11	( 35.5)	0.00E+00	9.17E-11
RHR01BB-800-CC	1	2.50E-03	( 53.0)	3.54E-11	( 35.5)	0.00E+00	9.17E-11
CZD01F-PLG-LF	15	5.80E-04	( 77.5)	3.51E-11	( 39.0)	0.00E+00	8.14E-11
COG01F-PLG-LF	18	5.80E-04	( 77.5)	3.51E-11	( 40.0)	0.00E+00	8.14E-11
RHR01AA-800-LF	16	5.00E-04	( 85.0)	2.98E-11	( 41.0)	0.00E+00	6.33E-11
RHR01BB-800-LF	12	5.00E-04	( 85.0)	2.98E-11	( 42.0)	0.00E+00	6.33E-11
RHR01AA-V00-LF	14	5.00E-04	( 85.0)	2.98E-11	( 43.5)	0.00E+00	8.00E-11
CSCF06BA-VCC-LF	14	5.00E-04	( 85.0)	2.98E-11	( 43.5)	0.00E+00	8.00E-11
RHR01BB-V00-LF	11	5.00E-04	( 85.0)	2.98E-11	( 45.5)	0.00E+00	7.99E-11

CSCF068B-VCC-LF	11	5.00E-04 ( 85.0)	2.98E-11 ( 45.5)	0.00E+00	7.99E-11
RA-1-1-27H	153	2.10E-03 ( 62.0)	2.76E-11 ( 47.0)	0.00E+00	1.13E-10
NWVY01AX-ACX-LF1	1	8.40E-04 ( 72.5)	1.19E-11 ( 48.5)	0.00E+00	1.61E-11
SEVY03AX-ACX-LF1	1	8.40E-04 ( 72.5)	1.19E-11 ( 48.5)	0.00E+00	1.61E-11
EE-CSCD300A-PLG	2	7.20E-04 ( 75.0)	1.03E-11 ( 50.0)	0.00E+00	3.06E-11
NWVY01CA-FMS-LF	1	5.40E-04 ( 79.5)	7.64E-12 ( 51.5)	0.00E+00	2.62E-11
SEVY03CB-FMS-LF	1	5.40E-04 ( 79.5)	7.64E-12 ( 51.5)	0.00E+00	2.62E-11
LAK18BRB-ROO-LFO	32	2.00E-02 ( 20.0)	7.19E-12 ( 53.5)	0.00E+00	2.40E-11
LAK9BRCB-ROO-LFO	32	2.00E-02 ( 20.0)	7.19E-12 ( 53.5)	0.00E+00	2.40E-11
NWVY01CA-F-UUM	1	5.00E-04 ( 85.0)	7.07E-12 ( 56.0)	0.00E+00	2.42E-11
2DG1PK18-ROO-LFO	1	5.00E-04 ( 85.0)	7.07E-12 ( 56.0)	0.00E+00	1.66E-11
SEVY03CB-F-UUM	1	5.00E-04 ( 85.0)	7.07E-12 ( 56.0)	0.00E+00	2.42E-11
RA-2-11-27H	56	1.60E-03 ( 65.0)	6.55E-12 ( 58.0)	0.00E+00	1.60E-11
LAK93BRC-ROO-LFO	30	2.00E-02 ( 20.0)	6.27E-12 ( 59.0)	0.00E+00	1.96E-11
LAK10RCA-ROO-LFO	32	2.00E-02 ( 20.0)	6.15E-12 ( 61.0)	0.00E+00	2.20E-11
LAK9ARCA-ROO-LFO	32	2.00E-02 ( 20.0)	6.15E-12 ( 61.0)	0.00E+00	2.20E-11
LAK18ARA-ROO-LFO	32	2.00E-02 ( 20.0)	6.15E-12 ( 61.0)	0.00E+00	2.20E-11
LAK93ARC-ROO-LFO	30	2.00E-02 ( 20.0)	5.23E-12 ( 63.0)	0.00E+00	1.69E-11
NOFLOW-SPC-B5X	11	1.00E+00 ( 6.0)	4.45E-12 ( 65.0)		
NOFLOW-CSS-B7A	11	1.00E+00 ( 6.0)	4.45E-12 ( 65.0)		
LAK14BRC-ROO-LFO	11	2.00E-02 ( 20.0)	4.45E-12 ( 65.0)	0.00E+00	1.16E-11
RHRF74AA-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF65BB-W-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF65AA-W-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF64AA-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF60BB-S-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF60AA-S-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF55BX-R-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF55AX-R-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF51BB-W-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF51AA-W-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF483B-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF74BB-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF48AA-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF47BB-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF47AA-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF64BB-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
CSCD300A-S-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.19E-11
RHRF87BB-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
CODG01F-S-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.19E-11
PC02AAAX-ROO-LFO	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.12E-11
CSCF068B-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
NWVY01AX-A-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.19E-11
2DG01PSC-ROO-LFO	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.12E-11
CSCF008A-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
2DG01PK18CA-LFOO	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.12E-11
C2DG01F-S-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.19E-11
SEVY03AX-A-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.19E-11
CSCD300A-S-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	1.19E-11
SCSF068B-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
SCSF06AA-V-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12
RHRF886X-R-UUM	1	3.00E-04 (108.0)	4.24E-12 ( 84.0)	0.00E+00	7.27E-12

RHR018X-R-UJM	1	3.00E-04	(108.0)	4.24E-12	( 84.0)	0.00E+00	1.19E-11
RHR014X-R-UJM	1	3.00E-04	(108.0)	4.24E-12	( 84.0)	0.00E+00	1.19E-11
RHR080X-R-UJM	1	3.00E-04	(108.0)	4.24E-12	( 84.0)	0.00E+00	7.27E-12
RHR074A-V-UJM	1	3.00E-04	(108.0)	4.24E-12	( 84.0)	0.00E+00	7.27E-12
1E8367B-BCO-LF	58	7.20E-05	(143.5)	3.67E-12	(102.0)	0.00E+00	1.17E-11
LAX14ARC-RCO-LFO	10	2.00E-02	( 20.0)	3.41E-12	(104.0)	0.00E+00	8.35E-12
NOFLOW-SPC-A5X	10	1.00E+00	( 6.0)	3.41E-12	(104.0)	0.00E+00	8.35E-12
NOFLOW-CSS-A7A	10	1.00E+00	( 6.0)	3.41E-12	(104.0)	0.00E+00	2.76E-12
RHR3014X-STR	5	1.10E-04	(126.5)	1.82E-12	(106.5)	0.00E+00	2.76E-12
NOFLOW-RHR-A1	5	1.00E+00	( 6.0)	1.82E-12	(106.5)	0.00E+00	2.76E-12
RHR3018X-STR	4	1.10E-04	(126.5)	1.82E-12	(108.5)	0.00E+00	2.76E-12
NOFLOW-RHR-B1	4	1.00E+00	( 6.0)	1.82E-12	(108.5)	0.00E+00	2.76E-12
RA-5V-1-2H	67	2.10E-03	( 62.0)	1.79E-12	(110.0)	0.00E+00	3.65E-12
CS800GP-BCO-LF	1	8.40E-05	(136.5)	1.19E-12	(112.5)	0.00E+00	2.23E-12
1E816212-BCO	1	8.40E-05	(136.5)	1.19E-12	(112.5)	0.00E+00	2.23E-12
1E816211-BCO	1	8.40E-05	(136.5)	1.19E-12	(112.5)	0.00E+00	2.23E-12
CS82061P-BCO-LF	1	8.40E-05	(136.5)	1.19E-12	(112.5)	0.00E+00	2.23E-12
1E82357A-BCO-LF	4	7.20E-05	(143.5)	1.18E-12	(115.0)	0.00E+00	2.40E-12
1E82357A-BCO-LF	4	7.20E-05	(143.5)	1.02E-12	(116.0)	0.00E+00	1.86E-12
1E83671X-BCO-LF	1	7.20E-05	(143.5)	1.02E-12	(119.0)	0.00E+00	1.86E-12
1E83671X-BCO-LF	1	7.20E-05	(143.5)	1.02E-12	(119.0)	0.00E+00	1.86E-12
1E83672X-BCO-LF	1	7.20E-05	(143.5)	1.02E-12	(119.0)	0.00E+00	1.86E-12
WVY8001X-BCO-LF	1	7.20E-05	(143.5)	1.02E-12	(119.0)	0.00E+00	1.86E-12
SEV8001X-BCO-LF	1	7.20E-05	(143.5)	1.02E-12	(119.0)	0.00E+00	1.86E-12
LAK388CB-RCO-LFO	6	3.40E-03	( 28.5)	8.09E-13	(122.0)	0.00E+00	2.52E-12
G2	5	9.40E-05	(134.0)	6.94E-13	(123.0)	0.00E+00	1.36E-12
RHR003B-P-UJM	6	3.00E-03	( 34.5)	6.77E-13	(124.0)	0.00E+00	1.19E-12
LAK3AFCA-RCO-LFO	5	3.40E-03	( 28.5)	6.32E-13	(125.0)	0.00E+00	1.99E-12
1E427B-V-UJM	4	1.00E-04	(130.5)	2.01E-13	(126.5)	0.00E+00	2.70E-13
1E82368-B-UJM	4	1.00E-04	(130.5)	2.01E-13	(126.5)	0.00E+00	2.70E-13
TDRFP-1-DE-27H	58	2.60E-03	( 46.0)	1.58E-13	(128.0)	0.00E+00	5.84E-14
1E8235A-B-UJM	3	1.00E-04	(130.5)	1.48E-13	(129.5)	0.00E+00	1.99E-13
1E417A-V-UJM	3	1.00E-04	(130.5)	1.48E-13	(129.5)	0.00E+00	1.99E-13
RA-7-1-27H	2	2.10E-03	( 62.0)	1.48E-13	(129.5)	0.00E+00	1.99E-13
LAK9ACP3-LFOO	1	2.90E-03	( 42.0)	8.93E-14	(131.0)	0.00E+00	8.27E-14
LAK188CP1-LFOO	1	2.90E-03	( 42.0)	8.61E-14	(134.0)	0.00E+00	1.52E-13
LAK18ACP1-LFOO	1	2.90E-03	( 42.0)	8.61E-14	(134.0)	0.00E+00	1.52E-13
LAK10ACP9-LFOO	1	2.90E-03	( 42.0)	8.61E-14	(134.0)	0.00E+00	1.52E-13
LAK96CP3-LFOO	1	2.90E-03	( 42.0)	8.61E-14	(134.0)	0.00E+00	1.52E-13
LAK95CP3-LFCC	1	2.90E-03	( 42.0)	6.56E-14	(137.5)	0.00E+00	4.01E-14
LAK93ACP3-LFCC	1	2.90E-03	( 42.0)	6.56E-14	(137.5)	0.00E+00	4.01E-14
1EDC20EP-FRP-27H	2	3.20E-03	( 30.0)	6.52E-14	(139.0)	0.00E+00	4.63E-14
RHRF488B-VOC-CC	1	2.50E-03	( 53.0)	5.66E-14	(141.5)	0.00E+00	4.56E-14
RHRF48AA-VOC-CC	1	2.50E-03	( 53.0)	5.66E-14	(141.5)	0.00E+00	4.56E-14
CSCF068B-VCC-CC	1	2.50E-03	( 53.0)	5.66E-14	(141.5)	0.00E+00	4.56E-14
CSCF068A-VCC-CC	1	2.50E-03	( 53.0)	5.66E-14	(141.5)	0.00E+00	4.56E-14
EE-CSC0300B-PLG	2	7.20E-04	( 75.0)	5.40E-14	(144.5)	0.00E+00	9.56E-14
EE-20G01F-PLG	2	7.20E-04	( 75.0)	5.40E-14	(144.5)	0.00E+00	9.56E-14
RFS-RESET-0E-27H	4	2.10E-03	( 62.0)	2.39E-14	(146.0)	0.00E+00	1.84E-14



SEQUENCE TL14  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	RANK	RISK		UPPER 5%
				INCREASE	(RANK)	
1ER276B-BCO-LF	58	7.20E-05	(143.5)	1.08E-05	( 2.0)	7.49E-05
1ER25A-BCO-LF	52	7.20E-05	(143.5)	9.00E-06	( 2.0)	6.48E-05
SUR-005-L	377	4.60E-04	( 90.0)	2.47E-06	( 3.0)	1.13E-05
Q1	495	8.20E-03	( 25.0)	3.75E-07	( 4.0)	2.21E-06
DPFATL-VENT-2H	222	2.10E-03	( 62.0)	2.86E-07	( 5.0)	1.57E-06
LPCI-PMS-CM	7	7.50E-03	( 53.0)	1.74E-07	( 6.0)	6.06E-07
CSCD3008-PLG-LF	36	1.20E-03	( 66.5)	8.38E-08	( 7.0)	4.98E-07
CSCD300A-PLG-LF	38	1.20E-03	( 66.5)	8.01E-08	( 8.0)	4.91E-07
CZDG01F-PLG-LF	15	5.80E-04	( 77.5)	6.05E-08	( 9.0)	3.47E-07
CZDG01F-PLG-LF	18	5.80E-04	( 77.5)	6.05E-08	( 10.0)	3.46E-07
RHR01AA-B00-LF	16	5.00E-04	( 85.0)	5.70E-08	( 11.0)	3.41E-07
CUDG01P-PMS-LF	17	1.10E-03	( 69.5)	5.70E-08	( 12.5)	3.41E-07
RHR02AA-PMS-LF	17	1.10E-03	( 69.5)	5.46E-08	( 12.5)	3.41E-07
RHR01BB-B00-LF	12	5.00E-04	( 85.0)	5.96E-08	( 14.0)	3.42E-07
CZDG01P-PMS-LF	13	1.10E-03	( 69.5)	5.95E-08	( 15.5)	3.41E-07
RHR02BB-PMS-LF	13	1.10E-03	( 69.5)	5.95E-08	( 15.5)	3.41E-07
CSCF062A-VCC-LF	14	5.00E-04	( 85.0)	5.95E-08	( 17.5)	3.41E-07
RHRF48AA-V00-LF	14	5.00E-04	( 85.0)	5.95E-08	( 17.5)	3.41E-07
RHRF48BB-V00-LF	11	5.00E-04	( 85.0)	5.95E-08	( 19.5)	3.41E-07
CSCF062B-VCC-LF	11	5.00E-04	( 85.0)	5.95E-08	( 19.5)	3.41E-07
LSC002A-P-UUM	15	3.00E-03	( 34.5)	5.94E-08	( 21.5)	3.40E-07
RHR02AA-P-UUM	15	3.00E-03	( 34.5)	5.94E-08	( 21.5)	3.40E-07
RHR02BB-P-UUM	12	3.00E-03	( 34.5)	5.93E-08	( 23.0)	3.40E-07
RHR01AX-HTX-LFB	17	6.20E-03	( 26.5)	5.92E-08	( 24.0)	3.40E-07
RHR01BX-HTX-LFB	14	6.20E-03	( 26.5)	5.91E-08	( 25.0)	3.40E-07
1ER36YB-BCO-LF	58	7.20E-05	(143.5)	5.10E-08	( 26.0)	2.71E-07
LPCI-MOV-CM2	7	2.50E-03	( 53.0)	3.71E-08	( 27.5)	1.36E-07
RHR301AX-STR	5	1.10E-04	(126.5)	1.66E-08	( 29.0)	1.36E-07
RHR301BX-STR	4	1.10E-04	(126.5)	1.66E-08	( 30.0)	7.12E-08
1ER25YA-BCO-LF	4	7.20E-05	(143.5)	1.64E-08	( 31.0)	6.56E-08
EE-CSCD300A-PLG	2	7.20E-04	( 75.0)	1.63E-08	( 32.0)	5.53E-08
1ER36YX-BCO-LF	4	7.20E-05	(143.5)	1.41E-08	( 33.0)	5.49E-08
1ER35YX-BCO-LF	1	7.20E-05	(143.5)	1.41E-08	( 36.0)	5.49E-08
1ER36YB-BCO-LF	1	7.20E-05	(143.5)	1.41E-08	( 36.0)	5.49E-08
1ER36Y1X-BCO-LF	1	7.20E-05	(143.5)	1.41E-08	( 36.0)	5.49E-08
NWB001X-BCO-LF	1	7.20E-05	(143.5)	1.41E-08	( 36.0)	5.49E-08
SEVR001X-BCO-LF	1	7.20E-05	(143.5)	1.41E-08	( 36.0)	5.49E-08
CCB0061P-BCO-LF	1	8.40E-05	(136.5)	1.41E-08	( 40.5)	5.49E-08
1ER16212-BCO	1	8.40E-05	(136.5)	1.41E-08	( 40.5)	5.49E-08
CCB2061P-BCO-LF	1	8.40E-05	(136.5)	1.41E-08	( 40.5)	5.49E-08
1ER16211-BCO	1	8.40E-05	(136.5)	1.41E-08	( 40.5)	5.49E-08
RHRF656A-N-UUM	1	3.00E-04	(108.0)	1.41E-08	( 60.0)	5.49E-08
RHRF60BB-S-UUM	1	3.00E-04	(108.0)	1.41E-08	( 60.0)	5.49E-08
RHRF60AA-S-UUM	1	3.00E-04	(108.0)	1.41E-08	( 60.0)	5.49E-08

RHRF51AA-N-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF55BX-R-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF48BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
CZDGG01F-S-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF47BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF47AA-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF74BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
SCSF06BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF48AA-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF55AX-R-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF51BB-N-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
CODGG01F-S-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF65BB-N-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
PC02MAX-ADD-LFO	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF64AA-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
SCSF06BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF74AA-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
NWY01AX-A-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
ZDGG01PSC-000-LFO	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
SCSF06BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
CSCD300B-S-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
CSCD300A-S-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF88BX-R-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
SEVY03AX-A-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
SCSF06AA-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRH01BX-R-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRH01AX-R-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF64BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
ZDGG01PK16CA-LFO	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF88AX-R-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF87BB-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
RHRF87AA-V-UUM	1	3.00E-04	(108.0)	1.41E-08	(60.0)	0.00E+00	5.49E-08
NWY01CA-F-UUM	1	5.00E-04	(85.0)	1.41E-08	(79.0)	0.00E+00	5.49E-08
ZDGG1PK18-ROO-LFO	1	5.00E-04	(85.0)	1.41E-08	(79.0)	0.00E+00	5.49E-08
SEVY03CB-F-UUM	1	5.00E-04	(85.0)	1.41E-08	(79.0)	0.00E+00	5.49E-08
NWY01CA-FMS-LF	1	5.40E-04	(79.5)	1.41E-08	(81.5)	0.00E+00	5.49E-08
SEVY03CB-FMS-LF	1	5.40E-04	(79.5)	1.41E-08	(81.5)	0.00E+00	5.49E-08
NWY01AX-ACX-LF1	1	8.40E-04	(72.5)	1.41E-08	(83.5)	0.00E+00	5.49E-08
SEVY03AX-ACX-LF1	1	8.40E-04	(72.5)	1.41E-08	(83.5)	0.00E+00	5.49E-08
CZDGG01P-FMS-CC	1	2.50E-03	(53.0)	1.41E-08	(87.5)	0.00E+00	5.48E-08
RHRB01BB-BOO-CC	1	2.50E-03	(53.0)	1.41E-08	(87.5)	0.00E+00	5.48E-08
RHRB01AA-BOO-CC	1	2.50E-03	(53.0)	1.41E-08	(87.5)	0.00E+00	5.48E-08
CODGG01P-PMS-CC	1	2.50E-03	(53.0)	1.41E-08	(87.5)	0.00E+00	5.48E-08
NWY01CA-FMS-CC	1	2.50E-03	(53.0)	1.41E-08	(87.5)	0.00E+00	5.48E-08
SEVY03CB-FMS-CC	1	2.50E-03	(53.0)	1.41E-08	(87.5)	0.00E+00	5.48E-08
CZDGG01P-P-UUM	1	3.00E-03	(34.5)	1.41E-08	(92.5)	0.00E+00	5.46E-08
RHRC02BB-P-NDUUM	1	3.00E-03	(34.5)	1.41E-08	(92.5)	0.00E+00	5.46E-08
RHRC02AA-P-NDUUM	1	3.00E-03	(34.5)	1.41E-08	(92.5)	0.00E+00	5.46E-08
CODGG01P-P-UUM	153	2.10E-03	(62.0)	1.41E-08	(95.0)	0.00E+00	4.34E-08
RA-1-1-27H	153	1.60E-01	(13.0)	1.04E-08	(96.0)	0.00E+00	3.92E-08
SUR-003-L	5	9.40E-05	(134.0)	7.36E-09	(97.0)	0.00E+00	2.14E-08
02							

LPC1-MOV-BETA	14	3.00E-02 ( 15.0)	6.02E-09 ( 98.0)	0.00E+00	1.87E-08
PA-2-11-27H	56	1.60E-03 ( 65.0)	4.09E-09 ( 99.0)	0.00E+00	1.42E-08
LPC1-BETA	7	1.10E-01 ( 14.0)	2.76E-04 ( 100.0)	0.00E+00	8.58E-09
TE42YB-V-UJM	4	1.00E-04 ( 130.5)	2.01E-09 ( 101.5)	0.00E+00	5.15E-09
1EB236B-B-UJM	4	1.00E-04 ( 130.5)	2.01E-09 ( 101.5)	0.00E+00	5.15E-09
1EB235A-B-UJM	3	1.00E-04 ( 130.5)	1.48E-09 ( 103.5)	0.00E+00	3.68E-09
TE41YA-V-UJM	3	1.00E-04 ( 130.5)	1.48E-09 ( 103.5)	0.00E+00	3.68E-09
CONT-LEAK	530	7.50E-01 ( 12.0)	1.04E-09 ( 105.0)	0.00E+00	0.00E+00
RA-5V-1-2H	67	2.10E-03 ( 62.0)	8.52E-10 ( 106.0)	0.00E+00	3.24E-09
LAK188RB-R00-LFO	32	2.00E-02 ( 20.0)	3.52E-10 ( 107.5)	0.00E+00	1.57E-09
LAX9RRCB-R00-LFO	32	2.00E-02 ( 20.0)	3.52E-10 ( 107.5)	0.00E+00	1.57E-09
LAK935RC-R00-LFO	30	2.00E-02 ( 20.0)	3.07E-10 ( 109.0)	0.00E+00	1.20E-09
LAK18ARA-R00-LFO	32	2.00E-02 ( 20.0)	3.01E-10 ( 111.0)	0.00E+00	1.44E-09
LAK10RCA-R00-LFO	32	2.00E-02 ( 20.0)	3.01E-10 ( 111.0)	0.00E+00	1.44E-09
LAK9ARCA-R00-LFO	32	2.00E-02 ( 20.0)	3.01E-10 ( 111.0)	0.00E+00	1.44E-09
LAK93ARC-R00-LFO	30	2.00E-02 ( 20.0)	2.70E-10 ( 113.0)	0.00E+00	1.08E-09
LAK39RCB-R00-LFO	6	3.40E-03 ( 28.5)	2.37E-10 ( 114.0)	0.00E+00	8.92E-10
RHR003B-P-UJM	6	3.00E-03 ( 34.5)	2.25E-10 ( 115.0)	0.00E+00	8.11E-10
LAK148RC-R00-LFO	11	2.00E-02 ( 20.0)	2.18E-10 ( 116.0)	0.00E+00	1.01E-09
LAK3ARCA-R00-LFO	5	3.40E-03 ( 28.5)	1.85E-10 ( 117.0)	0.00E+00	7.20E-10
LAK14ARC-R00-LFO	2	2.00E-02 ( 20.0)	1.67E-10 ( 118.0)	0.00E+00	7.93E-10
EE-CSC0300B-PLG	10	7.20E-04 ( 75.0)	7.49E-11 ( 119.5)	0.00E+00	2.11E-10
EE-C2D001F-PLG	2	7.20E-04 ( 75.0)	7.49E-11 ( 119.5)	0.00E+00	2.11E-10
TDRFP-T-OE-27H	58	2.60E-03 ( 46.0)	6.07E-11 ( 121.0)	0.00E+00	8.33E-11
RA-7-1-27H	2	2.10E-03 ( 62.0)	4.24E-11 ( 122.0)	0.00E+00	5.62E-11
LAK9ACP3-LFOO	1	2.90E-03 ( 42.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
LAK18BCP1-LFOO	1	2.90E-03 ( 42.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
LAK18ACP1-LFOO	1	2.90E-03 ( 42.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
LAK10ACP9-LFOO	1	2.90E-03 ( 42.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
LAK9BCP3-LFOO	1	2.90E-03 ( 42.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
RHR488B-V00-CC	1	2.50E-03 ( 53.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
RHR45AA-V00-CC	1	2.50E-03 ( 53.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
CSCF068B-VCC-CC	1	2.50E-03 ( 53.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
CSCF068A-VCC-CC	1	2.50E-03 ( 53.0)	2.96E-11 ( 125.0)	0.00E+00	5.21E-11
LAK938CP3-LFCC	1	2.90E-03 ( 42.0)	2.26E-11 ( 129.5)	0.00E+00	4.29E-11
LAK93ACP3-LFCC	1	2.90E-03 ( 42.0)	2.26E-11 ( 129.5)	0.00E+00	4.29E-11
1EDC2DEP-FKP-27H	2	3.20E-03 ( 30.0)	2.03E-11 ( 134.0)	0.00E+00	6.07E-11
MFS-RESET-OE-27H	4	2.10E-03 ( 62.0)	1.14E-11 ( 135.0)	0.00E+00	9.93E-12
1EB36YB-B-UJM	4	1.00E-04 ( 130.5)	4.22E-12 ( 136.5)	0.00E+00	5.89E-12
1E36YB-V-UJM	4	1.00E-04 ( 130.5)	4.22E-12 ( 136.5)	0.00E+00	5.89E-12
FLOW-RHR-B3	44	1.00E+00 ( 6.6)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
RA-NONE	269	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
FLOW-RHR-A3	47	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
NOFLOW-SPC-B5X	11	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
NOFLOW-SPC-A5X	10	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
NOFLOW-RHR-B1	4	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
NOFLOW-RHR-A1	5	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
NOFLOW-CSS-B7A	11	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
NOFLOW-CSS-A7A	10	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
SU-F068B-DENER	15	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00
SU-F068A-DENER	15	1.00E+00 ( 6.0)	0.00E+00 ( 143.0)	0.00E+00	0.00E+00

SEQUENCE TL14  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
SUR-003-L	153	1.60E-01 (13.0)	69.1	NA	0.82
COG01F-S-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
RHR01BX-R-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
CSC0300B-S-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
C20G01F-S-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
SEVY03AX-A-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
RHR01AX-R-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
NAVY01AX-A-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
CSC0300A-S-UUM	1	3.00E-04 (108.0)	7.2	NA	0.97
CONT-LEAK	530	7.50E-01 (12.0)	6.9	NA	0.75
RHR01BX-RTX-LFE	14	6.20E-03 (26.5)	5.9	NA	0.95
RHR01AX-RTX-LFB	17	6.20E-03 (26.5)	5.9	NA	0.95
1EB16211-BCO	1	8.40E-05 (136.5)	5.2	NA	1.00
CCB0G1P-BCO-LF	1	8.40E-05 (136.5)	5.2	NA	1.00
1EB16212-BCO	1	8.40E-05 (136.5)	5.2	NA	1.00
CCB20G1P-BCO-LF	1	8.40E-05 (136.5)	5.2	NA	1.00
1EB2368-8-UUM	4	1.00E-04 (130.5)	5.1	NA	1.00
1E41YA-V-UUM	3	1.00E-04 (130.5)	5.1	NA	1.00
1EB36YB-B-UUM	4	1.00E-04 (130.5)	5.1	NA	1.00
1E42YB-V-UUM	3	1.00E-04 (130.5)	5.1	NA	1.00
1EB235A-8-UUM	4	1.00E-04 (130.5)	5.1	NA	1.00
1E36YB-V-UUM	4	1.00E-04 (130.5)	5.1	NA	1.00
1EB235A-BCO-LF	52	7.20E-05 (143.5)	5.0	NA	1.15
1EB352X-BCO-LF	1	7.20E-05 (143.5)	5.0	NA	1.15
1EB235XA-BCO-LF	4	7.20E-05 (143.5)	5.0	NA	1.15
1EB36YK-BCO-LF	1	7.20E-05 (143.5)	5.0	NA	1.15
NAVY0G1X-BCO-LF	1	7.20E-05 (143.5)	5.0	NA	1.15
1EB2368-BCO-LF	58	7.20E-05 (143.5)	5.0	NA	1.15
1EB235YA-BCO-LF	4	7.20E-05 (143.5)	5.0	NA	1.15
1EB36XB-BCO-LF	1	7.20E-05 (143.5)	5.0	NA	1.15
SEVY001X-BCO-LF	1	7.20E-05 (143.5)	5.0	NA	1.15
1EB36YB-BCO-LF	58	7.20E-05 (143.5)	5.0	NA	1.15
EE-CSC0300B-PLG	2	7.20E-04 (75.0)	2.8	NA	1.00
EE-CSC0300A-PLG	2	7.20E-04 (75.0)	2.8	NA	1.00
EE-C20G01F-PLG	2	7.20E-04 (75.0)	2.8	NA	1.00
NAVY01CA-F-UUM	1	5.00E-04 (85.0)	2.8	NA	1.00
SEVY03CB-F-UUM	1	5.00E-04 (85.0)	2.8	NA	0.95
RHR02AA-PMS-LF	17	1.10E-03 (69.5)	2.8	NA	0.95
RHR02BB-PMS-LF	13	1.10E-03 (69.5)	2.8	NA	0.99
CUG001P-PMS-LF	17	1.10E-03 (69.5)	2.8	NA	0.99
C20G01P-PMS-LF	13	1.10E-03 (69.5)	2.8	NA	1.01
RHR74AA-V-UUM	1	3.00E-04 (108.0)	2.7	NA	1.01
RHR76AA-S-UUM	1	3.00E-04 (108.0)	2.7	NA	1.01
RHR76BB-N-UUM	1	3.00E-04 (108.0)	2.7	NA	1.01
RHR74AA-V-UUM	1	3.00E-04 (108.0)	2.7	NA	1.01

RHRF47BB-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF47AA-V-L JM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF51AA-N-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF51BB-N-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF48BB-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF64BB-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF65AA-N-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF60BB-S-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF87BB-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF74BB-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
CSCF06BB-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF55AX-R-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
CSCF09BA-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF88BX-R-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF64AA-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
SCSF06BB-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
SCSF06AA-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF88AX-R-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF87AA-V-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
RHRF55BX-R-UJM	1	3.00E-04 (108.0)	2.7	( 53.5)	NA	1.01
SEVY03AX-ACX-LFI	1	8.40E-04 ( 72.5)	2.6	( 66.5)	NA	1.00
NWVY01AX-ACX-LFI	1	8.40E-04 ( 72.5)	2.6	( 66.5)	NA	1.00
LAK93BRC-R00-LFO	30	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK93ARC-R00-LFO	30	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK18BRB-R00-LFO	32	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK18ARA-R00-LFO	32	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK14BRC-R00-LFO	11	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK14ARC-R00-LFO	10	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK10RCA-R00-LFO	32	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK9BRCB-R00-LFO	32	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
LAK9ARCA-R00-LFO	32	2.00E-02 ( 20.0)	2.4	( 72.0)	NA	1.01
Q2	5	9.40E-05 (134.0)	2.2	( 77.0)	NA	1.00
NWVY01CA-FMS-LF	1	5.40E-04 ( 79.5)	2.2	( 78.5)	NA	1.00
SEVY03CB-FMS-LF	1	5.40E-04 ( 79.5)	2.2	( 78.5)	NA	1.00
C2DG01P-P-UJM	1	3.00E-03 ( 34.5)	1.9	( 81.5)	NA	1.02
RHRC02BB-P-NDUUM	1	3.00E-03 ( 34.5)	1.9	( 81.5)	NA	1.02
RHRC02AA-P-NDUUM	1	3.00E-03 ( 34.5)	1.9	( 81.5)	NA	1.02
C00G01P-P-UJM	1	3.00E-03 ( 34.5)	1.9	( 81.5)	NA	1.02
1EDC2DEP-FRP-27H	2	3.20E-03 ( 30.0)	1.7	( 84.0)	NA	1.00
TDRFP-1-0E-27H	58	2.60E-03 ( 46.0)	1.6	( 85.0)	NA	1.00
LAK9ACP3-LFOO	1	2.90E-03 ( 42.0)	1.5	( 89.0)	NA	1.00
LAK93BCP3-LFCC	1	2.90E-03 ( 42.0)	1.5	( 89.0)	NA	1.00
LAK93ACP3-LFCC	1	2.90E-03 ( 42.0)	1.5	( 89.0)	NA	1.00
LAK18BCP1-LFOO	1	2.90E-03 ( 42.0)	1.5	( 89.0)	NA	1.00
LAK18ACP1-LFOO	1	2.90E-03 ( 42.0)	1.5	( 89.0)	NA	1.00
LAK10ACP9-LFOO	1	2.90E-03 ( 42.0)	1.5	( 89.0)	NA	1.00
LAK9BCP3-LFOO	1	2.90E-03 ( 42.0)	1.5	( 89.0)	NA	1.00
PC02AAAX-A00-LFO	1	3.00E-04 (108.0)	1.5	( 94.0)	NA	1.00
2DG01PSC-000-LFO	1	3.00E-04 (108.0)	1.5	( 94.0)	NA	1.00
2DG01PK18CA-LFOO	1	3.00E-04 (108.0)	1.5	( 94.0)	NA	1.00
CSCD300B-PLG-LF	36	1.20E-03 ( 66.5)	1.4	( 96.5)	NA	1.05
CSCD300A-PLG-LF	38	1.20E-03 ( 66.5)	1.4	( 96.5)	NA	1.05

Q1		495	6.20E-03	( 25.0)	1.2	( 98.0)	NA	1.00
C20G1F-PLG-LF	15	5.80E-04	( 77.5)	1.2	( 99.5)	NA	1.02	
C00G01F-PLG-LF	18	5.80E-04	( 77.5)	1.2	( 99.5)	NA	1.02	
SUR-805-L	377	4.60E-04	( 90.0)	0.3	(101.0)	NA	0.68	
LAK39RCB-RCO-LFO	6	3.40E-03	( 28.5)	0.0	(119.5)			
C20G01P-PMS-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
RHRF488B-V00-LF	11	5.00E-04	( 85.0)	0.0	(119.5)			
RHRF488B-V00-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
LAK3APCA-RCO-LFO	5	3.40E-03	( 28.5)	0.0	(119.5)			
RHRF48AA-V00-LF	14	5.00E-04	( 85.0)	0.0	(119.5)			
RHRF48AA-V00-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
RHRC02BB-P-UUM	12	3.00E-03	( 34.5)	0.0	(119.5)			
RHRC02AA-P-UUM	15	3.00E-03	( 34.5)	0.0	(119.5)			
RHRC003B-P-UUM	6	3.00E-03	( 34.5)	0.0	(119.5)			
RHRB018B-800-LF	12	5.00E-04	( 85.0)	0.0	(119.5)			
RHRB018B-800-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
RHRB01AA-800-LF	16	5.00E-04	( 85.0)	0.0	(119.5)			
RHRB01AA-800-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
RHRB01BX-STR	4	1.10E-04	(126.5)	0.0	(119.5)			
C00G01P-PMS-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
RHB301AX-STR	5	1.10E-04	(126.5)	0.0	(119.5)			
RA-7-1-27H	2	2.10E-03	( 62.0)	0.0	(119.5)			
RA-5V-1-2H	67	2.10E-03	( 62.0)	0.0	(119.5)			
RA-2-11-27H	56	1.60E-03	( 65.0)	0.0	(119.5)			
RA-1-27H	153	2.10E-03	( 62.0)	0.0	(119.5)			
DPFAIL-VENT-2H	222	2.10E-03	( 62.0)	0.0	(119.5)			
CSCF068B-VCC-LF	11	5.00E-04	( 85.0)	0.0	(119.5)			
NWY01CA-FMS-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
CSCF068B-VCC-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
CSCF068A-VCC-LF	14	5.00E-04	( 85.0)	0.0	(119.5)			
Z0G1PK18-R00-LFO	1	5.00E-04	( 85.0)	0.0	(119.5)			
CSCF068A-VCC-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
MFS-RESET-DE-27H	4	2.10E-03	( 62.0)	0.0	(119.5)			
SEVY03B-FMS-CC	1	2.50E-03	( 53.0)	0.0	(119.5)			
LPCI-PMS-DM	7	2.50E-03	( 53.0)	0.0	(119.5)			
LPCI-MOV-DM2	7	2.50E-03	( 53.0)	0.0	(119.5)			
LPCI-MOV-DM1	7	2.50E-03	( 53.0)	0.0	(119.5)			
LPCI-MOV-BETA	14	3.00E-02	( 15.0)	0.0	(119.5)			
LPCI-BETA	7	1.10E-01	( 14.0)	0.0	(119.5)			
LCSC002A-P-UUM	15	3.00E-03	( 34.5)	0.0	(119.5)			
FLM-RHR-B3	44	1.00E+00	( 6.0)	0.0	(119.5)			
RA-NONE	269	1.00E+00	( 6.0)	0.0	(119.5)			
FLM-RHR-A3	47	1.00E+00	( 6.0)	0.0	(119.5)			
NOFLOW-SPC-BSX	11	1.00E+00	( 6.0)	0.0	(119.5)			
NOFLOW-SPC-ASK	10	1.00E+00	( 6.0)	0.0	(119.5)			
NOFLOW-RHR-B1	4	1.00E+00	( 6.0)	0.0	(119.5)			
NOFLOW-RHR-A1	5	1.00E+00	( 6.0)	0.0	(119.5)			
NOFLOW-CSS-B7A	11	1.00E+00	( 6.0)	0.0	(119.5)			
NOFLOW-CSS-A7A	10	1.00E+00	( 6.0)	0.0	(119.5)			
SCSF068B-DENER	15	1.00E+00	( 6.0)	0.0	(119.5)			
SCSF06AA-DENER	18	1.00E+00	( 6.0)	0.0	(119.5)			

SEQUENCE TL14

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CP0581-TL-SEQ2B WITH TOP EVENT FREQUENCY 3.11E-09

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	105	8	3.41E-10	0.10950	CONT-LEAK	* IE-T5	* LPCI-BETA	* LPCI-PMS-DM
3					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-003-L
4	108	7	2.64E-10	0.19415	1EB235A-BCO-LF	* CONT-LEAK	* IE-T5	* Q1
5					RA-NONE	* RHR018X-HTX-LFB	* SUR-003-L	
6	109	7	2.64E-10	0.27879	1EB236B-BCO-LF	* CONT-LEAK	* IE-T5	* Q1
7					RA-NONE	* RHR01AX-HTX-LFB	* SUR-003-L	
8	134	8	1.28E-10	0.31975	1EB236B-BCO-LF	* CONT-LEAK	* IE-T5	* Q1
9					RA-NONE	* RHR02AA-P-UJM	* SCSF06AA-DENER	* SUR-003-L
10	136	8	1.28E-10	0.36070	1EB235A-BCO-LF	* CONT-LEAK	* IE-T5	* Q1
11					RA-NONE	* RHR02BB-P-UJM	* SCSF06BB-DENER	* SUR-003-L
12	135	7	1.28E-10	0.40166	1EB236B-BCO-LF	* CONT-LEAK	* IE-T5	* LCSC002A-P-UJM
13					Q1	* RA-NONE	* SUR-003-L	
14	120	8	9.30E-11	0.43152	CONT-LEAK	* IE-T5	* LPCI-MOV-BETA	* LPCI-MOV-DM1
15					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-003-L
16	119	8	9.30E-11	0.46139	CONT-LEAK	* IE-T5	* LPCI-MOV-BETA	* LPCI-MOV-DM2
17					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-003-L
18	2	6	8.77E-11	0.48955	CONT-LEAK	* IE-T101	* Q1	* RA-NONE
19					RHR018X-HTX-LFB	* SUR-005-L	* Q1	* RA-NONE
20	1	6	8.77E-11	0.51772	CONT-LEAK	* IE-T102	* Q1	
21					RHR01AX-HTX-LFB	* SUR-005-L		
22	167	7	5.10E-11	0.53410	1EB235A-BCO-LF	* CONT-LEAK	* CSCD300B-PLG-LF	* IE-T5
23					Q1	* RA-NONE	* SUR-003-L	
24	166	7	5.10E-11	0.55048	1EB236B-BCO-LF	* CONT-LEAK	* CSCD300A-PLG-LF	* IE-T5
25					Q1	* RA-NONE	* SUR-003-L	
26	160	7	4.68E-11	0.56550	1EB236B-BCO-LF	* CONT-LEAK	* CONT-LEAK	* IE-T5
27					Q1	* RA-NONE	* SUR-003-L	
28	157	7	4.68E-11	0.58052	1EB235A-BCO-LF	* CONT-LEAK	* IE-T5	* Q1
29					RA-NONE	* RHR02BB-PMS-LF	* SUR-003-L	
30	158	7	4.68E-11	0.59553	1EB236B-BCO-LF	* CONT-LEAK	* IE-T5	* Q1
31					RA-NONE	* RHR02AA-PMS-LF	* SUR-003-L	
32	159	7	4.68E-11	0.61055	1EB235A-BCO-LF	* C2D001P-PMS-LF	* CONT-LEAK	* IE-T5
33					Q1	* RA-NONE	* SUR-003-L	
34	3	6	4.24E-11	0.62418	CDDG01P-P-UJM	* CONT-LEAK	* IE-T102	* Q1
35					RA-NONE	* SUR-005-L	* LCSC002A-P-UJM	* Q1
36	5	6	4.24E-11	0.63781	CONT-LEAK	* IE-T102	* IE-T101	* Q1
37					RA-NONE	* SUR-005-L		
38	4	6	4.24E-11	0.65144	C2D001P-P-UJM	* CONT-LEAK	* Q1	* RA-NONE
39					RA-NONE	* SUR-005-L		
40	9	6	4.24E-11	0.66507	CONT-LEAK	* IE-T101	* Q1	* RA-NONE
41					RHR02BB-P-UJM	* SUR-005-L		
42	8	7	4.24E-11	0.67869	CONT-LEAK	* IE-T102	* Q1	* RA-NONE
43					RHR02AA-P-UJM	* SCSF06AA-DENER	* SUR-005-L	
44	7	6	4.24E-11	0.69232	CONT-LEAK	* IE-T102	* Q1	* RA-NONE







149	RA-NONE	SUR-005-L	*	SUR-005-L	*	IE-T101	*	Q1	*
150	ZD601PK18CA-LFOO	CONT-LEAK	*	CONT-LEAK	*	IE-T101	*	Q1	*
151	RA-NONE	SUR-005-L	*	SUR-005-L	*	PC02ANAX-ADD-LFO	*	Q1	*
152	CONT-LEAK	IE-T102	*	IE-T102	*	PC02ANAX-ADD-LFO	*	Q1	*
153	RA-NONE	SUR-005-L	*	SUR-005-L	*	IE-T101	*	Q1	*
154	C2D601F-S-UJM	CONT-LEAK	*	CONT-LEAK	*	IE-T101	*	Q1	*
155	RA-NONE	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
156	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
157	SEVY03AR-A-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
158	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
159	RHRF64BB-V-UJM	SCSF06BB-DENER	*	SCSF06BB-DENER	*	SUR-005-L	*	RA-NONE	*
160	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
161	SCSF06AA-V-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
162	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
163	RHRF64AA-V-UJM	SCSF06AA-DENER	*	SCSF06AA-DENER	*	SUR-005-L	*	RA-NONE	*
164	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
165	RHRF55BX-R-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
166	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
167	SCSF06BB-V-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
168	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
169	RA-NONE	FLOW-RHR-A3	*	FLOW-RHR-A3	*	IE-T102	*	Q1	*
170	CONT-LEAK	RHRF42AA-V-UJM	*	RHRF42AA-V-UJM	*	SUR-005-L	*	RA-NONE	*
171	RHR01AR-H-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
172	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
173	RHRF51BB-N-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
174	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
175	RHRF65BB-N-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
176	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
177	RHRF60AA-S-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
178	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
179	RHRF47AA-V-UJM	SCSF06AA-DENER	*	SCSF06AA-DENER	*	SUR-005-L	*	RA-NONE	*
180	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
181	RHRF65AA-N-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
182	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
183	RHRF87BB-V-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
184	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
185	RHRF47BB-V-UJM	SCSF06BB-DENER	*	SCSF06BB-DENER	*	SUR-005-L	*	RA-NONE	*
186	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
187	RHRF88BX-R-UJM	SCSF06BB-DENER	*	SCSF06BB-DENER	*	SUR-005-L	*	RA-NONE	*
188	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
189	RHRF74AA-V-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
190	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
191	RHRF88AX-R-UJM	SCSF06AA-DENER	*	SCSF06AA-DENER	*	SUR-005-L	*	RA-NONE	*
192	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
193	RHR018X-H-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
194	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
195	RHRF55AX-R-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
196	CONT-LEAK	IE-T102	*	IE-T102	*	Q1	*	RA-NONE	*
197	RHRF51AA-N-UJM	SUR-005-L	*	SUR-005-L	*	Q1	*	RA-NONE	*
198	CONT-LEAK	IE-T101	*	IE-T101	*	Q1	*	RA-NONE	*
199	RHRF60BB-S-UJM	SUR-005-L	*	SUR-005-L	*	IE-T101	*	Q1	*
200	CONT-LEAK	FLOW-RHR-B5	*	FLOW-RHR-B5	*	IE-T101	*	Q1	*



253	302	10	1.04E-12	0.97779	CONT-LEAK	* IE-T5	* LAK14ARC-ROO-LFO	* LAK18ARB-ROO-LFO
254					NOFLOW-CSS-A7A	* NOFLOW-SPC-ASX	* OPFAIL-VENT-2H	* Q1
255					RA-1-1-27H	* SUR-003-L		
256	301	8	1.04E-12	0.97812	CONT-LEAK	* IE-T5	* LAK18ARA-ROO-LFO	* LAK98RCB-ROO-LFO
257					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-003-L
258	306	10	1.04E-12	0.97846	CONT-LEAK	* IE-T5	* LAK14BRC-ROO-LFO	* LAK18ARA-ROO-LFO
259					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* OPFAIL-VENT-2H	* Q1
260					RA-1-1-27H	* SUR-003-L		
261	304	10	1.04E-12	0.97879	CONT-LEAK	* IE-T5	* LAK10RCA-ROO-LFO	* LAK14BRC-ROO-LFO
262					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* OPFAIL-VENT-2H	* Q1
263					RA-1-1-27H	* SUR-003-L		
264	300	8	1.04E-12	0.97912	CONT-LEAK	* IE-T5	* LAK9ARCA-ROO-LFO	* LAK98RCB-ROO-LFO
265					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-003-L
266	297	8	1.04E-12	0.97946	CONT-LEAK	* IE-T5	* LAK18ARB-ROO-LFO	* LAK9ARCA-ROO-LFO
267					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-003-L
268	296	8	1.04E-12	0.97979	CONT-LEAK	* IE-T5	* LAK10RCA-ROO-LFO	* LAK18ARB-ROO-LFO
269					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-003-L
270	293	9	1.04E-12	0.98013	CONT-LEAK	* FLOW-RHR-B3	* IE-T5	* LAK10RCA-ROO-LFO
271					LAK93BRC-ROO-LFO	* OPFAIL-VENT-2H	* Q1	* RA-1-1-27H
272					SUR-003-L			
273	292	9	1.04E-12	0.98046	CONT-LEAK	* FLOW-RHR-A3	* IE-T5	* LAK93ARC-ROO-LFO
274					LAK98RCB-ROO-LFO	* OPFAIL-VENT-2H	* Q1	* RA-1-1-27H
275					SUR-003-L			
276	291	9	1.04E-12	0.98080	CONT-LEAK	* FLOW-RHR-A3	* IE-T5	* LAK18ARB-ROO-LFO
277					LAK93ARC-ROO-LFO	* OPFAIL-VENT-2H	* Q1	* RA-1-1-27H
278					SUR-003-L			
279	298	8	1.04E-12	0.98113	CONT-LEAK	* IE-T5	* LAK18ARA-ROO-LFO	* LAK18ARB-ROO-LFO
280					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-003-L
281	294	9	1.04E-12	0.98147	CONT-LEAK	* FLOW-RHR-B3	* IE-T5	* LAK93BRC-ROO-LFO
282					LAK9ARCA-ROO-LFO	* OPFAIL-VENT-2H	* Q1	* RA-1-1-27H
283					SUR-003-L			
284	98	6	1.02E-12	0.98179	1EB35Y2X-BCO-LF	* CONT-LEAK	* IE-T102	* Q1
285					RA-NONE	* SUR-005-L		
286	93	6	1.02E-12	0.98212	1EB36Y1X-BCO-LF	* CONT-LEAK	* IE-T101	* Q1
287					RA-NONE	* SUR-005-L		
288	100	6	1.02E-12	0.98245	CONT-LEAK	* IE-T102	* NWB001X-BCO-LF	* Q1
289					RA-NONE	* SUR-005-L		
290	95	6	1.02E-12	0.98277	1EB236B-BCO-LF	* CONT-LEAK	* IE-T9A	* Q1
291					RA-NONE	* SUR-005-L		
292	90	6	1.02E-12	0.98310	1EB235XA-BCO-LF	* CONT-LEAK	* IE-T102	* Q1
293					RA-NONE	* SUR-005-L		
294	88	6	1.02E-12	0.98343	1EB36YB-BCO-LF	* CONT-LEAK	* IE-T101	* Q1
295					RA-NONE	* SUR-005-L		
296	97	6	1.02E-12	0.98376	1EB235YA-BCO-LF	* CONT-LEAK	* IE-T102	* Q1
297					RA-NONE	* SUR-005-L		
298	89	6	1.02E-12	0.98408	1EB36YB-BCO-LF	* CONT-LEAK	* IE-T9A	* Q1
299					RA-NONE	* SUR-005-L		
300	91	6	1.02E-12	0.98441	1EB235A-BCO-LF	* CONT-LEAK	* IE-T102	* Q1
301					RA-NONE	* SUR-005-L		
302	94	6	1.02E-12	0.98474	1EB235A-BCO-LF	* CONT-LEAK	* IE-T9B	* Q1
303					RA-NONE	* SUR-005-L		
304	92	6	1.02E-12	0.98506	1EB36XB-BCO-LF	* CONT-LEAK	* IE-T101	* Q1
305					RA-NONE	* SUR-005-L		

306	96	6	1.02E-12	0.98539	1EB236B-BCD-LF	* CONT-LEAK	* 1E-T101	* Q1	*
307					RA-NONE	* SUR-005-L	+		*
308	99	6	1.02E-12	0.98572	CONT-LEAK	* 1E-T101	* Q1	* RA-NONE	*
309					SEVB001X-BCD-LF	* SUR-005-L	+		*
310	104	7	1.01E-12	0.98604	1EB236B-BCD-LF	* C00G01P-PMS-LF	* CONT-LEAK	* 1E-T1	*
311					Q1	* RA-NONE	* SUR-005-L	+	*
312	102	7	1.01E-12	0.98637	1EB236B-BCD-LF	* CONT-LEAK	* 1E-T1	* Q1	*
313					RA-NONE	* RHRC02AA-PMS-LF	* SUR-005-L	+	*
314	101	7	1.01E-12	0.98669	1EB235A-BCD-LF	* CONT-LEAK	* 1E-T1	* Q1	*
315					RA-NONE	* RHRC02BB-PMS-LF	* SUR-005-L	+	*
316	103	7	1.01E-12	0.98701	1EB235A-BCD-LF	* C20G01P-PMS-LF	* CONT-LEAK	* 1E-T1	*
317					Q1	* RA-NONE	* SUR-005-L	+	*
318	309	8	8.63E-13	0.98729	C20G01F-PLG-LF	* CONT-LEAK	* CSCD300A-PLG-LF	* 1E-T5	*
319					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-003-L	+
320	308	8	8.63E-13	0.98757	C00G01F-PLG-LF	* CONT-LEAK	* CSCD300B-PLG-LF	* 1E-T5	*
321					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-003-L	+
322	313	11	7.93E-13	0.98782	CONT-LEAK	* FLOW-RHR-B3	* 1E-T5	* LAK14ARC-ROO-LFO	*
323					LAK93BRC-ROO-LFO	* NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* OPFAIL-VENT-2H	*
324					Q1	* RA-2-11-27H	* SUR-003-L	+	*
325	312	11	7.93E-13	0.98808	CONT-LEAK	* FLOW-RHR-A3	* 1E-T5	* LAK14BRC-ROO-LFO	*
326					LAK93ARC-ROO-LFO	* NOFLOW-CSS-B7A	* NOFLOW-S/C-B5X	* OPFAIL-VENT-2H	*
327					Q1	* RA-2-11-27H	* SUR-003-L	+	*
328	311	10	7.93E-13	0.98833	CONT-LEAK	* FLOW-RHR-A3	* FLOW-RHR-B3	* 1E-T5	*
329					LAK93ARC-ROO-LFO	* LAK93BRC-ROO-LFO	* OPFAIL-VENT-2H	* Q1	*
330					RA-2-11-27H	* SUR-003-L	+		*
331	107	7	7.70E-13	0.98858	1EB235A-BCD-LF	* CONT-LEAK	* 1E-T3	* Q1	*
332					RA-NONE	* RHRH01BX-HTX-LFB	* SUR-005-L	+	*
333	106	7	7.70E-13	0.98883	1EB236B-BCD-LF	* CONT-LEAK	* 1E-T3	* Q1	*
334					RA-NONE	* RHRH01AX-HTX-LFB	* SUR-005-L	+	*
335	321	8	7.44E-13	0.98907	CONT-LEAK	* CSCD300A-PLG-LF	* CSCF068B-VCC-LF	* 1E-T5	*
336					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-003-L	+
337	320	8	7.44E-13	0.98931	CONT-LEAK	* CSCD300B-PLG-LF	* CSCF068A-VCC-LF	* 1E-T5	*
338					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-003-L	+
339	318	8	7.44E-13	0.98954	CONT-LEAK	* CSCD300A-PLG-LF	* 1E-T5	* OPFAIL-VENT-2H	*
340					Q1	* RA-NONE	* RHRB01BB-BOO-LF	* SUR-003-L	+
341	317	8	7.44E-13	0.98978	CONT-LEAK	* CSCD300B-PLG-LF	* 1E-T5	* OPFAIL-VENT-2H	*
342					Q1	* RA-NONE	* RHRB01AA-BOO-LF	* SUR-003-L	+
343	316	9	7.44E-13	0.99002	CONT-LEAK	* CSCD300A-PLG-LF	* FLOW-RHR-B3	* 1E-T5	*
344					OPFAIL-VENT-2H	* Q1	* RA-NONE	* RHRF488B-V00-LF	*
345					SUR-003-L	+			*
346	315	9	7.44E-13	0.99026	CONT-LEAK	* CSCD300B-PLG-LF	* FLOW-RHR-A3	* 1E-T5	*
347					OPFAIL-VENT-2H	* Q1	* RA-NONE	* RHRF488A-V00-LF	*
348					SUR-003-L	+			*
349	111	7	6.57E-13	0.99047	1EB235A-BCD-LF	* CONT-LEAK	* 1E-T2	* Q1	*
350					RA-NONE	* RHRH01BX-HTX-LFB	* SUR-005-L	+	*
351	110	7	6.57E-13	0.99068	1EB236B-BCD-LF	* CONT-LEAK	* 1E-T2	* Q1	*
352					RA-NONE	* RHRH01AX-HTX-LFB	* SUR-005-L	+	*
353	113	6	5.94E-13	0.99087	CONT-LEAK	* 1E-T102	* LAK18ARA-ROO-LFO	* Q1	*
354					RA-1-1-27H	* SUR-005-L	+		*
355	112	6	5.94E-13	0.99106	CONT-LEAK	* 1E-T102	* LAK9ARCA-ROO-LFO	* Q1	*
356					RA-1-1-27H	* SUR-005-L	+		*

SEQUENCE TL16

TOP EVENT CPO5B2-TL-SEQ2B CONTAINS 158 EVENTS IN 530 CUT SETS

THE FREQUENCY OF TOP EVENT CPO5B2-TL-SEQ2B IS 3.62E-10

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT CPO5B2-TL-SEQ2B

N	300
MEAN	9.04E-10
STD DEV	3.42E-09
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	4.73E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

$\frac{\partial}{\partial J}$  = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
= TEF - TEF(EVALUATED WITH  $EV(J) = 0$ )

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
= TEF(EVALUATED WITH  $EV(J) = 1$ ) - TEF

SEQUENCE TL16  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
Q1	495	8.20E-03 ( 25.0)	3.60E-10 ( 1.0)	0.00E+00	4.70E-09
RA-NONE	269	1.00E+00 ( 6.0)	3.59E-10 ( 2.0)		
SUR-026-R	377	3.50E-04 ( 90.0)	2.88E-10 ( 3.0)	0.00E+00	3.68E-09
SUR-025-R	153	1.80E-02 ( 24.0)	7.42E-11 ( 4.0)	0.00E+00	6.75E-10
1E82368-BCO-LF	58	7.20E-05 (143.5)	3.52E-11 ( 5.0)	0.00E+00	3.19E-10
RHR01AX-HTX-LFB	17	6.20E-03 ( 26.5)	3.44E-11 ( 6.0)	0.00E+00	4.63E-10
RHR018X-HTX-LFB	14	6.20E-03 ( 26.5)	3.44E-11 ( 7.0)	0.00E+00	4.63E-10
1E8235A-BCO-LF	52	7.20E-05 (143.5)	2.95E-11 ( 8.0)	0.00E+00	2.83E-10
OPFAIL-VENT-24	222	2.10E-03 ( 62.0)	2.28E-11 ( 9.0)	0.00E+	1.34E-10
SCSF06AA-DENER	18	1.00E+00 ( 6.0)	1.99E-11 ( 10.0)		
SCSF06BB-DENER	15	1.00E+00 ( 6.0)	1.99E-11 ( 11.0)		
RHRC02AA-P-UUM	15	3.00E-03 ( 34.5)	1.66E-11 ( 12.5)	0.00E+00	8.22E-11
LCSC002A-P-UUM	15	3.00E-03 ( 34.5)	1.66E-11 ( 12.5)	0.00E+00	8.22E-11
RHRC02BB-P-UUM	12	3.00E-03 ( 34.5)	1.66E-11 ( 14.0)	0.00E+00	8.21E-11
LPCI-PMS-OM	7	2.50E-03 ( 53.0)	1.28E-11 ( 15.5)	0.00E+00	6.65E-11
LPCI-BETA	7	1.10E-01 ( 13.0)	1.28E-11 ( 15.5)	0.00E+00	6.65E-11
C2D001P-P-UUM	1	3.00E-03 ( 34.5)	1.08E-11 ( 18.5)	0.00E+00	1.02E-10
RHRC02BB-P-UUM	1	3.00E-03 ( 34.5)	1.08E-11 ( 18.5)	0.00E+00	1.02E-10
RHRC02AA-P-UUM	1	3.00E-03 ( 34.5)	1.08E-11 ( 18.5)	0.00E+00	1.02E-10
C00601P-P-UUM	1	3.00E-03 ( 34.5)	1.08E-11 ( 18.5)	0.00E+00	1.02E-10
C00601P-PMS-CC	1	2.50E-03 ( 53.0)	8.97E-12 ( 23.5)	0.00E+00	8.70E-11
RHR01BB-BOO-CC	1	2.50E-03 ( 53.0)	8.97E-12 ( 23.5)	0.00E+00	8.70E-11
NWY01CA-FMS-CC	1	2.50E-03 ( 53.0)	8.97E-12 ( 23.5)	0.00E+00	8.70E-11
SEVY03CB-FMS-CC	1	2.50E-03 ( 53.0)	8.97E-12 ( 23.5)	0.00E+00	8.70E-11
RHR01AA-BOO-CC	1	2.50E-03 ( 53.0)	8.97E-12 ( 23.5)	0.00E+00	8.70E-11
C2D001P-PMS-CC	1	2.50E-03 ( 53.0)	8.97E-12 ( 23.5)	0.00E+00	8.70E-11
CSCD300B-PLG-LF	36	1.20E-03 ( 66.5)	8.72E-12 ( 27.0)	0.00E+00	9.63E-11
CSCD300A-PLG-LF	38	1.20E-03 ( 66.5)	8.55E-12 ( 28.0)	0.00E+00	9.57E-11
LPCI-MOV-BETA	14	3.00E-02 ( 14.0)	6.99E-12 ( 29.0)	0.00E+00	3.16E-11
RHRC02AA-FMS-LF	17	1.10E-03 ( 69.5)	6.12E-12 ( 30.5)	0.00E+00	4.92E-11
C00601P-PMS-LF	17	1.10E-03 ( 69.5)	6.12E-12 ( 30.5)	0.00E+00	4.92E-11
RHRC02BB-FMS-LF	13	1.10E-03 ( 69.5)	6.12E-12 ( 32.5)	0.00E+00	4.91E-11
C2D001P-PMS-LF	13	1.10E-03 ( 69.5)	6.12E-12 ( 32.5)	0.00E+00	4.91E-11
YLOW-RHR-B3	44	1.00E+00 ( 6.0)	4.26E-12 ( 34.0)		
FLOW-RHR-A3	47	1.00E+00 ( 6.0)	4.22E-12 ( 35.0)		
LPCI-MOV-CM1	7	2.50E-03 ( 53.0)	3.49E-12 ( 36.5)	0.00E+00	1.58E-11
LPCI-MOV-CM2	7	2.50E-03 ( 53.0)	3.49E-12 ( 36.5)	0.00E+00	1.58E-11
C2D001F-PLG-LF	15	5.80E-04 ( 77.5)	3.27E-12 ( 38.0)	0.00E+00	3.43E-11
CJ0601F-PLG-LF	18	5.80E-04 ( 77.5)	3.27E-12 ( 39.0)	0.00E+00	3.43E-11
NWY01AX-ACK-LF1	1	8.40E-04 ( 72.5)	3.01E-12 ( 40.5)	0.00E+00	1.79E-11
SEVY03AX-ACK-LF1	1	8.40E-04 ( 72.5)	3.01E-12 ( 40.5)	0.00E+00	1.79E-11
RHR01AA-BOO-LF	16	5.00E-04 ( 85.0)	2.78E-12 ( 42.0)	0.00E+00	3.23E-11
RHR01BB-BOO-LF	12	5.00E-04 ( 85.0)	2.78E-12 ( 43.0)	0.00E+00	3.23E-11
RHR045AA-VY0-LF	14	5.00E-04 ( 85.0)	2.77E-12 ( 44.5)	0.00E+00	2.20E-11
CSCF068A-VCC-LF	14	5.00E-04 ( 85.0)	2.77E-12 ( 44.5)	0.00E+00	2.20E-11

RHRF488B-V00-LF	11	5.00E-04 ( 85.0)	2.77E-12 ( 46.5)	0.00E+00	2.20E-11
CSCF068B-VCC-LF	11	5.00E-04 ( 85.0)	2.77E-12 ( 46.5)	0.00E+00	2.20E-11
EE-CSCD300A-PLG	2	7.20E-04 ( 75.0)	2.61E-12 ( 48.0)	0.00E+00	1.72E-11
RA-1-1-27H	153	2.10E-03 ( 62.0)	2.13E-12 ( 49.0)	0.00E+00	1.50E-11
NWY01CA-FMS-LF	1	5.40E-04 ( 79.5)	1.94E-12 ( 50.5)	0.00E+00	2.58E-11
SEVY03CB-FMS-LF	1	5.40E-04 ( 79.5)	1.94E-12 ( 50.5)	0.00E+00	2.58E-11
NWY01CA-F-UJM	1	5.00E-04 ( 85.0)	1.79E-12 ( 53.0)	0.00E+00	2.10E-11
2DG1PK18-ROO-LFO	1	5.00E-04 ( 85.0)	1.79E-12 ( 53.0)	0.00E+00	7.28E-12
SEVY03CB-F-UJM	1	5.00E-04 ( 85.0)	1.79E-12 ( 53.0)	0.00E+00	2.10E-11
RHRF55AA-N-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF64AA-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF60AA-S-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF55AX-R-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF51AA-N-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF74EB-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF48PS-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF74AA-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF65AA-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF67BB-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF47AA-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRH01AX-N-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	7.07E-12
RHRF64BB-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF87BB-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF65BB-N-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF51BB-N-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF87AA-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
CODG01F-S-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
PCD2AAAX-ADO-LFO	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
CSCF068B-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
NWY01AX-A-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	7.07E-12
CSCD300B-S-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	6.98E-12
2DG01PSC-000-LFO	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
CSCF008A-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
C2DG01F-S-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF88BX-R-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF60BB-S-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
2DG01PK18CA-LFO	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	6.98E-12
SEVY03AX-A-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	7.07E-12
CSCD300A-S-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
CSCF068B-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
CSCF06AA-V-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRH01BX-N-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF82AX-R-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
RHRF55BX-R-UJM	1	3.00E-04 (108.0)	1.08E-12 ( 72.0)	0.00E+00	8.17E-12
PA-2-11-27H	56	7.60E-03 ( 65.0)	8.24E-13 ( 90.0)	0.00E+00	3.86E-12
1EB36YB-BCO-LF	58	7.20E-05 (143.5)	5.89E-13 ( 91.0)	0.00E+00	5.51E-12
LAK188RB-ROO-LFO	32	2.00E-02 ( 19.0)	4.62E-13 ( 92.5)	0.00E+00	3.69E-12
LAK98CB-ROO-LFO	32	2.00E-02 ( 19.0)	4.62E-13 ( 92.5)	0.00E+00	3.69E-12
NOFLOW-RHR-A1	5	1.00E+00 ( 6.0)	4.27E-13 ( 94.5)	0.00E+00	4.00E-12
RHR301AX-STR	4	1.00E+00 ( 6.0)	4.27E-13 ( 96.5)	0.00E+00	4.00E-12
NOFLOW-RHR-B1	4	1.00E+00 (126.5)	4.27E-13 ( 96.5)	0.00E+00	4.00E-12
RHR301BX-STR	4	1.00E+00 (126.5)	4.27E-13 ( 96.5)	0.00E+00	4.00E-12



LAK18ARA-R00-LFO	32	2.00E-02 ( 19.0)	4.23E-13 ( 99.0)	0.00E+00	3.35E-12
LAK18RCA-R00-LFO	32	2.00E-02 ( 19.0)	4.23E-13 ( 99.0)	0.00E+00	3.35E-12
LAK19ARC-R00-LFO	30	2.00E-02 ( 19.0)	3.81E-13 (101.0)	0.00E+00	1.61E-12
LAK19SARC-R00-LFO	30	2.00E-02 ( 19.0)	3.42E-13 (102.0)	0.00E+00	1.45E-12
CCB00G1P-R00-LF	1	8.40E-05 (136.5)	3.01E-13 (104.5)	0.00E+00	2.80E-12
1EB16212-R00	1	8.40E-05 (136.5)	3.01E-13 (104.5)	0.00E+00	2.80E-12
1EB16211-R00	1	8.40E-05 (136.5)	3.01E-13 (104.5)	0.00E+00	2.80E-12
CCB20G1P-R00-LF	1	8.40E-05 (136.5)	2.71E-13 (108.0)	0.00E+00	1.12E-12
LAK14ARC-R00-LFO	11	2.00E-02 ( 19.0)	2.71E-13 (108.0)	0.00E+00	1.12E-12
NOFLOW-SPC-R5X	11	1.00E+00 ( 6.0)	2.71E-13 (108.0)	0.00E+00	1.12E-12
NOFLOW-CSS-B7A	11	1.00E+00 ( 6.0)	2.71E-13 (108.0)	0.00E+00	1.12E-12
1EB235YA-R00-LF	4	7.20E-05 (143.5)	2.65E-13 (110.0)	0.00E+00	2.49E-12
1EB235XA-R00-LF	4	7.20E-05 (143.5)	2.58E-13 (111.0)	0.00E+00	2.49E-12
1EB36Y1X-R00-LF	1	7.20E-05 (143.5)	2.58E-13 (114.0)	0.00E+00	2.49E-12
1EB36X8-R00-LF	1	7.20E-05 (143.5)	2.58E-13 (114.0)	0.00E+00	2.49E-12
1EB35Y2X-R00-LF	1	7.20E-05 (143.5)	2.58E-13 (114.0)	0.00E+00	2.49E-12
NWVB001X-R00-LF	1	7.20E-05 (143.5)	2.58E-13 (114.0)	0.00E+00	2.49E-12
SEVB001X-R00-LF	1	7.20E-05 (143.5)	2.58E-13 (114.0)	0.00E+00	2.49E-12
LAK14ARC-R00-LFO	10	2.00E-02 ( 19.0)	2.32E-13 (118.0)	0.00E+00	9.53E-13
NOFLOW-SPC-A5X	10	1.00E+00 ( 6.0)	2.32E-13 (118.0)	0.00E+00	9.53E-13
NOFLOW-CSS-A7A	10	1.00E+00 ( 6.0)	2.32E-13 (118.0)	0.00E+00	9.53E-13
O2	5	9.40E-05 (134.0)	1.76E-13 (120.0)	0.00E+00	6.13E-13
RA-5V-1-2H	67	2.10E-03 ( 62.0)	7.96E-14 (121.0)	0.00E+00	4.33E-13
LAK3R0B-R00-LFO	6	3.40E-03 ( 28.5)	5.22E-14 (122.0)	0.00E+00	2.63E-13
1E42Y8-V-UUM	4	1.00E-04 (130.5)	5.10E-14 (123.5)	0.00E+00	1.34E-13
1EB236B-B-UUM	4	1.00E-04 (130.5)	5.10E-14 (123.5)	0.00E+00	1.34E-13
LAK3ARCA-R00-LFO	5	3.40E-03 ( 28.5)	4.56E-14 (125.0)	0.00E+00	2.40E-13
RHR003B-P-UUM	6	3.00E-03 ( 34.5)	4.47E-14 (126.0)	0.00E+00	2.29E-13
TDRFP-1-0E-27H	58	2.60E-03 ( 46.0)	4.01E-14 (127.0)	0.00E+00	9.50E-14
1EB235A-B-UUM	3	1.00E-04 (130.5)	3.75E-14 (128.5)	0.00E+00	1.07E-13
1E41YA-V-UUM	3	1.00E-04 (130.5)	3.75E-14 (128.5)	0.00E+00	1.07E-13
RA-7-1-27H	2	2.10E-03 ( 62.0)	2.26E-14 (130.0)	0.00E+00	7.91E-14
LAK9ACP3-LFOO	1	2.90E-03 ( 42.0)	2.18E-14 (133.0)	0.00E+00	1.00E-13
LAK18BCP1-LFOO	1	2.90E-03 ( 42.0)	2.18E-14 (133.0)	0.00E+00	1.00E-13
LAK18ACP1-LFOO	1	2.90E-03 ( 42.0)	2.18E-14 (133.0)	0.00E+00	1.00E-13
LAK10ACP9-LFOO	1	2.90E-03 ( 42.0)	2.18E-14 (133.0)	0.00E+00	1.00E-13
LAK9BCP3-LFOO	1	2.90E-03 ( 42.0)	1.66E-14 (136.5)	0.00E+00	4.50E-14
LAK93ACP3-LFCC	1	2.90E-03 ( 42.0)	1.66E-14 (136.5)	0.00E+00	4.50E-14
1EDC2DEP-FRP-27H	2	3.20E-03 ( 30.0)	1.65E-14 (138.0)	0.00E+00	3.07E-14
RHR48RB-V00-CC	1	2.50E-03 ( 53.0)	1.43E-14 (140.5)	0.00E+00	4.21E-14
RHR48RA-V00-CC	1	2.50E-03 ( 53.0)	1.43E-14 (140.5)	0.00E+00	4.21E-14
CSCF068B-VCC-CC	1	2.50E-03 ( 53.0)	1.43E-14 (140.5)	0.00E+00	4.21E-14
CSCF068A-VCC-CC	1	2.50E-03 ( 53.0)	1.43E-14 (140.5)	0.00E+00	4.21E-14
EE-CSC0300B-PLG	2	7.20E-04 ( 75.0)	1.37E-14 (143.5)	0.00E+00	4.43E-14
EE-C20G01F-PLG	2	7.20E-04 ( 75.0)	1.37E-14 (143.5)	0.00E+00	4.43E-14
MFS-RESET-0E-27H	4	2.10E-03 ( 62.0)	6.07E-15 (145.0)	0.00E+00	2.69E-14
1EB36Y8-B-UUM	4	1.00E-04 (130.5)	1.07E-16 (146.5)	0.00E+00	3.25E-16
1E36Y8-V-UUM	4	1.00E-04 (130.5)	1.07E-16 (146.5)	0.00E+00	3.25E-16
CONT-LEAK	530	7.50E-01 ( 12.0)	-1.09E-09 (148.0)	0.00E+00	0.00E+00

SEQUENCE T116  
RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK			UPPER 5%
			INCREASE	(RANK)	LOWER 5%	
SLR-026-R	377	3.50E-04 ( 90.0)	8.23E-07 ( 1.0)	0.00E+00	3.59E-06	
1EB236B-BCC-LF	58	7.20E-05 (143.5)	4.89E-07 ( 2.0)	0.00E+00	9.08E-06	
1EB235A-BCC-LF	52	7.20E-05 (143.5)	4.10E-07 ( 3.0)	3.00E+00	6.00E-06	
Q1	495	8.20E-03 ( 25.0)	4.35E-08 ( 4.0)	0.00E+00	4.40E-07	
OPF411-VENT-2H	222	2.10E-03 ( 62.0)	1.08E-08 ( 5.0)	0.00E+00	1.37E-07	
1EB361B-BCC-LF	58	7.20E-05 (143.5)	8.19E-09 ( 6.0)	0.00E+00	1.14E-07	
CSC0300B-PLG-LF	36	1.20E-03 ( 66.5)	7.26E-09 ( 7.0)	3.00E+00	1.39E-07	
CSC0300A-PLG-LF	38	1.20E-03 ( 66.5)	7.12E-09 ( 8.0)	0.00E+00	1.37E-07	
C29001F-PLG-LF	15	5.80E-04 ( 77.5)	5.63E-09 ( 9.0)	0.00E+00	9.67E-08	
C09001F-PLG-LF	18	5.80E-04 ( 77.5)	5.63E-09 ( 10.0)	0.00E+00	9.67E-08	
RHR01AA-BCC-LF	16	5.00E-04 ( 85.0)	5.56E-09 ( 11.0)	0.00E+00	9.63E-08	
RHR01BB-BCC-LF	12	5.00E-04 ( 85.0)	5.56E-09 ( 12.0)	0.00E+00	9.62E-08	
C09001P-PMS-LF	17	1.10E-03 ( 69.5)	5.56E-09 ( 13.5)	0.00E+00	9.63E-08	
RHR02AA-PMS-LF	17	1.10E-03 ( 69.5)	5.56E-09 ( 15.5)	0.00E+00	9.62E-08	
C20001P-PMS-LF	13	1.10E-03 ( 69.5)	5.56E-09 ( 15.5)	0.00E+00	9.62E-08	
RHR02BB-PMS-LF	13	1.10E-03 ( 69.5)	5.54E-09 ( 17.5)	0.00E+00	9.57E-08	
RHR49AA-VCC-LF	14	5.00E-04 ( 85.0)	5.54E-09 ( 17.5)	0.00E+00	9.57E-08	
CSCF068A-VCC-LF	14	5.00E-04 ( 85.0)	5.54E-09 ( 19.5)	0.00E+00	9.56E-08	
CSCF068B-VCC-LF	11	5.00E-04 ( 85.0)	5.54E-09 ( 19.5)	0.00E+00	9.56E-08	
RHRF488B-VCC-LF	11	5.00E-04 ( 85.0)	5.53E-09 ( 21.5)	0.00E+00	9.56E-08	
RHR02AA-P-UJM	15	3.00E-03 ( 34.5)	5.53E-09 ( 21.5)	0.00E+00	9.56E-08	
LC5002A-P-UJM	15	3.00E-03 ( 34.5)	5.53E-09 ( 23.0)	0.00E+00	9.56E-08	
RHR02BB-P-UJM	12	3.00E-03 ( 34.5)	5.51E-09 ( 24.0)	0.00E+00	9.51E-08	
RHR01AA-RTX-LFB	17	6.20E-03 ( 26.5)	5.51E-09 ( 25.0)	0.00E+00	9.51E-08	
RHR01BB-RTX-LFB	14	6.20E-03 ( 26.5)	5.11E-09 ( 26.0)	0.00E+00	3.73E-08	
LPCI-PMS-CM	7	2.50E-03 ( 53.0)	4.05E-09 ( 27.0)	0.00E+00	1.30E-08	
SJR-025-R	153	1.80E-02 ( 24.0)	3.80E-09 ( 28.0)	0.00E+00	5.45E-08	
RHR301A-STR	5	1.10E-04 (126.5)	3.88E-09 ( 29.0)	0.00E+00	5.45E-08	
RHR301B-STR	4	1.10E-04 (126.5)	3.88E-09 ( 30.0)	0.00E+00	4.53E-08	
1EB235YA-BCC-LF	4	7.20E-05 (143.5)	3.68E-09 ( 31.0)	0.00E+00	4.50E-08	
EE-CSC0300A-PLG	2	7.20E-04 ( 75.0)	3.63E-09 ( 31.0)	0.00E+00	4.47E-08	
1EB235XA-BCC-LF	4	7.20E-05 (143.5)	3.59E-09 ( 32.0)	0.00E+00	4.47E-08	
1EB36XB-BCC-LF	1	7.20E-05 (143.5)	3.59E-09 ( 35.0)	0.00E+00	4.47E-08	
1EB36YX-BCC-LF	1	7.20E-05 (143.5)	3.59E-09 ( 35.0)	0.00E+00	4.47E-08	
1EB35Y2X-BCC-LF	1	7.20E-05 (143.5)	3.59E-09 ( 35.0)	0.00E+00	4.47E-08	
SEVB001X-BCC-LF	1	7.20E-05 (143.5)	3.59E-09 ( 35.0)	0.00E+00	4.47E-08	
WVB001X-BCC-LF	1	7.20E-05 (143.5)	3.59E-09 ( 35.0)	0.00E+00	4.47E-08	
1EB16211-BCC	1	8.40E-05 (136.5)	3.59E-09 ( 39.5)	1.00E+00	4.47E-08	
CCB0061P-BCC-LF	1	8.40E-05 (136.5)	3.59E-09 ( 39.5)	1.00E+00	4.47E-08	
1EB16212-BCC	1	8.40E-05 (136.5)	3.59E-09 ( 39.5)	6.00E+00	4.47E-08	
CCB2061P-BCC-LF	1	8.40E-05 (136.5)	3.59E-09 ( 39.5)	6.00E+00	4.47E-08	
RHRF55AA-N-UJM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08	
RHRF57BB-V-UJM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08	
RHRF51BB-N-UJM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08	
RHRF51AA-N-UJM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08	

RHRF4788-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF4888-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF47AA-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF6498-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF6088-S-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF6588-N-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF5588-R-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
SEVY03AX-A-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF48AA-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF7488-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF8888-R-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
CDDG01F-S-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF55AX-R-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF60AA-S-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF64AA-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
PC02AAAX-A00-LFO	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF74AA-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
CSCF0688-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
NWY01AX-A-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
CSCF008A-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
SCSF0688-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
ZD601PK18CA-LFO	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
CSCD3008-S-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
CSCD300A-S-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
C2D601F-S-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRH018X-H-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRH01AX-H-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF88AX-R-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
RHRF87AA-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
SCSF06AA-V-UUM	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
ZD601PSC-000-LFO	1	3.00E-04 (108.0)	3.59E-09 ( 59.0)	0.00E+00	4.47E-08
NWY01CA-F-UUM	1	5.00E-04 ( 85.0)	3.59E-09 ( 78.0)	0.00E+00	4.47E-08
ZD61PK18-R00-LFO	1	5.00E-04 ( 85.0)	3.59E-09 ( 78.0)	0.00E+00	4.47E-08
SEVY03CB-F-UUM	1	5.00E-04 ( 85.0)	3.59E-09 ( 80.5)	0.00E+00	4.47E-08
NWY01CA-FMS-LF	1	5.40E-04 ( 79.5)	3.59E-09 ( 80.5)	0.00E+00	4.47E-08
SEVY03CB-FMS-LF	1	8.40E-04 ( 72.5)	3.59E-09 ( 82.5)	0.00E+00	4.46E-08
NWY01AX-ACK-LFI	1	8.40E-04 ( 72.5)	3.59E-09 ( 86.5)	0.00E+00	4.46E-08
SEVY03AX-ACK-LFI	1	2.50E-03 ( 53.0)	3.59E-09 ( 86.5)	0.00E+00	4.46E-08
C2D601P-PMS-CC	1	2.50E-03 ( 53.0)	3.59E-09 ( 86.5)	0.00E+00	4.46E-08
RHRB0188-B00-CC	1	2.50E-03 ( 53.0)	3.59E-09 ( 86.5)	0.00E+00	4.46E-08
RHRB01AA-B00-CC	1	2.50E-03 ( 53.0)	3.59E-09 ( 86.5)	0.00E+00	4.46E-08
CDDG01P-PMS-CC	1	2.50E-03 ( 53.0)	3.59E-09 ( 86.5)	0.00E+00	4.46E-08
NWY01CA-FMS-CC	1	2.50E-03 ( 53.0)	3.59E-09 ( 91.5)	0.00E+00	4.41E-08
SEVY03CB-FMS-CC	1	2.50E-03 ( 53.0)	3.59E-09 ( 91.5)	0.00E+00	4.41E-08
C2D601P-P-UUM	1	3.00E-03 ( 34.5)	3.59E-09 ( 91.5)	0.00E+00	4.41E-08
RHRB0288-P-NDUUM	1	3.00E-03 ( 34.5)	3.59E-09 ( 91.5)	0.00E+00	4.41E-08
RHRB02AA-P-NDUUM	1	3.00E-03 ( 34.5)	3.59E-09 ( 91.5)	0.00E+00	4.41E-08
CDDG01P-P-UUM	1	3.00E-03 ( 34.5)	3.59E-09 ( 94.0)	0.00E+00	4.41E-08
Q2	5	9.40E-05 (134.0)	1.87E-09 ( 94.0)	0.00E+00	1.62E-08
LPCI-MOV-CHK2	7	2.50E-03 ( 53.0)	1.39E-09 ( 95.5)	0.00E+00	1.71E-08
LPCI-MOV-CHK1	7	2.50E-03 ( 53.0)	1.39E-09 ( 95.5)	0.00E+00	1.71E-08
RA-1-1-27H	153	2.10E-03 ( 62.0)	1.01E-09 ( 97.0)	0.00E+00	5.90E-09

RA-2-11-27H	56	1.60E-03 ( 65.0)	5.14E-10 ( 90.0)	0.00E+00	3.09E-09
1E42YB-V-UJM	4	1.00E-04 (130.5)	5.10E-10 ( 99.5)	0.00E+00	1.32E-09
1E82369-B-UJM	4	1.00E-04 (130.5)	5.10E-10 ( 99.5)	0.00E+00	1.32E-09
1E8235A-B-UJM	3	1.00E-04 (130.5)	3.74E-10 (101.5)	0.00E+00	9.32E-10
1E41YA-V-UJM	3	1.00E-04 (130.5)	3.74E-10 (101.5)	0.00E+00	9.32E-10
LPC1-MOV-BETA	14	3.00E-02 ( 14.0)	2.26E-10 (103.0)	0.00E+00	1.08E-09
LPC1-BETA	7	1.10E-01 ( 13.0)	1.04E-10 (104.0)	0.00E+00	5.17E-10
RA-5V-1-2H	67	2.10E-03 ( 62.0)	3.79E-11 (105.0)	0.00E+00	3.71E-10
LAK182RB-R00-LFO	32	2.00E-02 ( 19.0)	2.26E-11 (106.5)	0.00E+00	2.76E-10
LAK088CB-R00-LFO	32	2.00E-02 ( 19.0)	2.24E-11 (106.5)	0.00E+00	2.76E-10
LAK18ARA-R00-LFO	32	2.00E-02 ( 19.0)	2.07E-11 (109.0)	0.00E+00	2.71E-10
LAK108CA-R00-LFO	32	2.00E-02 ( 19.0)	2.07E-11 (109.0)	0.00E+00	2.71E-10
LAK048CA-R00-LFO	32	2.00E-02 ( 19.0)	2.07E-11 (109.0)	0.00E+00	2.71E-10
EE-C5003008-PL5	2	7.20E-04 ( 75.0)	1.90E-11 (111.5)	0.00E+00	1.45E-10
EE-C20001F-PL5	2	7.20E-04 ( 75.0)	1.90E-11 (111.5)	0.00E+00	1.45E-10
LAK036RC-R00-LFO	30	2.00E-02 ( 19.0)	1.87E-11 (113.0)	0.00E+00	1.30E-10
LAK03ARC-R00-LFO	30	2.00E-02 ( 19.0)	1.68E-11 (114.0)	0.00E+00	1.10E-10
TDRFP-T-0E-27H	58	2.60E-03 ( 46.0)	1.54E-11 (115.0)	0.00E+00	1.11E-10
LAK388CB-R00-LFO	6	3.40E-03 ( 28.5)	1.53E-11 (116.0)	0.00E+00	1.66E-10
RHR00038-P-UJM	6	3.00E-03 ( 34.5)	1.49E-11 (117.0)	0.00E+00	1.36E-10
LAK3ARCA-R00-LFO	5	3.40E-03 ( 28.5)	1.34E-11 (118.0)	0.00E+00	1.33E-10
LAK148RC-R00-LFO	11	2.00E-02 ( 19.0)	1.33E-11 (119.0)	0.00E+00	1.08E-10
LAK14ARC-R00-LFO	10	2.00E-02 ( 19.0)	1.14E-11 (120.0)	0.00E+00	8.34E-11
RA-7-1-27H	2	2.10E-03 ( 62.0)	1.08E-11 (121.0)	0.00E+00	4.63E-11
LAK9ACP3-LFO0	1	2.90E-03 ( 42.0)	7.51E-12 (124.0)	0.00E+00	6.75E-11
LAK18RCP1-LFO0	1	2.90E-03 ( 42.0)	7.51E-12 (124.0)	0.00E+00	6.75E-11
LAK18ACP1-LFO0	1	2.90E-03 ( 42.0)	7.51E-12 (124.0)	0.00E+00	6.75E-11
LAK10ACP9-LFO0	1	2.90E-03 ( 42.0)	7.51E-12 (124.0)	0.00E+00	6.75E-11
LAK98CP3-LFO0	1	2.90E-03 ( 42.0)	7.51E-12 (124.0)	0.00E+00	6.75E-11
RHRF488B-V00-CC	1	2.50E-03 ( 53.0)	5.73E-12 (128.5)	0.00E+00	2.76E-11
RHRF48AA-V00-CC	1	2.50E-03 ( 53.0)	5.73E-12 (128.5)	0.00E+00	2.76E-11
CSCF066B-VCC-CC	1	2.50E-03 ( 53.0)	5.73E-12 (128.5)	0.00E+00	2.76E-11
CSCF066A-VCC-CC	1	2.50E-03 ( 53.0)	5.73E-12 (128.5)	0.00E+00	2.76E-11
LAK938C-...-CC	1	2.90E-03 ( 42.0)	5.72E-12 (131.5)	0.00E+00	2.76E-11
LAK93ACP3-LFCC	1	2.90E-03 ( 42.0)	5.72E-12 (131.5)	0.00E+00	2.76E-11
1EDC25EP-FRP-27H	2	3.20E-03 ( 30.0)	5.15E-12 (133.0)	0.00E+00	3.39E-11
MFS-RESET-DE-27H	4	2.10E-03 ( 62.0)	2.89E-12 (134.0)	0.00E+00	1.64E-11
1EB3F '9-B-UJM	4	1.00E-04 (130.5)	1.07E-12 (135.5)	0.00E+00	3.27E-12
1E3/1B-V-UJM	4	1.00E-04 (130.5)	1.07E-12 (135.5)	0.00E+00	3.27E-12
FLOW-RHR-B3	44	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
/A-NONE	269	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
FLOW-RHR-A3	47	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
NOFLOW-SPC-B5X	11	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
NOFLOW-SPC-A5X	10	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
NOFLOW-RHR-B1	4	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
NOFLOW-RHR-A1	5	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
NOFLOW-CSS-B7A	11	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
NOFLOW-CSS-A7A	10	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
SCSF066B-DENER	15	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
SCSF066A-DENER	18	1.00E+00 ( 6.0)	0.00E+00 (142.0)	0.00E+00	0.00E+00
CONT-LEAK	530	7.50E-01 ( 12.0)	-3.62E-10 (148.0)	-4.73E-09	0.00E+00

SEQUENCE TL16  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB	(RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	Y.05/TE.05*	Y.95/TE.95*
COMT-LEAK	530	7.50E-01	( 12.0)	52.1	( 1.0)	NA	0.25
SUR-025-R	153	1.80E-02	( 24.0)	4.7	( 2.0)	NA	0.82
RHR01AX-A-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
CSCD300B-S-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
COG01F-S-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
RHR01BX-H-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
CZDG01F-S-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
CSCD300A-S-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
NWY01AX-A-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
SEVY03AX-A-UUM	1	3.00E-04	(108.0)	4.2	( 6.5)	NA	1.01
RHR301AX-STR	5	1.10E-04	(126.5)	4.1	(11.5)	NA	1.00
RHR301BX-STR	4	1.10E-04	(126.5)	4.1	(11.5)	NA	1.00
CSCD300A-PLG-LF	38	1.20E-03	( 66.5)	3.5	(13.5)	NA	1.02
CSCD300B-PLG-LF	36	1.20E-03	( 66.5)	3.5	(13.5)	NA	1.02
Q2	5	9.40E-05	(134.0)	3.2	(15.0)	NA	1.00
RA-2-11-27A	56	1.60E-03	( 65.0)	3.1	(16.0)	NA	1.00
01	695	8.20E-03	( 25.0)	3.0	(17.0)	NA	0.78
LPCI-MOV-CM2	7	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
RHR01AA-800-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
ESCF068A-VCC-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
LPCI-PMS-CM	7	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
COG01P-PMS-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
RHR01E-800-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
CZDG01P-PMS-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
SEVY03CR-FMS-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
NWY01CA-FMS-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
LPCI-MOV-CM1	7	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
RHR48AA-V00-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
RHR48BB-V00-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
ESCF068B-VCC-CC	1	2.50E-03	( 53.0)	3.0	( 24.0)	NA	0.99
LPC* NWV-BETA	14	3.00E-02	( 14.0)	3.0	( 24.0)	NA	0.99
TDR DE-27H	58	2.60E-03	( 46.0)	2.9	(31.0)	NA	0.97
CZDG01P-P-UUM	1	3.00E-03	( 34.5)	2.5	(32.0)	NA	1.00
COG01P-P-UUM	1	3.00E-03	( 34.5)	2.2	(34.5)	NA	0.94
RHR02BB-P-MOUM	1	3.00E-03	( 34.5)	2.2	(34.5)	NA	0.94
RHR02AA-P-MOUM	1	3.00E-03	( 34.5)	2.2	(34.5)	NA	0.94
ZDG1PK1B-R00-LFO	1	5.00E-04	( 85.0)	2.2	(34.5)	NA	0.94
1EDC2DEP-FRP-27H	2	3.20E-03	( 30.0)	2.2	(37.0)	NA	1.01
LAK3ARCA-R00-LFO	5	3.40E-03	( 28.5)	2.1	(38.0)	NA	1.00
LAK3BRCB-R00-LFO	6	3.40E-03	( 28.5)	2.0	(39.5)	NA	1.00
COG01F-PLG-LF	18	5.80E-04	( 77.5)	2.0	(39.5)	NA	1.00
CZDG01F-PLG-LF	15	5.80E-04	( 77.5)	1.7	(41.5)	NA	1.01
RHR01AX-HTX-LFB	17	6.20E-03	( 26.5)	1.6	(43.5)	NA	1.06
RHR01BX-HTX-LFB	14	6.20E-03	( 26.5)	1.6	(43.5)	NA	1.00
LAK93ARC-R00-LFO	30	2.00E-02	( 19.0)	1.5	(49.0)	NA	1.01

LAK14BRC-RCO-LFO	11	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
LAK14ARC-RCO-LFO	10	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
LAK10RCA-ROO-LFO	32	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
LAK18B8B-ROO-LFO	32	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
LAK18ARA-ROO-LFO	32	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
LAK93BRC-ROO-LFO	30	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
LAK9ARCA-ROO-LFO	32	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
LAK9BRCB-ROO-LFO	32	2.00E-02	( 19.0)	1.5	( 49.0)	NA	1.01
1EB16212-BCD	1	8.40E-05	(136.5)	1.4	( 55.5)	NA	1.00
CCB2DG1P-BCD-LF	1	8.40E-05	(136.5)	1.4	( 55.5)	NA	1.00
CCB0DG1P-BCD-LF	1	8.40E-05	(136.5)	1.4	( 55.5)	NA	1.00
1EB16211-BCD	1	8.40E-05	(136.5)	1.4	( 55.5)	NA	1.00
1EB235A-BCO-LF	52	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB36Y1X-BCD-LF	1	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB35Y2X-BCO-LF	1	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB236B-BCO-LF	58	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
NWVR001X-BCD-LF	1	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB235YA-BCO-LF	4	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
SEVB001X-BCO-LF	1	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB235XA-BCO-LF	4	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB36YB-BCO-LF	58	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB36XB-BCO-LF	1	7.20E-05	(143.5)	1.3	( 62.5)	NA	1.05
1EB235A-B-UUM	3	1.00E-04	(130.5)	1.3	( 70.5)	NA	1.00
1E42YB-V-UUM	4	1.00E-04	(130.5)	1.3	( 70.5)	NA	1.00
1EB36YB-B-UUM	4	1.00E-04	(130.5)	1.3	( 70.5)	NA	1.00
1EB236B-B-UUM	4	1.00E-04	(130.5)	1.3	( 70.5)	NA	1.00
1E36YB-V-UUM	4	1.00E-04	(130.5)	1.3	( 70.5)	NA	1.00
1E41YA-V-UUM	3	1.00E-04	(130.5)	1.3	( 70.5)	NA	1.00
NWVY01CA-FMS-LF	1	5.40E-04	( 79.5)	1.2	( 74.5)	NA	0.99
SEVY03CB-FMS-LF	1	5.40E-04	( 79.5)	1.2	( 74.5)	NA	0.99
RHRC02AA-P-UUM	15	3.00E-03	( 34.5)	0.9	( 77.5)	NA	1.11
RHRC003B-P-UUM	6	3.00E-03	( 34.5)	0.9	( 77.5)	NA	1.11
RHRC02BB-P-UUM	12	3.00E-03	( 34.5)	0.9	( 77.5)	NA	1.11
LCSC002A-P-UUM	15	3.00E-03	( 34.5)	0.9	( 77.5)	NA	1.11
NWVY01CA-F-UUM	1	5.00E-04	( 85.0)	0.8	( 80.5)	NA	1.00
SEVY03CB-F-UUM	1	5.00E-04	( 85.0)	0.8	( 80.5)	NA	1.00
SUR-026-R	377	3.50E-04	( 90.0)	0.3	( 82.0)	NA	0.52
LAK9ACP3-LFOO	1	2.90E-03	( 42.0)	0.0	(110.0)		
RHRF65BB-N-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		
RHRF65AA-N-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		
LAK93BCP3-LFCC	1	2.90E-03	( 42.0)	0.0	(110.0)		
RHRF60BB-S-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		
RHRF60AA-S-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		
C2DG01P-PMS-LF	13	1.10E-03	( 69.5)	0.0	(110.0)		
LAK93ACP3-LFCC	1	2.90E-03	( 42.0)	0.0	(110.0)		
RHRF51BB-N-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		
RHRF51AA-N-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		
RHRF48BB-V00-LF	11	5.00E-04	( 85.0)	0.0	(110.0)		
RHRF48BB-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		
RHRF48AA-V00-LF	14	5.00E-04	( 85.0)	0.0	(110.0)		
LAK18BCP1-LFOO	1	2.90E-03	( 42.0)	0.0	(110.0)		
RHRF47BB-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)		

RHR747AA-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
RHRC028B-PMS-LF	13	1.10E-03	( 69.5)	0.0	(110.0)
LAK18ACP1-LF00	1	2.90E-03	( 42.0)	0.0	(110.0)
RHRC024A-PMS-LF	17	1.10E-03	( 69.5)	0.0	(110.0)
RHRB016B-B00-LF	12	5.00E-04	( 85.0)	0.0	(110.0)
C00G01P-PMS-LF	17	1.10E-03	( 69.5)	0.0	(110.0)
RHRB01AA-B00-LF	16	5.00E-04	( 85.0)	0.0	(110.0)
LAK10ACP9-LF00	1	2.90E-03	( 42.0)	0.0	(110.0)
RA-SV-1-27H	2	2.10E-03	( 62.0)	0.0	(110.0)
EE-CSCD300B-PLG	67	2.10E-03	( 62.0)	0.0	(110.0)
RHRF48AA-V-UUM	2	7.20E-04	( 75.0)	0.0	(110.0)
RA-1-1-27H	1	3.00E-04	(108.0)	0.0	(110.0)
EE-CSCD300A-PLG	153	2.10E-03	( 62.0)	0.0	(110.0)
EE-C2D001F-PLG	2	7.20E-04	( 75.0)	0.0	(110.0)
EE-C2D001F-PLG	2	7.20E-04	( 75.0)	0.0	(110.0)
PC02AAX-A00-LFO	1	3.00E-04	(108.0)	0.0	(110.0)
DPFAT1-VENT-2H	222	2.10E-03	( 62.0)	0.0	(110.0)
CSCF068B-VCC-LF	11	5.00E-04	( 85.0)	0.0	(110.0)
NWY01AX-ACK-LF1	1	8.40E-04	( 72.5)	0.0	(110.0)
RHRF55AX-R-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
RHRF55BX-R-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
CSCF068B-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
CSCF068A-VCC-LF	14	5.00E-04	( 85.0)	0.0	(110.0)
RHRF64AA-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
RHRF64BB-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
ZD001PSC-000-LFO	1	3.00E-04	(108.0)	0.0	(110.0)
CSCF008A-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
RHRF74AA-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
RHRF74BB-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
ZD001PK18CA-LF00	1	3.00E-04	(108.0)	0.0	(110.0)
MFS-RESET-OE-27H	4	2.10E-03	( 62.0)	0.0	(110.0)
SEVY03AX-ACK-LF1	1	8.40E-04	( 72.5)	0.0	(110.0)
SCSF068B-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
SCSF06AA-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
LPCI-BETA	7	1.10E-01	( 13.0)	0.0	(110.0)
RHRF808X-R-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
RHRF808X-R-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
LAK9BCP3-LF00	1	2.90E-03	( 42.0)	0.0	(110.0)
RHRF878B-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
RHRF87AA-V-UUM	1	3.00E-04	(108.0)	0.0	(110.0)
FLOW-RHR-B3	44	1.00E+00	( 6.0)	0.0	(110.0)
RA-NONE	269	1.00E+00	( 6.0)	0.0	(110.0)
FLOW-RHR-A3	47	1.00E+00	( 6.0)	0.0	(110.0)
NOFLOW-SPC-85X	11	1.00E+00	( 6.0)	0.0	(110.0)
NOFLOW-SPC-ASX	10	1.00E+00	( 6.0)	0.0	(110.0)
NOFLOW-RHR-B1	4	1.00E+00	( 6.0)	0.0	(110.0)
NOFLOW-RHR-A1	5	1.00E+00	( 6.0)	0.0	(110.0)
NOFLOW-CSS-B7A	11	1.00E+00	( 6.0)	0.0	(110.0)
NOFLOW-CSS-A7A	10	1.00E+00	( 6.0)	0.0	(110.0)
SCSF068B-DENER	15	1.00E+00	( 6.0)	0.0	(110.0)
SCSF06AA-DENER	18	1.00E+00	( 6.0)	0.0	(110.0)

SEQUENCE TL16

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT CPO5B2-TL-SEQ2B WITH TOP EVENT FREQUENCY 3.62E-10

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	2	6	2.22E-11	0.06140	/CONT-LEAK	1E-T101	* Q1	* RA-NONE
3					RHR01B-X-HTX-LFB	SUR-026-R	*	* RA-NONE
4	1	6	2.22E-11	0.12279	/CONT-LEAK	1E-T102	* Q1	* RA-NONE
5					RHR01A-X-HTX-LFB	SUR-026-R	*	* LPCI-BETA
6	105	8	1.28E-11	0.15809	/CONT-LEAK	1E-T5	* RA-NONE	* SUR-025-R
7					OPFAIL-VENT-2H	Q1	* LCSC002A-P-UUM	* Q1
8	4	6	1.08E-11	0.18780	/CONT-LEAK	1E-T102	* Q1	* Q1
9					RA-NONE	SUR-026-R	*	* RA-NONE
10	9	6	1.08E-11	0.21750	CZD001P-P-UUM	/CONT-LEAK	* Q1	* RA-NONE
11					RA-NONE	SUR-026-R	*	* RA-NONE
12	6	6	1.08E-11	0.24721	/CONT-LEAK	1E-T101	* Q1	* RA-NONE
13					RHR02B-B-P-UUM	SUR-026-R	*	* RA-NONE
14	5	6	1.08E-11	0.27692	/CONT-LEAK	1E-T102	* Q1	* RA-NONE
15					RHR02A-A-P-UUM	SUR-026-R	*	* Q1
16	3	6	1.08E-11	0.30663	COD001P-P-UUM	/CONT-LEAK	* Q1	* RA-NONE
17					RA-NONE	SUR-026-R	*	* RA-NONE
18	7	7	1.08E-11	0.33634	/CONT-LEAK	1E-T101	* Q1	* RA-NONE
19					RHR02B-B-P-UUM	SCSF06B-DENER	* SUR-026-R	* RA-NONE
20	8	7	1.08E-11	0.36605	/CONT-LEAK	1E-T102	* Q1	* RA-NONE
21					RHR02A-A-P-UUM	SCSF06A-DENER	* SUR-026-R	* Q1
22	108	7	9.88E-12	0.39333	1EB235A-BCO-LF	/CONT-LEAK	* SUR-025-R	* Q1
23					RA-NONE	RHR01B-X-HTX-LFB	* SUR-025-R	* Q1
24	109	7	9.88E-12	0.42061	1EB236B-BCO-LF	/CONT-LEAK	* SUR-025-R	* RA-NONE
25					RA-NONE	RHR01A-X-HTX-LFB	* Q1	* RA-NONE
26	15	6	8.97E-12	0.44537	/CONT-LEAK	1E-T101	* Q1	* Q1
27					RHR01B-B-800-CC	SUR-026-R	* NMVY01CA-FMS-CC	* Q1
28	13	6	8.97E-12	0.47012	/CONT-LEAK	1E-T102	* Q1	* Q1
29					RA-NONE	SUR-026-R	* Q1	* RA-NONE
30	11	6	8.97E-12	0.49488	CZD001P-PMS-CL	/CONT-LEAK	* Q1	* RA-NONE
31					RA-NONE	SUR-026-R	* Q1	* RA-NONE
32	10	6	8.97E-12	0.51964	/CONT-LEAK	1E-T102	* Q1	* Q1
33					RHR01A-A-800-CC	SUR-026-R	* Q1	* RA-NONE
34	14	6	8.97E-12	0.54439	/CONT-LEAK	1E-T101	* Q1	* RA-NONE
35					SEVY03CB-FMS-CC	SUR-026-R	* Q1	* RA-NONE
36	12	6	8.97E-12	0.56915	COD001P-PMS-CC	/CONT-LEAK	* Q1	* Q1
37					RA-NONE	SUR-026-R	* Q1	* Q1
38	135	7	4.78E-12	0.58235	1EB236B-BCO-LF	/CONT-LEAK	* Q1	* LCSC002A-P-UUM
39					Q1	RA-NONE	* Q1	* Q1
40	136	8	4.78E-12	0.59555	1EB235A-BCO-LF	/CONT-LEAK	* Q1	* SUR-025-R
41					RA-NONE	RHR02B-B-P-UUM	* Q1	* Q1
42	134	8	4.78E-12	0.60875	1EB236B-BCO-LF	/CONT-LEAK	* Q1	* SUR-025-R
43					RA-NONE	RHR02A-A-P-UUM	* Q1	* SUR-025-R
44	16	6	4.30E-12	0.62064	/CONT-LEAK	CSCD300B-PLG-LF	* Q1	* Q1
45					RA-NONE	SUR-026-R	* Q1	* Q1



46	17	6	4.30E-12	0.63252	/CONT-LEAK	* C5CD300A-PLG-LF	* IE-T102	* Q1	*
47					RA-NONE	* SUR-026-R			*
48	19	6	3.95E-12	0.64341	C2D601P-PMS-LF	/CONT-LEAK	* IE-T101	* Q1	*
49					RA-NONE	* SUR-026-R			*
50	21	6	3.95E-12	0.65431	C0D601P-PMS-LF	/CONT-LEAK	* IE-T102	* Q1	*
51					RA-NONE	* SUR-026-R			*
52	18	6	3.95E-12	0.66520	/CONT-LEAK	* IE-T101	* Q1	* RA-NONE	*
53					RHR0288-PMS-LF	* SUR-026-R			*
54	20	6	3.95E-12	0.67609	/CONT-LEAK	* IE-T102	* Q1	* RA-NONE	*
55					RHR02AA-PMS-LF	* SUR-026-R			*
56	120	8	3.49E-12	0.68572	/CONT-LEAK	* IE-T5			*
57					OPFAIL-V NT-2H	* Q1			*
58	119	8	3.49E-12	0.69534	/CONT-LEAK	* IE-T5			*
59					OPFAIL-VENT-2H	* Q1			*
60	23	6	3.01E-12	0.70366	/CONT-LEAK	* IE-T102			*
61					RA-NONE	* SUR-026-R			*
62	22	6	3.01E-12	0.71198	/CONT-LEAK	* IE-T101			*
63					SEVY03AK-ACK-LF1	* SUR-026-R			*
64	24	6	2.38E-12	0.71911	/CONT-LEAK	* EE-C5CD300A-PLG	* IE-T102	* Q1	*
65					RA-NONE	* SUR-026-R			*
66	25	6	2.08E-12	0.72485	C2D601F-PLG-LF	/CONT-LEAK	* IE-T101	* Q1	*
67					RA-NONE	* SUR-026-R			*
68	26	6	2.08E-12	0.73060	C0D601F-PLG-LF	/CONT-LEAK	* IE-T102	* Q1	*
69					RA-NONE	* SUR-026-R			*
70	28	6	1.94E-12	0.73594	/CONT-LEAK	* IE-T101			*
71					SEVY03CB-FMS-LF	* SUR-026-R			*
72	27	6	1.94E-12	0.74129	/CONT-LEAK	* IE-T102			*
73					RA-NONE	* SUR-026-R			*
74	146	7	1.21E-12	0.74657	1ER2348-8CO-LF	/CONT-LEAK			*
75					Q1	* RA-NONE			*
76	147	7	1.91E-12	0.75185	1EB235A-8CO-LF	/CONT-LEAK			*
77					Q1	* RA-NONE			*
78	29	6	1.79E-12	0.75680	/CONT-LEAK	* CSCF068B-VCC-LF			*
79					RA-NONE	* SUR-026-R			*
80	30	6	1.79E-12	0.76174	ZD61PK18-800-LF0	/CONT-LEAK			*
81					RA-NONE	* SUR-026-R			*
82	34	6	1.79E-12	0.76671	/CONT-LEAK	* IE-T102			*
83					RA-NONE	* SUR-026-R			*
84	31	6	1.79E-12	0.77166	/CONT-LEAK	* SUR-026-R			*
85					RA-NONE	* CSCF068A-VCC-LF			*
86	36	6	1.79E-12	0.77661	/CONT-LEAK	* SUR-026-R	* IE-T102	* Q1	*
87					RHR07AA-800-LF	* IE-T101			*
88	32	6	1.79E-12	0.78156	/CONT-LEAK	* SUR-026-R			*
89					RHR07BB-800-LF	* IE-T101			*
90	37	7	1.79E-12	0.78651	/CONT-LEAK	* SUR-026-R			*
91					RA-NONE	* FLOW-RHR-83	* IE-T101	* Q1	*
92	33	7	1.79E-12	0.79146	/CONT-LEAK	* RHRF488B-V00-LF	* SUR-026-R	* Q1	*
93					RA-NONE	* FLOW-RHR-A3	* IE-T102	* Q1	*
94	35	6	1.79E-12	0.79642	/CONT-LEAK	* RHRF48AA-V00-LF	* SUR-026-R	* Q1	*
95					SEVY03CB-F-LUM	* SUR-026-R			*
96	159	7	1.75E-12	0.80126	1EB235A-8CO-LF	C2D601P-PMS-LF	/CONT-LEAK	* IE-T5	*
97					Q1	* RA-NONE	* SUR-025-R		*

98	158	7	1.75E-12	0.80610	1E82368-BCO-LF	/CONT-LEAK	RA-NONE	RHR026A-PMS-LF	1E-T5	Q1	*
99					RA-NONE	/CONT-LEAK	RHR026A-PMS-LF	SUR-025-R	1E-T5	Q1	*
100	157	7	1.75E-12	0.81094	1E8235A-BCO-LF	/CONT-LEAK	RA-NONE	RHR026B-PMS-LF	SUR-025-R	1E-T5	*
101					RA-NONE	/CONT-LEAK	RHR026B-PMS-LF	SUR-025-R	1E-T5	Q1	*
102	160	7	1.75E-12	0.81578	1E82368-BCO-LF	Q1	RA-NONE	CDD001P-PMS-LF	/CONT-LEAK	Q1	*
103					Q1	RA-NONE	CDD001P-PMS-LF	SUR-025-R	1E-T5	Q1	*
104	38	7	1.44E-12	0.81975	1E8235A-BCO-LF	/CONT-LEAK	RA-NONE	RHR018X-HTX-LFB	1E-T1	Q1	*
105					RA-NONE	/CONT-LEAK	RHR018X-HTX-LFB	SUR-026-R	1E-T1	Q1	*
106	39	7	1.44E-12	0.82373	1E82368-BCO-LF	/CONT-LEAK	RA-NONE	RHR018X-HTX-LFB	1E-T1	Q1	*
107					RA-NONE	/CONT-LEAK	RHR018X-HTX-LFB	SUR-026-R	1E-T1	Q1	*
108	41	6	1.08E-12	0.82670	/CONT-LEAK	RA-NONE	1E-T102	NWY01AX-A-UUM	1E-T102	Q1	*
109					RA-NONE	1E-T102	NWY01AX-A-UUM	1E-T102	1E-T102	Q1	*
110	60	6	1.08E-12	0.82968	/CONT-LEAK	RA-NONE	CSC0300A-S-UUM	1E-T102	1E-T102	Q1	*
111					RA-NONE	/CONT-LEAK	CSC0300A-S-UUM	1E-T102	1E-T102	Q1	*
112	68	6	1.08E-12	0.83265	/CONT-LEAK	RA-NONE	1E-T101	1E-T101	1E-T101	Q1	*
113					RA-NONE	/CONT-LEAK	1E-T101	1E-T101	1E-T101	Q1	*
114	67	6	1.08E-12	0.83562	RHRF588-N-UUM	RA-NONE	SUR-026-R	1E-T102	1E-T102	Q1	*
115					RA-NONE	RA-NONE	SUR-026-R	1E-T102	1E-T102	Q1	*
116	69	6	1.08E-12	0.83859	/CONT-LEAK	RA-NONE	1E-T101	1E-T101	1E-T101	Q1	*
117					RA-NONE	/CONT-LEAK	1E-T101	1E-T101	1E-T101	Q1	*
118	57	6	1.08E-12	0.84156	/CONT-LEAK	RA-NONE	SUR-026-R	1E-T102	1E-T102	Q1	*
119					RA-NONE	/CONT-LEAK	SUR-026-R	1E-T102	1E-T102	Q1	*
120	49	6	1.08E-12	0.84453	/CONT-LEAK	RA-NONE	1E-T101	1E-T101	1E-T101	Q1	*
121					RA-NONE	/CONT-LEAK	1E-T101	1E-T101	1E-T101	Q1	*
122	70	6	1.08E-12	0.84750	SCSF068B-V-UUM	RA-NONE	SUR-026-R	1E-T102	1E-T102	Q1	*
123					RA-NONE	/CONT-LEAK	SUR-026-R	1E-T102	1E-T102	Q1	*
124	72	7	1.08E-12	0.85047	RHRF608A-S-UUM	RA-NONE	1E-T102	1E-T102	1E-T102	Q1	*
125					RA-NONE	/CONT-LEAK	1E-T102	1E-T102	1E-T102	Q1	*
126	52	7	1.08E-12	0.85344	RHRF47AA-V-UUM	RA-NONE	SCSF068A-DENER	SUR-026-R	1E-T102	Q1	*
127					RA-NONE	/CONT-LEAK	SCSF068A-DENER	SUR-026-R	1E-T102	Q1	*
128	61	6	1.08E-12	0.85641	RHRF80AX-R-UUM	RA-NONE	1E-T102	1E-T102	1E-T102	Q1	*
129					RA-NONE	/CONT-LEAK	1E-T102	1E-T102	1E-T102	Q1	*
130	54	6	1.08E-12	0.85938	/CONT-LEAK	RA-NONE	SUR-026-R	1E-T102	1E-T102	Q1	*
131					RA-NONE	/CONT-LEAK	SUR-026-R	1E-T102	1E-T102	Q1	*
132	47	6	1.08E-12	0.86235	/CONT-LEAK	RA-NONE	1E-T102	1E-T102	1E-T102	Q1	*
133					RA-NONE	/CONT-LEAK	1E-T102	1E-T102	1E-T102	Q1	*
134	43	6	1.08E-12	0.86532	RHRF55AX-R-UUM	RA-NONE	SUR-026-R	1E-T101	1E-T101	Q1	*
135					RA-NONE	/CONT-LEAK	SUR-026-R	1E-T101	1E-T101	Q1	*
136	58	6	1.08E-12	0.86830	2DG01PK18CA-LFOO	RA-NONE	1E-T102	1E-T102	1E-T102	Q1	*
137					RA-NONE	/CONT-LEAK	1E-T102	1E-T102	1E-T102	Q1	*
138	73	6	1.08E-12	0.87127	RHR01AX-H-UUM	RA-NONE	SUR-026-R	1E-T101	1E-T101	Q1	*
139					RA-NONE	/CONT-LEAK	SUR-026-R	1E-T101	1E-T101	Q1	*
140	59	6	1.08E-12	0.87424	/CONT-LEAK	RA-NONE	1E-T101	1E-T101	1E-T101	Q1	*
141					RA-NONE	/CONT-LEAK	1E-T101	1E-T101	1E-T101	Q1	*
142	50	6	1.08E-12	0.87721	RHRF878B-V-UUM	RA-NONE	SUR-026-R	1E-T101	1E-T101	Q1	*
143					RA-NONE	/CONT-LEAK	SUR-026-R	1E-T101	1E-T101	Q1	*
144	42	6	1.08E-12	0.88018	RHRF48B-V-UUM	RA-NONE	1E-T101	1E-T101	1E-T101	Q1	*
145					RA-NONE	/CONT-LEAK	1E-T101	1E-T101	1E-T101	Q1	*
146	63	6	1.08E-12	0.88315	/CONT-LEAK	RA-NONE	1E-T101	1E-T101	1E-T101	Q1	*
147					RA-NONE	/CONT-LEAK	1E-T101	1E-T101	1E-T101	Q1	*
148	71	6	1.08E-12	0.88612	RHRF558X-R-UUM	RA-NONE	SUR-026-R	1E-T102	1E-T102	Q1	*
149					RA-NONE	/CONT-LEAK	SUR-026-R	1E-T102	1E-T102	Q1	*
150					SCSF068A-V-UUM	RA-NONE	SUR-026-R	1E-T102	1E-T102	Q1	*

150	55	6	1.08E-12	0.88909	/CONT-LEAK	* IE-T101	* Q1	* RA-NONE	*
151					RHRF51BB-N-UUM	* SUR-026-R	+		
152	51	7	1.08E-12	0.89206	/CONT-LEAK	* IE-T102	* Q1	* RA-NONE	*
153					RHRF64AA-V-UUM	* SCSF06AA-DENER	* SUR-026-R	+	
154	44	7	1.08E-12	0.89503	/CONT-LEAK	* IE-T101	* Q1	* RA-NONE	*
155					RHRF88BX-R-UUM	* SCSF06BB-DENER	* SUR-026-R	+	
156	65	6	1.08E-12	0.89800	/CONT-LEAK	* IE-T102	* Q1	* RA-NONE	*
157					RHRF87AA-V-UUM	* SUR-026-R	+		
158	46	7	1.08E-12	0.90097	/CONT-LEAK	* FLOW-RHR-A3	* IE-T102	* Q1	*
159					RA-NONE	* RHRF48AA-V-UUM	* SUR-026-R	+	
160	62	7	1.08E-12	0.90395	/CONT-LEAK	* IE-T101	* Q1	* RA-NONE	*
161					RHRF64BB-V-UUM	* SCSF06BB-DENER	* SUR-026-R	+	
162	40	6	1.08E-12	0.90692	C2DG01F-S-UUM	* /CONT-LEAK	* IE-T101	* Q1	*
163					RA-NONE	* SUR-026-R	+		
164	64	6	1.08E-12	0.90989	/CONT-LEAK	* IE-T101	* Q1	* RA-NONE	*
165					RHRH01BX-H-UUM	* SUR-026-R	+		
166	45	6	1.08E-12	0.91286	/CONT-LEAK	* IE-T102	* Q1	* RA-NONE	*
167					RHRF74AA-V-UUM	* SUR-026-R	+		
168	66	6	1.08E-12	0.91583	C0DG01F-S-UUM	* /CONT-LEAK	* IE-T102	* Q1	*
169					RA-NONE	* SUR-026-R	+		
170	53	6	1.08E-12	0.91880	/CONT-LEAK	* IE-T101	* Q1	* RA-NONE	*
171					RHRF60BB-S-UUM	* SUR-026-R	+		
172	74	7	1.08E-12	0.92177	/CONT-LEAK	* IE-T101	* Q1	* RA-NONE	*
173					RHRF47BB-V-UUM	* SCSF06BB-DENER	* SUR-026-R	+	
174	48	6	1.08E-12	0.92474	/CONT-LEAK	* IE-T102	* Q1	* RA-NONE	*
175					RHRF51AA-N-UUM	* SUR-026-R	+		
176	56	7	1.08E-12	0.92771	/CONT-LEAK	* FLOW-RHR-B3	* IE-T101	* Q1	*
177					RA-NONE	* RHRF48BB-V-UUM	* SUR-026-R	+	
178	75	6	1.06E-12	0.93063	1EB236B-BCO-LF	* /CONT-LEAK	* CSCD300A-PLG-LF	* IE-T5	*
179					RA-NONE	* SUR-026-R	+		
180	76	6	1.06E-12	0.93356	1EB235A-BCO-LF	* /CONT-LEAK	* CSCD300B-PLG-LF	* IE-T5	*
181					RA-NONE	* SUR-026-R	+		
182	191	7	9.25E-13	0.93611	1EB235A-BCO-LF	* C2DG01F-PLG-LF	* /CONT-LEAK	* IE-T5	*
183					Q1	* RA-NONE	* SUR-025-R	+	
184	192	7	9.25E-13	0.93866	1EB236B-BCO-LF	* C0DG01F-PLG-LF	* /CONT-LEAK	* IE-T5	*
185					Q1	* RA-NONE	* SUR-025-R	+	
186	206	7	7.97E-13	0.94086	1EB235A-BCO-LF	* /CONT-LEAK	* IE-T5	* Q1	*
187					RA-NONE	* RHRB01BB-BOO-LF	* SUR-025-R	+	
188	210	8	7.97E-13	0.94306	1EB236B-BCO-LF	* /CONT-LEAK	* FLOW-RHR-A3	* IE-T5	*
189					Q1	* RA-NONE	* RHRF48AA-V00-LF	* SUR-025-R	+
190	209	7	7.97E-13	0.94526	1EB236B-BCO-LF	* /CONT-LEAK	* SCSF06BA-VCC-LF	* IE-T5	*
191					Q1	* RA-NONE	* SUR-025-R	+	
192	208	7	7.97E-13	0.94746	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T5	* Q1	*
193					RA-NONE	* RHRB01AC-BOO-LF	* SUR-025-R	+	
194	207	8	7.97E-13	0.94966	1EB235A-BCO-LF	* /CONT-LEAK	* FLOW-RHR-B3	* IE-T5	*
195					Q1	* RA-NONE	* RHRF48BB-V00-LF	* SUR-025-R	+
196	205	7	7.97E-13	0.95186	1EB235A-BCO-LF	* /CONT-LEAK	* SCSF06BB-VCC-LF	* IE-T5	*
197					Q1	* RA-NONE	* SUR-025-R	+	
198	77	8	6.97E-13	0.95379	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T5	* Q1	*
199					RA-NONE	* RHRF02AA-P-UUM	* SCSF06AA-DENER	* SUR-026-R	+
200	79	7	6.97E-13	0.95571	1EB236B-BCO-LF	* /CONT-LEAK	* IE-T5	* LCSC002A-P-UUM	*
201					Q1	* RA-NONE	* SUR-026-R	+	



254	104	7	2.56E-13	0.97798	1EB235A-BCO-LF	* C2DG01P-PMS-LF	* /CONT-LEAK	* 1E-T1	*
255					Q1	* RA-NONE	* SUR-026-R	+	*
256	103	7	2.56E-13	0.97867	1EB236B-BCO-LF	* C0DG01P-PMS-LF	* /CONT-LEAK	* 1E-T1	*
257					Q1	* RA-NONE	* SUR-026-R	+	*
258	107	7	1.95E-13	0.97922	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-T3	* Q1	*
259					RA-NONE	* RRRH01BX-HTX-LFB	* SUR-026-R	+	*
260	106	7	1.95E-13	0.97976	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T3	* Q1	*
261					RA-NONE	* RRRH01AX-HTX-LFB	* SUR-026-R	+	*
262	275	8	1.67E-13	0.98022	/CONT-LEAK	* CSCD300B-PLG-LF	* 1E-T5	* LCSC002A-P-UUM	*
263					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-025-R	+
264	274	9	1.67E-13	0.98069	/CONT-LEAK	* CSCD300A-PLG-LF	* 1E-T5	* OPFAIL-VENT-2H	+
265					Q1	* RA-NONE	* RHRC028B-P-UUM	* SCSP068B-DEX-R	+
266					SUR-025-R	+			
267	273	9	1.67E-13	0.98115	/CONT-LEAK	* CSCD300B-PLG-LF	* 1E-T5	* ...-VENT-2H	+
268					Q1	* RA-NONE	* RHRC02AA-P-UUM	* 3F08AA-DENER	+
269					SUR-025-R	+			
270	110	7	1.67E-13	0.98161	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T2	* Q1	*
271					RA-NONE	* RRRH01AX-HTX-LFB	* SUR-026-R	+	*
272	111	7	1.67E-13	0.98207	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-T2	* Q1	*
273					RA-NONE	* RRRH01BX-HTX-LFB	* SUR-026-R	+	*
274	114	6	1.51E-13	0.98248	/CONT-LEAK	* 1E-T102	* LAK9ARCA-ROO-LFO	* Q1	*
275					RA-1-1-27H	* SUR-026-R	+		
276	113	6	1.51E-13	0.98290	CONT-LEAK	* 1E-T101	* LAK9BRCB-ROO-LFO	* Q1	*
277					RA-1-1-27H	* SUR-026-R	+		
278	112	6	1.51E-13	0.98332	/CONT-LEAK	* 1E-T102	* LAK10RCA-ROO-LFO	* Q1	*
279					RA-1-1-27H	* SUR-026-R	+		
280	116	6	1.51E-13	0.98373	/CONT-LEAK	* 1E-T102	* LAK1BARA-ROO-LFO	* Q1	*
281					RA-1-1-27H	* SUR-026-R	+		
282	115	6	1.51E-13	0.98415	/CONT-LEAK	* 1E-T101	* LAK18BRB-ROO-LFO	* Q1	*
283					RA-1-1-27H	* SUR-026-R	+		
284	117	7	1.35E-13	0.98452	1EB236B-BCO-LF	* C0DG01F-PLG-LF	* /CONT-LEAK	* 1E-T1	*
285					Q1	* RA-NONE	* SUR-026-R	+	*
286	118	7	1.35E-13	0.98489	1EB235A-BCO-LF	* C2DG01F-PLG-LF	* /CONT-LEAK	* 1E-T1	*
287					Q1	* RA-NONE	* SUR-026-R	+	*
288	125	7	1.16E-13	0.98521	1EB236B-BCO-LF	* /CONT-LEAK	* CSCF068A-VCC-LF	* 1E-T1	*
289					Q1	* RA-NONE	* SUR-026-R	+	*
290	121	8	1.16E-13	0.98553	1EB236B-BCO-LF	* /CONT-LEAK	* FLOW-RHR-B3	* 1E-T1	*
291					Q1	* RA-NONE	* RHRF48AA-V00-LF	* SUR-026-R	+
292	126	7	1.16E-13	0.98585	1EB235A-BCO-LF	* /CONT-LEAK	* CSCF068E-VCC-LF	* 1E-T1	*
293					Q1	* RA-NONE	* SUR-026-R	+	*
294	124	8	1.16E-13	0.98618	1EB235A-BCO-LF	* /CONT-LEAK	* FLOW-RHR-B3	* 1E-T1	*
295					Q1	* RA-NONE	* RHRF48BB-V00-LF	* SUR-026-R	+
296	122	7	1.16E-13	0.98650	1EB235A-BCO-LF	* /CONT-LEAK	* 1E-T1	* Q1	*
297					RA-NONE	* RHRB01BB-BOO-LF	* SUR-026-R	+	*
298	123	7	1.16E-13	0.98682	1EB236B-BCO-LF	* /CONT-LEAK	* 1E-T1	* Q1	*
299					RA-NONE	* RHRB01AA-BOO-LF	* SUR-026-R	+	*
300	127	8	1.15E-13	0.98713	/CONT-LEAK	* 1E-T102	* LAK14ARC-ROO-LFO	* NOFLOW-CSS-A7A	+
301					NOFLOW-SPC-ASX	* Q1	* RA-2-11-27H	* SUR-026-R	+
302	130	7	1.15E-13	0.98745	/CONT-LEAK	* FLOW-RHR-A3	* 1E-T102	* LAK93ARC-ROO-LFO	+
303					Q1	* RA-2-11-27H	* SUR-026-R	+	*
304	129	7	1.15E-13	0.98777	/CONT-LEAK	* FLOW-RHR-B3	* 1E-T101	* LAK93BRC-ROO-LFO	+
305					Q1	* RA-2-11-27H	* SUR-026-R	+	*

306	125	8	1.15E-13	0.96808	/CONT-LEAK	* 1E-1101	* LAK14BRC-RCD-LFO	* NOFLOW-CSS-B7A
307					NOFLOW-SPC-B5X	* Q1	* RA-2-11-27H	* SUR-026-R
308	133	8	9.45E-14	0.98835	1E8235A-BCD-LF	* /CONT-LEAK	* 1E-13	* Q1
309					RA-NONE	* RHR028B-P-UUM	* SCSF06BB-DENER	* SUR-026-R
310	131	7	9.45E-14	0.98861	1E8236B-BCD-LF	* /CONT-LEAK	* 1E-13	* LCSC002A-P-UUM
311					Q1	* RA-NONE	* SUR-026-R	
312	132	8	9.45E-14	0.98887	1E8236B-BCD-LF	* /CONT-LEAK	* 1E-13	* Q1
313					RA-NONE	* RHR02AA-P-UUM	* SCSF06AA-DENER	* SUR-026-R
314	139	8	8.06E-14	0.98909	1E8235A-BCD-LF	* /CONT-LEAK	* 1E-12	* Q1
315					RA-NONE	* RHR028B-P-UUM	* SCSF06BB-DENER	* SUR-026-R
316	136	8	8.06E-14	0.98931	1E8236B-BCD-LF	* /CONT-LEAK	* 1E-12	* Q1
317					RA-NONE	* RHR02AA-P-UUM	* SCSF06AA-DENER	* SUR-026-R
318	137	7	8.06E-14	0.98953	1E8236B-BCD-LF	* /CONT-LEAK	* 1E-12	* LCSC002A-P-UUM
319					Q1	* RA-NONE	* SUR-026-R	
320	264	8	6.79E-14	0.98972	/CONT-LEAK	* CSCD300A-PLG-LF	* CSCD300B-PLG-LF	* 1E-15
321					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-025-R
322	286	8	6.14E-14	0.98989	/CONT-LEAK	* CSCD300B-PLG-LF	* 1E-15	* OPFAIL-VENT-2H
323					Q1	* RA-NONE	* RHR02AA-PMS-LF	* SUR-025-R
324	288	8	6.14E-14	0.99006	/CONT-LEAK	* CSCD300A-PLG-LF	* 1E-15	* OPFAIL-VENT-2H
325					Q1	* RA-NONE	* RHR028B-PMS-LF	* SUR-025-R
326	287	8	6.14E-14	0.99023	C2D01P-PMS-LF	* /CONT-LEAK	* CSCD300A-PLG-LF	* 1E-15
327					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-025-R
328	285	8	6.14E-14	0.99040	CDD01P-PMS-LF	* /CONT-LEAK	* CSCD300B-PLG-LF	* 1E-15
329					OPFAIL-VENT-2H	* Q1	* RA-NONE	* SUR-025-R
330	196	6	4.93E-14	0.99053	/CONT-LEAK	* CSCD300A-PLG-LF	* 1E-1102	* Q2
331					RA-NONE	* SUR-026-R		
332	195	6	4.93E-14	0.99067	/CONT-LEAK	* CSCD300B-PLG-LF	* 1E-1101	* Q2
333					RA-NONE	* SUR-026-R		
334	143	7	4.67E-14	0.9910	/CONT-LEAK	* 1E-198	* OPFAIL-VENT-2H	* Q1
335					RA-NONE	* RHR07AY-RTX-LFB	* SUR-026-R	
336	142	7	4.67E-14	0.99093	/CONT-LEAK	* 1E-19A	* OPFAIL-VENT-2H	* Q1
337					RA-NONE	* RHR07BX-RTX-LFB	* SUR-026-R	
338	299	8	3.91E-14	0.99104	/CONT-LEAK	* 1E-15	* LAK10RCA-ROO-LFO	* LAK9BRCB-ROO-LFO
339					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-025-R
340	302	10	3.91E-14	0.99114	/CONT-LEAK	* 1E-15	* LAK14KRC-ROO-LFO	* LAK18BRB-ROO-LFO
341					NOFLOW-CSS-A7A	* NOFLOW-SPC-A5X	* OPFAIL-VENT-2H	* Q1
342					RA-1-1-27H	* SUR-025-R		
343	295	9	3.91E-14	0.99125	/CONT-LEAK	* FLOW-RHR-B3	* 1E-15	* LAK18APA-ROO-LFO
344					LAK93BRC-ROO-LFO	* OPFAIL-VENT-2H	* Q1	* RA-1-1-27H
345					SUR-025-R			
346	306	10	3.91E-14	0.99136	/CONT-LEAK	* 1E-15	* LAK14BRC-RCD-LFO	* LAK18ARA-ROO-LFO
347					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* OPFAIL-VENT-2H	* Q1
348					RA-1-1-27H	* SUR-025-R		
349	300	8	3.91E-14	0.99147	/CONT-LEAK	* 1E-15	* LAK2ARCA-ROO-LFO	* LAK9BRCB-ROO-LFO
350					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-025-R
351	298	8	3.91E-14	0.99157	/CONT-LEAK	* 1E-15	* LAK18ARA-ROO-LFO	* LAK18BRB-ROO-LFO
352					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-025-R
353	297	8	3.91E-14	0.99168	/CONT-LEAK	* 1E-15	* LAK18BRS-ROO-LFO	* LAK2APCA-ROO-LFO
354					OPFAIL-VENT-2H	* Q1	* RA-1-1-27H	* SUR-025-R

SEQUENCE TL18

TOP EVENT POSA1-TL-SEQ2A CONTAINS 110 EVENTS IN 148 CUT SETS

THE FREQUENCY OF TOP EVENT POSA1-TL-SEQ2A IS 1.07E-09

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT POSA1-TL-SEQ2A

N	300
MEAN	5.07E-09
STD DEV	5.44E-08
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	2.92E-09

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

Y  
STRUCTURE:

$P_{ij}$  = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD - RISK REDUCTION$   
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE TL18  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	T ROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
CONT-LEAK	148	7.50E-01 ( 8.0)	1.07E-09 ( 1.5)	0.00E+00	2.92E-09
Q1	148	8.20E-03 ( 22.0)	1.07E-09 ( 1.5)	0.00E+00	2.92E-09
SUR-002-L	20	1.60E-01 ( 11.0)	1.06E-09 ( 3.5)	0.00E+00	2.76E-09
RA-8-27H	20	3.29E-03 ( 27.5)	1.06E-09 ( 3.5)	0.00E+00	2.76E-09
DGO-GEN-LF-FTS	6	2.50E-02 ( 12.5)	4.72E-10 ( 5.0)	0.00E+00	9.12E-10
AP040X2-ROO-LFO	6	2.00E-02 ( 16.5)	3.76E-10 ( 6.5)	0.00E+00	7.34E-10
AP059X2-ROO-LFO	6	2.00E-02 ( 16.5)	3.76E-10 ( 6.5)	0.00E+00	7.34E-10
DGO-GEN-LF-FTR	4	1.90E-02 ( 20.5)	3.31E-10 ( 6.0)	0.00E+00	7.91E-10
RA-9-27H	8	4.00E-01 ( 9.0)	3.08E-10 ( 9.0)	0.00E+00	7.78E-10
DG2A-GEN-LF-FTS	4	2.50E-02 ( 12.5)	1.70E-10 ( 10.0)	0.00E+00	4.80E-10
DG2A-GEN-LF-FTR	2	1.50E-02 ( 20.5)	1.01E-10 ( 11.0)	0.00E+00	1.49E-10
RHR01AX-HTX-LFB	11	6.20E-03 ( 23.5)	9.40E-11 ( 12.0)	0.00E+00	1.17E-10
DGO-G-UJM	3	6.00E-03 ( 25.5)	9.07E-11 ( 13.0)	0.00E+00	1.74E-10
SCSF06AA-DENER	3	1.00E+00 ( 4.0)	3.64E-11 ( 15.0)	0.00E+00	3.01E-11
RHR0202A-P-UJM	3	3.00E-03 ( 32.5)	3.64E-11 ( 15.0)	0.00E+00	3.01E-11
LCS002A-P-UJM	3	3.00E-03 ( 32.5)	3.64E-11 ( 15.0)	0.00E+00	3.01E-11
RHR01BX-HTX-LFB	13	6.20E-03 ( 23.5)	1.97E-11 ( 17.0)	0.00E+00	2.89E-11
DG2A-G-UJM	1	6.00E-03 ( 25.5)	1.81E-11 ( 18.0)	0.00E+00	3.96E-11
SUR-005-L	128	4.70E-04 ( 72.0)	9.67E-12 ( 19.0)	0.00E+00	3.55E-11
RA-NONE	66	1.00E+00 ( 4.0)	8.60E-12 ( 20.0)	0.00E+00	3.42E-12
CR01-REALIGN-OE	17	2.10E-03 ( 45.5)	1.54E-12 ( 21.0)	0.00E+00	3.42E-12
EE-MDF-PSW-BC-R	53	3.30E-01 ( 10.0)	1.07E-12 ( 22.0)	0.00E+00	1.86E-12
1EB211YA-8CO-LF	1	7.20E-05 ( 100.0)	1.04E-12 ( 24.5)	0.00E+00	1.86E-12
1EB222X-8CO	1	7.20E-05 ( 100.0)	1.04E-12 ( 24.5)	0.00E+00	1.86E-12
1EB1Y22X-8CO	1	7.20E-05 ( 100.0)	1.04E-12 ( 24.5)	0.00E+00	1.86E-12
1EB212YA-8CO-LF	1	7.20E-05 ( 100.0)	1.04E-12 ( 24.5)	0.00E+00	1.86E-12
2C11C0018-P-UJM	7	3.00E-03 ( 32.5)	9.84E-13 ( 27.0)	0.00E+00	1.69E-12
2C11C0018-800-CC	7	2.50E-03 ( 40.0)	8.20E-13 ( 28.0)	0.00E+00	1.63E-12
RA-1-1-27H	59	2.10E-03 ( 45.5)	7.70E-13 ( 29.0)	0.00E+00	2.46E-12
SCSF06BB-DENER	10	1.00E+00 ( 4.0)	4.90E-13 ( 30.0)	0.00E+00	8.33E-13
C20601P-P-UJM	7	3.00E-03 ( 32.5)	4.81E-13 ( 32.0)	0.00E+00	6.25E-13
RHR0258B-P-UJM	7	3.00E-03 ( 32.5)	4.81E-13 ( 32.0)	0.00E+00	6.25E-13
RHR0299B-P-UJM	7	3.00E-03 ( 32.5)	4.81E-13 ( 32.0)	0.00E+00	6.25E-13
2C11C0018-PMS-LF	11	1.10E-03 ( 53.0)	4.28E-13 ( 34.0)	0.00E+00	8.99E-13
SEVY03CB-FMS-CC	7	2.50E-03 ( 40.0)	4.01E-13 ( 36.0)	0.00E+00	1.17E-12
RHR018B-800-CC	7	2.50E-03 ( 40.0)	4.01E-13 ( 36.0)	0.00E+00	1.17E-12
C20601P-PMS-CC	7	2.50E-03 ( 40.0)	4.01E-13 ( 36.0)	0.00E+00	1.17E-12
2C11F0018-RCO-LF	7	1.20E-01 ( 50.0)	3.94E-13 ( 36.0)	0.00E+00	6.16E-13
RA-2-11-27H	2	1.60E-03 ( 48.0)	3.05E-13 ( 39.0)	0.00E+00	2.99E-13
LAK58EB-ROO-LFO	1	2.00E-02 ( 16.5)	2.00E-13 ( 40.5)	0.00E+00	3.64E-13
LAK188B-ROO-LFO	1	2.00E-02 ( 16.5)	2.00E-13 ( 40.5)	0.00E+00	3.64E-13
2C11C0018-800-LF	11	5.00E-04 ( 68.5)	1.95E-13 ( 42.0)	0.00E+00	3.64E-13
FLOW-RHR-83	3	1.00E+00 ( 4.0)	1.61E-13 ( 43.0)	0.00E+00	3.64E-13
NOFLOW-SPC-BSX	1	1.00E+00 ( 4.0)	1.53E-13 ( 45.5)	0.00E+00	1.49E-13
LAK038C-ROO-LFO	1	2.00E-02 ( 16.5)	1.53E-13 ( 45.5)	0.00E+00	1.49E-13



LAK14RRC-RCD-LFO	1	2.00E-02 ( 16.5)	1.53E-13 ( 45.5)	0.00E+00	1.49E-13
NOFLOW-CSS-B7A	1	1.00E+00 ( 4.0)	1.53E-13 ( 45.5)		
CODG01P-P-UUM	1	3.00E-03 ( 32.5)	9.11E-14 ( 48.5)	0.00E+00	1.01E-13
RHRC02AA-P-NDUUM	1	3.00E-03 ( 32.5)	9.11E-14 ( 48.5)	0.00E+00	1.01E-13
CSCD300B-PLG-LF	4	1.20E-03 ( 50.0)	7.62E-14 ( 50.0)	0.00E+00	1.94E-13
NWVY01CA-FMS-CC	1	2.50E-03 ( 40.0)	7.59E-14 ( 52.0)	0.00E+00	9.20E-14
CODG01P-PMS-CC	1	2.50E-03 ( 40.0)	7.59E-14 ( 52.0)	0.00E+00	9.20E-14
RHRB01AA-B00-CC	1	2.50E-03 ( 40.0)	7.59E-14 ( 52.0)	0.00E+00	9.20E-14
2C11C001A-PMS-LF	1	7.20E-04 ( 59.5)	6.45E-14 ( 54.0)	0.00E+00	9.14E-14
RHRC02BB-PM3-LF	3	1.10E-03 ( 53.0)	3.65E-14 ( 55.5)	0.00E+00	6.53E-14
C2DG01P-PMS-LF	3	1.10E-03 ( 53.0)	3.65E-14 ( 55.5)	0.00E+00	6.53E-14
CSCD300A-PLG-LF	1	1.20E-03 ( 50.0)	3.64E-14 ( 57.0)	0.00E+00	5.98E-14
SEVY03AX-ACX-LFI	3	8.40E-04 ( 55.0)	2.78E-14 ( 58.0)	0.00E+00	2.88E-14
2C11C001A-BCD-LF	1	7.20E-05 (100.0)	6.45E-15 ( 59.0)	0.00E+00	4.28E-15
C2DG01F-PLG-LF	1	5.80E-04 ( 64.0)	5.81E-15 ( 60.0)	0.00E+00	9.92E-15
SEVY03CB-FMS-LF	1	5.40E-04 ( 65.0)	5.41E-15 ( 61.0)	0.00E+00	9.15E-15
SEVY03CB-F-UUM	1	5.00E-04 ( 68.5)	5.01E-15 ( 64.0)	0.00E+00	9.34E-15
CSCF068B-VCC-LF	1	5.00E-04 ( 68.5)	5.01E-15 ( 64.0)	0.00E+00	5.16E-15
RHRB01BB-B00-LF	1	5.00E-04 ( 68.5)	5.01E-15 ( 64.0)	0.00E+00	9.10E-15
2DG1PK18-R00-LFO	1	5.00E-04 ( 68.5)	5.01E-15 ( 64.0)	0.00E+00	1.02E-14
RHRF48BB-V00-LF	1	5.00E-04 ( 68.5)	5.01E-15 ( 64.0)	0.00E+00	5.16E-15
SEVY03AX-A-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	9.91E-15
SCSF068B-V-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
RHRF55BB-R-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
RHRH01BX-P-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	9.91E-15
RHRF88BB-R-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
RHRF74BB-V-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
RHRF65BB-N-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
RHRF64BB-V-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
CSCF068B-V-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
RHRF51BB-N-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
CSCD300B-S-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	9.91E-15
RHRF48BB-V-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
RHRF47BB-V-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
2DG01PSC-000-LFO	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	4.97E-15
RHRF87BB-V-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
2DG01PK18CA-LFOO	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	4.97E-15
C2DG01F-S-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	9.91E-15
RHRF60BB-S-UUM	1	3.00E-04 ( 81.5)	3.00E-15 ( 75.5)	0.00E+00	3.11E-15
1EB236B-BCD-LF	2	7.20E-05 (100.0)	1.44E-15 ( 85.5)	0.00E+00	1.35E-15
1EB36YB-BCD-LF	2	7.20E-05 (100.0)	1.44E-15 ( 85.5)	0.00E+00	1.35E-15
NOFLOW-RHR-B1	1	1.00E+00 ( 4.0)	1.10E-15 ( 87.5)		
RHR301BX-STR	1	1.10E-04 ( 91.0)	1.10E-15 ( 87.5)	0.00E+00	1.21E-15
1EB16212-BCO	1	8.40E-05 ( 92.5)	8.41E-16 ( 89.5)	0.00E+00	8.23E-16
CCB2DG1P-BCO-LF	1	8.40E-05 ( 92.5)	8.41E-16 ( 89.5)	0.00E+00	8.23E-16
SEVB001X-BCD-LF	1	7.20E-05 (100.0)	7.21E-16 ( 92.0)	0.00E+00	6.77E-16
1EB36Y1X-BCD-LF	1	7.20E-05 (100.0)	7.21E-16 ( 92.0)	0.00E+00	6.77E-16
1EB36XB-BCD-LF	1	7.20E-05 (100.0)	7.21E-16 ( 92.0)	0.00E+00	6.77E-16
PSW01FBX-STX-LF	2	7.20E-04 ( 59.5)	2.71E-16 ( 94.0)	0.00E+00	2.73E-16
2WR02MB-STR-LF	1	7.20E-04 ( 59.5)	1.35E-16 ( 96.5)	0.00E+00	1.36E-16
2WR02MA-STR-LF	1	7.20E-04 ( 59.5)	1.35E-16 ( 96.5)	0.00E+00	1.36E-16
2WR01PB-PMS-FR	1	7.20E-04 ( 59.5)	1.35E-16 ( 96.5)	0.00E+00	5.67E-17

ZWR01PA-PMS-FR	1	7.20E-04 ( 59.5)	1.35E-16 ( 96.5)	0.00E+00	5.67E-17
DFAIL-VENT-2H	1	2.10E-03 ( 45.5)	1.30E-16 ( 99.0)	0.00E+00	1.09E-16
1EPC20EP-FRP-27H	2	3.20E-03 ( 27.5)	4.62E-17 (100.0)	0.00E+00	2.62E-17
EE-CSCD300B-PLG	1	7.20E-04 ( 59.5)	2.31E-17 (101.5)	0.00E+00	1.31E-17
EE-200G1F-PLG	1	7.20E-04 ( 59.5)	2.31E-17 (101.5)	0.00E+00	1.31E-17
RA-2-1-27H	1	2.10E-03 ( 45.5)	1.35E-17 (104.5)	0.00E+00	5.41E-18
ZWR01PB-BCC-LF	1	7.20E-05 (100.0)	1.35E-17 (104.5)	0.00E+00	5.41E-18
ZWR01FA-BCC-LF	1	7.20E-05 (100.0)	1.35E-17 (104.5)	0.00E+00	5.41E-18
1E9233A-BCC-LF	1	7.20E-05 (100.0)	1.35E-17 (104.5)	0.00E+00	5.41E-18

SEQUENCE T118  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE (RANK)	LOWER 5%	UPPER 5%
RA-8-27H	20	3.20E-03 ( 27.5)	3.30E-07 ( 1.0)	0.00E+00	1.82E-06
Q1	148	8.20E-03 ( 22.0)	1.29E-07 ( 2.0)	0.00E+00	5.35E-07
SUR-006-L	128	4.70E-04 ( 72.0)	2.06E-08 ( 3.0)	0.00E+00	9.68E-08
AP039X2-ROO-LFO	6	2.00E-02 ( 16.5)	1.84E-08 ( 4.5)	0.00E+00	6.65E-08
AP040X2-ROO-LFO	6	2.00E-02 ( 16.5)	1.84E-08 ( 4.5)	0.00E+00	6.65E-08
DGO-GEN-LF-FTS	6	2.50E-02 ( 12.5)	1.84E-08 ( 6.0)	0.00E+00	3.81E-08
DGO-GEN-LF-FTR	4	1.90E-02 ( 20.5)	1.71E-08 ( 7.0)	0.00E+00	3.21E-08
RHR01AX-HTX-LFB	11	6.20E-03 ( 23.5)	1.51E-08 ( 8.0)	0.00E+00	2.88E-08
DGO-G-UUM	3	6.00E-03 ( 25.5)	1.50E-08 ( 9.0)	0.00E+00	2.75E-08
1EB212YX-BCO-LF	1	7.20E-05 (100.0)	1.45E-08 ( 11.5)	0.00E+00	5.66E-08
1EB211YX-BCO-LF	1	7.20E-05 (100.0)	1.45E-08 ( 11.5)	0.00E+00	5.66E-08
1EB2Y22X-BCO	1	7.20E-05 (100.0)	1.45E-08 ( 11.5)	0.00E+00	5.66E-08
1EB1Y22X-BCO	1	7.20E-05 (100.0)	1.45E-08 ( 11.5)	0.00E+00	5.66E-08
LCSC002A-P-UUM	3	3.00E-03 ( 32.5)	1.21E-08 ( 14.5)	0.00E+00	2.23E-08
RHRC02AA-P-UUM	3	3.00E-03 ( 32.5)	1.21E-08 ( 14.5)	0.00E+00	2.23E-08
DG2A-GEN-LF-FTS	4	2.50E-02 ( 12.5)	6.63E-09 ( 16.0)	0.00E+00	1.61E-08
SUR-C02-L	20	1.60E-01 ( 11.0)	5.56E-09 ( 17.0)	0.00E+00	2.07E-08
DG2A-GEN-LF-FTR	2	1.90E-02 ( 20.5)	5.22E-09 ( 18.0)	0.00E+00	1.15E-08
RHR018X-HTX-LFB	13	6.20E-03 ( 23.5)	3.16E-09 ( 19.0)	0.00E+00	8.97E-09
DG2A-G-UUM	1	6.00E-03 ( 25.5)	3.00E-09 ( 20.0)	0.00E+00	8.55E-09
CR01-REALIGN-OE	17	2.10E-03 ( 45.5)	7.33E-10 ( 21.0)	0.00E+00	1.80E-09
RA-9-27H	8	4.00E-01 ( 9.0)	4.62E-10 ( 22.0)	0.00E+00	1.90E-09
2C11C001B-BOO-LF	11	5.00E-04 ( 68.5)	3.89E-10 ( 23.0)	0.00E+00	1.43E-09
2C11C001B-PMS-LF	11	1.10E-03 ( 53.0)	3.89E-10 ( 24.0)	0.00E+00	1.42E-09
RA-1-1-27H	59	2.10E-03 ( 45.5)	3.66E-10 ( 25.0)	0.00E+00	1.33E-09
CONT-LEAK	148	7.50E-01 ( 8.0)	3.57E-10 ( 26.0)	0.00E+00	0.00E+00
2C11F001B-ROO-LF	7	1.20E-03 ( 50.0)	3.28E-10 ( 27.0)	0.00E+00	8.33E-10
2C11C0019-BOC-CC	7	2.50E-03 ( 40.0)	3.27E-10 ( 28.0)	0.00E+00	8.35E-10
2C11C001B-P-UUM	7	3.00E-03 ( 32.5)	3.27E-10 ( 29.0)	0.00E+00	8.30E-10
RA-2-11-27H	2	1.60E-03 ( 48.0)	1.90E-10 ( 30.0)	0.00E+00	4.55E-10
SEVY03CB-FMS-CC	7	2.50E-03 ( 40.0)	1.60E-10 ( 32.0)	0.00E+00	6.40E-10
RHR018B-BOO-CC	7	2.50E-03 ( 40.0)	1.60E-10 ( 32.0)	0.00E+00	6.40E-10
C2DGO1P-PMS-CC	7	2.50E-03 ( 40.0)	1.60E-10 ( 32.0)	0.00E+00	6.40E-10
RHRC028B-P-UUM	7	3.00E-03 ( 32.5)	1.60E-10 ( 35.0)	0.00E+00	6.39E-10
RHRC028B-P-NDUUM	7	3.00E-03 ( 32.5)	1.60E-10 ( 35.0)	0.00E+00	6.39E-10
C2DGO1P-P-UUM	7	3.00E-03 ( 32.5)	1.60E-10 ( 35.0)	0.00E+00	6.39E-10
2C11C001A-BCO-LF	1	7.20E-05 (100.0)	8.96E-11 ( 37.0)	0.00E+00	1.61E-10
2C11C001A-PMS-LF	1	7.20E-04 ( 59.5)	8.95E-11 ( 38.0)	0.00E+00	1.61E-10
CSCD300B-PLG-LF	4	1.20E-02 ( 50.0)	6.34E-11 ( 39.0)	0.00E+00	2.80E-10
SEVY03AX-ACX-LFI	3	8.40E-04 ( 55.0)	3.31E-11 ( 40.0)	0.00E+00	1.14E-10
RHRC028B-PMS-LF	3	1.10E-03 ( 53.0)	3.31E-11 ( 41.5)	0.00E+00	1.14E-10
C2DGO1P-PMS-LF	3	1.10E-03 ( 53.0)	3.31E-11 ( 41.5)	0.00E+00	1.14E-10
CSCD300A-PLG-LF	1	1.20E-02 ( 50.0)	3.03E-11 ( 43.0)	0.00E+00	5.21E-11
C0DGO1P-PMS-CC	1	2.50E-03 ( 40.0)	3.03E-11 ( 45.0)	0.00E+00	5.21E-11
NWVY01CA-FMS-CC	1	2.50E-03 ( 40.0)	3.03E-11 ( 45.0)	0.00E+00	5.21E-11

RHRB01A^ BCO-CC	1	2.50E-03 ( 40.0)	3.03E-11 ( 45.0)	0.00E+00	5.21E-11
C00G01P-P-UUM	1	3.00E-03 ( 32.5)	3.03E-11 ( 47.5)	0.00E+00	5.21E-11
RHR02AA-P-NDUUM	1	3.00E-03 ( 32.5)	3.03E-11 ( 47.5)	0.00E+00	5.21E-11
1EB36YB-BCO-LF	2	7.20E-05 (100.0)	2.00E-11 ( 49.5)	0.00E+00	3.44E-11
1EB236B-BCO-LF	2	7.20E-05 (100.0)	2.00E-11 ( 49.5)	0.00E+00	3.44E-11
1EB36Y1X-BCO-LF	1	7.20E-05 (100.0)	1.00E-11 ( 52.0)	0.00E+00	1.72E-11
1EB36XB-BCO-LF	1	7.20E-05 (100.0)	1.00E-11 ( 52.0)	0.00E+00	1.72E-11
SEVB001X-BCO-LF	1	7.20E-05 (100.0)	1.00E-11 ( 52.0)	0.00E+00	1.72E-11
CCB2DG1P-BCO-LF	1	8.40E-05 ( 92.5)	1.00E-11 ( 54.5)	0.00E+00	1.72E-11
1EB16212-BCO	1	8.40E-05 ( 92.5)	1.00E-11 ( 54.5)	0.00E+00	1.72E-11
RHR301BX-STR	1	1.10E-04 ( 91.0)	1.00E-11 ( 56.0)	0.00E+00	1.72E-11
RHRF55BX-R-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF51BB-N-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF60BB-S-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
SEVY03AX-A-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.72E-11
SCSF06BB-V-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF48BB-V-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRH01BX-H-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.72E-11
RHRF88BB-R-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF74BB-V-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF65BB-N-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF64BB-V-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
CSCF068B-V-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.72E-11
CSCD300B-S-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF87BB-V-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.71E-11
RHRF47BB-V-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.72E-11
ZDGO1PSC-000-LFO	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.72E-11
ZDGO1PK18CA-LFO	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.72E-11
C2DG01F-S-UUM	1	3.00E-04 ( 81.5)	1.00E-11 ( 65.5)	0.00E+00	1.72E-11
SEVY03CB-F-UUM	1	5.00E-04 ( 68.5)	1.00E-11 ( 77.0)	0.00E+00	1.72E-11
CSCF068B-VCC-LF	1	5.00E-04 ( 68.5)	1.00E-11 ( 77.0)	0.00E+00	1.72E-11
RHRF48BB-VOO-LF	1	5.00E-04 ( 68.5)	1.00E-11 ( 77.0)	0.00E+00	1.72E-11
ZDGT1PK18-ROO-LFO	1	5.00E-04 ( 68.5)	1.00E-11 ( 77.0)	0.00E+00	1.72E-11
RHRB01BB-BCO-LF	1	5.00E-04 ( 68.5)	1.00E-11 ( 77.0)	0.00E+00	1.72E-11
SEVY03CB-FMS-LF	1	5.40E-04 ( 65.0)	1.00E-11 ( 80.0)	0.00E+00	1.72E-11
C2DG01F-PLG-LF	1	5.80E-04 ( 64.0)	1.00E-11 ( 81.0)	0.00E+00	1.72E-11
LAK9BRCB-ROO-LFO	1	2.00E-02 ( 16.5)	9.82E-12 ( 82.5)	0.00E+00	1.66E-11
LAK18BRB-ROO-LFO	1	2.00E-02 ( 16.5)	9.82E-12 ( 82.5)	0.00E+00	1.66E-11
LAK93BRC-ROO-LFO	1	2.00E-02 ( 16.5)	7.48E-12 ( 84.5)	0.00E+00	1.18E-11
LAK14BRC-ROO-LFO	1	2.00E-02 ( 16.5)	7.48E-12 ( 84.5)	0.00E+00	1.18E-11
EE-MDP-PSW-BC-R	53	3.30E-01 ( 10.0)	2.18E-12 ( 86.0)	0.00E+00	3.36E-13
PSW01FBX-SIX-LF	2	7.20E-04 ( 59.5)	3.76E-13 ( 87.0)	0.00E+00	1.68E-13
ZWR01PB-BCO-LF	1	7.20E-05 (100.0)	1.88E-13 ( 89.0)	0.00E+00	1.68E-13
1EB233A-BCO-LF	1	7.20E-05 (100.0)	1.88E-13 ( 89.0)	0.00E+00	1.68E-13
ZWR01PA-BCO-LF	1	7.20E-05 (100.0)	1.88E-13 ( 89.0)	0.00E+00	1.68E-13
ZWR02MB-STR-LF	1	7.20E-04 ( 59.5)	1.88E-13 ( 92.5)	0.00E+00	1.68E-13
ZWR02MA-STR-LF	1	7.20E-04 ( 59.5)	1.88E-13 ( 92.5)	0.00E+00	1.68E-13
ZWR01PB-PMS-FR	1	7.20E-04 ( 59.5)	1.88E-13 ( 92.5)	0.00E+00	1.68E-13
ZWR01PA-PMS-FR	1	7.20E-04 ( 59.5)	1.88E-13 ( 92.5)	0.00E+00	1.68E-13
OPFA1L-VENT-2H	1	2.10E-03 ( 45.5)	6.20E-14 ( 95.0)	0.00E+00	5.54E-14
EE-CSCD300B-PLG	1	7.20E-04 ( 59.5)	3.20E-14 ( 96.5)	0.00E+00	3.05E-14
EE-C2DG01F-PLG	1	7.20E-04 ( 59.5)	3.20E-14 ( 96.5)	0.00E+00	3.05E-14

1EDC2DEP-FRP-27H	2	3.20E-03	( 27.5)	1.44E-14	( 98.0)	0.00E+00	3.02E-14
RA-2-1-27H	1	2.10E-03	( 45.5)	6.44E-15	( 99.0)	0.00E+00	4.27E-15
NOFLOW-SPC-BSX	1	1.00E+00	( 4.0)	0.00E+00	(103.0)		
NOFLOW-RHR-B1	1	1.00E+00	( 4.0)	0.00E+00	(103.0)		
NOFLOW-CSS-B7A	1	1.00E+00	( 4.0)	0.00E+00	(103.0)		
FLOW-RHR-B3	3	1.00E+00	( 4.0)	0.00E+00	(103.0)		
SCSF068B-DEMER	10	1.00E+00	( 4.0)	0.00E+00	(103.0)		
SCSF06AA-DEMER	3	1.00E+00	( 4.0)	0.00E+00	(103.0)		
RA-NONE	66	1.00E+00	( 4.0)	0.00E+00	(103.0)		

SEQUENCE TL18  
 UNCERTAINTY IMPORTANCE BY BASE EVENT  
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BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
SUR-002-L	20	1.60E-01 ( 11.0)	31.0 ( 1.0)	NA	1.93
RA-8-27H	20	3.20E-03 ( 27.5)	20.4 ( 2.5)	NA	2.03
1EDC2DEP-FRP-27H	2	3.20E-03 ( 27.5)	20.4 ( 2.5)	NA	2.03
CSCD300B-S-UUM	1	3.00E-04 ( 81.5)	8.8 ( 5.5)	NA	1.00
C2DG01F-S-UUM	1	3.00E-04 ( 81.5)	8.8 ( 5.5)	NA	1.00
SEVY03AX-A-UUM	1	3.00E-04 ( 81.5)	8.8 ( 5.5)	NA	1.00
RHRH01BX-H-UUM	1	3.00E-04 ( 81.5)	8.8 ( 5.5)	NA	1.00
2WR02MB-STR-LF	1	7.20E-04 ( 59.5)	7.6 ( 10.0)	NA	1.00
PSW01FBX-STX-LF	2	7.20E-04 ( 59.5)	7.6 ( 10.0)	NA	1.00
2WR02MA-STR-LF	1	7.20E-04 ( 59.5)	7.6 ( 10.0)	NA	1.00
EE-CSCD300B-PLG	1	7.20E-04 ( 59.5)	7.6 ( 10.0)	NA	1.00
EE-C2DG01F-PLG	1	7.20E-04 ( 59.5)	7.6 ( 10.0)	NA	1.00
DG2A-GEN-LF-FTR	2	1.90E-02 ( 20.5)	3.4 ( 13.5)	NA	0.83
DG0-GEN-LF-FTR	4	1.90E-02 ( 20.5)	3.4 ( 13.5)	NA	0.83
CONT-LEAK	148	7.50E-01 ( 8.0)	2.7 ( 15.0)	NA	0.75
CCB2DG1P-BCO-LF	1	8.40E-05 ( 92.5)	2.5 ( 16.5)	NA	1.00
1EB16212-BCO	1	8.40E-05 ( 92.5)	2.5 ( 16.5)	NA	1.00
DG2A-GEN-LF-FTS	4	2.50E-02 ( 12.5)	2.2 ( 18.5)	NA	1.18
DG0-GEN-LF-FTS	6	2.50E-02 ( 12.5)	2.2 ( 18.5)	NA	1.18
1EB2Y22X-BCO	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB36Y1X-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB211YX-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB236B-BCO-LF	2	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB36YB-BCO-LF	2	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB233A-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB212YX-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
2WR01PA-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
2WR01PB-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
SEVB001X-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB36XB-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
1EB1Y22X-BCO	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
2C11C001A-BCO-LF	1	7.20E-05 (100.0)	2.2 ( 26.0)	NA	1.00
SEVY03CB-FMS-LF	1	5.40E-04 ( 65.0)	2.0 ( 33.0)	NA	1.00
2C11F001B-RCO-LF	7	1.20E-03 ( 50.0)	1.9 ( 34.0)	NA	1.00
SCSF06BB-V-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF87BB-V-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF74BB-V-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF64BB-V-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
CSCF06BB-V-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF48BB-V-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF47BB-V-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF51BB-N-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF65BB-N-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF88BX-R-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00
RHRF60BB-S-UUM	1	3.00E-04 ( 81.5)	1.4 ( 40.5)	NA	1.00

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RHRF55SX-R-UUM	1	3.00E-04	( 81.5)	1.4	( 40.5)	NA	1.00
RA-2-11-27H	2	1.60E-03	( 48.0)	1.1	( 47.0)	NA	1.00
AP040K2-RCO-LFG	6	2.00E-02	( 16.5)	1.1	( 50.5)	NA	1.31
LAK98RCB-ROO-LFO	1	2.00E-02	( 16.5)	1.1	( 50.5)	NA	1.31
LAK188RB-ROO-LFO	1	2.00E-02	( 16.5)	1.1	( 50.5)	NA	1.31
AP039K2-ROO-LFO	6	2.00E-02	( 16.5)	1.1	( 50.5)	NA	1.31
LAK938RC-ROO-LFO	1	2.00E-02	( 16.5)	1.1	( 50.5)	NA	1.31
LAK148RC-RCO-LFO	1	2.00E-02	( 16.5)	1.1	( 50.5)	NA	1.31
Q1	148	8.20E-03	( 22.0)	1.1	( 54.0)	NA	1.51
NWVY01CA-FMS-CC	1	2.50E-03	( 40.0)	1.0	( 58.0)	NA	0.97
C00G01P-FMS-CC	1	2.50E-03	( 40.0)	1.0	( 58.0)	NA	0.97
2C11C001B-BOO-CC	7	2.50E-03	( 40.0)	1.0	( 58.0)	NA	0.97
SEVY03CB-FMS-CC	7	2.50E-03	( 40.0)	1.0	( 58.0)	NA	0.97
RHRB01BB-BOO-CC	7	2.50E-03	( 40.0)	1.0	( 58.0)	NA	0.97
RHRB01AA-BOO-CC	1	2.50E-03	( 40.0)	1.0	( 58.0)	NA	0.97
C20G01P-FMS-CC	7	2.50E-03	( 40.0)	1.0	( 58.0)	NA	0.97
2D0G01PSC-OOO-LFO	1	3.00E-04	( 81.5)	0.9	( 62.5)	NA	1.00
2D0G01PK18CA-LFOO	1	3.00E-04	( 81.5)	0.9	( 62.5)	NA	1.00
SEVY03AX-ACX-LFI	3	8.40E-04	( 55.0)	0.7	( 64.0)	NA	1.00
SEVY03CB-F-UUM	1	5.00E-04	( 68.5)	0.5	( 65.0)	NA	1.00
SUR-006-L	128	4.70E-04	( 72.0)	0.1	( 66.0)		
2C11C001B-BOO-LF	11	5.00E-04	( 68.5)	0.0	( 82.5)		
C00G01P-P-UUM	1	3.00E-03	( 32.5)	0.0	( 82.5)		
LCSC002A-P-UUM	3	3.00E-03	( 32.5)	0.0	( 82.5)		
2C11C001A-PMS-LF	1	7.20E-04	( 59.5)	0.0	( 82.5)		
2WR01PB-PMS-FR	1	7.20E-04	( 59.5)	0.0	( 82.5)		
DG2A-G-UUM	1	6.00E-03	( 25.5)	0.0	( 82.5)		
RHRH01BX-HTX-LFB	13	6.20E-03	( 23.5)	0.0	( 82.5)		
RHRH01AX-HTX-LFB	11	6.20E-03	( 23.5)	0.0	( 82.5)		
2WR01PA-PMS-FR	1	7.20E-04	( 59.5)	0.0	( 82.5)		
DG0-G-UUM	3	6.00E-03	( 25.5)	0.0	( 82.5)		
CSCF068B-VCC-LF	1	5.00E-04	( 68.5)	0.0	( 82.5)		
RHRF48BB-V00-LF	1	5.00E-04	( 68.5)	0.0	( 82.5)		
2D0G1PK1B-ROO-LFO	1	5.00E-04	( 68.5)	0.0	( 82.5)		
CSC0300B-PLG-LF	4	1.20E-03	( 50.0)	0.0	( 82.5)		
RHRC02BB-PMS-LF	3	1.10E-03	( 53.0)	0.0	( 82.5)		
RHRC02BB-P-UUM	7	3.00E-03	( 32.5)	0.0	( 82.5)		
CSC0300A-PLG-LF	1	1.20E-03	( 50.0)	0.0	( 82.5)		
RHRC02BB-P-NDUUM	7	3.00E-03	( 32.5)	0.0	( 82.5)		
RHRC02AA-P-UUM	3	3.00E-03	( 32.5)	0.0	( 82.5)		
CRD1-REALIGN-OE	17	2.10E-03	( 45.5)	0.0	( 82.5)		
RHRC02AA-P-NDUUM	1	3.00E-03	( 32.5)	0.0	( 82.5)		
RHRB01BB-BOO-LF	1	5.00E-04	( 68.5)	0.0	( 82.5)		
RHR301BX-STR	1	1.10E-04	( 91.0)	0.0	( 82.5)		
C20G01P-PMS-LF	3	1.10E-03	( 53.0)	0.0	( 82.5)		
RA-9-27H	8	4.00E-01	( 9.0)	0.0	( 82.5)		
RA-2-1-27H	1	2.10E-03	( 45.5)	0.0	( 82.5)		
C20G01P-P-UUM	7	3.00E-03	( 32.5)	0.0	( 82.5)		
2C11C001B-PMS-LF	11	1.10E-03	( 53.0)	0.0	( 82.5)		
RA-1-1-27H	59	2.10E-03	( 45.5)	0.0	( 82.5)		
OPFAIL-VENT-2H	1	2.10E-03	( 45.5)	0.0	( 82.5)		
C20G01F-PLG-LF	1	5.80E-04	( 64.0)	0.0	( 82.5)		

2C110001B-P-UJM	7	3.00E+03	( 32.5)	0.0	( 82.5)
NOFLOW-SPC-B5X	1	1.00E+00	( 4.0)		
NOFLOW-RHR-B1	1	1.00E+00	( 4.0)		
NOFLOW-CSS-B7A	1	1.00E+00	( 4.0)		
FLOW-RHR-53	3	1.00E+00	( 4.0)		
EE-WOP-FSM-BC-R	53	3.30E-01	( 10.0)		
SCSF068B-DENER	10	1.00E+00	( 4.0)		
SCSF068A-DENER	3	1.00E+00	( 4.0)		
PA-NONE	66	1.00E+00	( 4.0)		



SEQUENCE TL'R

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT PDSA1-TL-SEQ2A WITH TOP EVENT FREQUENCY 1.07E-09

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	6	7	1.51E-10	0.14131	AP040X2-ROO-LFO	* CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
3					Q1	* RA-8-27H	* SUR-002-L	+	
4	5	7	1.51E-10	0.28261	AP039X2-ROO-LFO	* CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
5					Q1	* RA-8-27H	* SUR-002-L	+	
6	8	7	1.15E-10	0.39001	AP040X2-ROO-LFO	* CONT-LEAK	* DGO-GEN-LF-FTR	* IE-LOSP	*
7					Q1	* RA-8-27H	* SUR-002-L	+	
8	7	7	1.15E-10	0.49740	AP039X2-ROO-LFO	* CONT-LEAK	* DGO-GEN-LF-FTR	* IE-LOSP	*
9					Q1	* RA-8-27H	* SUR-002-L	+	
10	9	8	7.56E-11	0.56805	CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	*
11					Q1	* RA-8-27H	* SUR-002-L	+	
12	11	8	5.74E-11	0.62175	CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* IE-LOSP	*
13					Q1	* RA-8-27H	* RA-9-27H	* SUR-002-L	+
14	12	8	5.74E-11	0.67545	CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
15					Q1	* RA-8-27H	* RA-9-27H	* SUR-002-L	+
16	18	8	4.36E-11	0.71626	CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP	*
17					Q1	* RA-8-27H	* RA-9-27H	* SUR-002-L	+
18	19	7	3.75E-11	0.75130	AP040X2-ROO-LFO	* CONT-LEAK	* IE-LOSP	* Q1	*
19					RA-8-27H	* RHRH01AX-HTX-LFB	* SUR-002-L	+	
20	20	7	3.75E-11	0.78635	AP039X2-ROO-LFO	* CONT-LEAK	* IE-LOSP	* Q1	*
21					RA-8-27H	* RHRH01AX-HTX-LFB	* SUR-002-L	+	
22	24	7	3.63E-11	0.82026	AP039X2-ROO-LFO	* CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
23					Q1	* RA-8-27H	* SUR-002-L	+	
24	23	7	3.63E-11	0.85417	AP040X2-ROO-LFO	* CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
25					Q1	* RA-8-27H	* SUR-002-L	+	
26	47	8	1.87E-11	0.87170	CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	* Q1	*
27					RA-8-27H	* RA-9-27H	* RHRH01BX-HTX-LFB	* SUR-002-L	+
28	46	8	1.87E-11	0.88922	CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	* Q1	*
29					RA-8-27H	* RA-9-27H	* RHRH01AX-HTX-LFB	* SUR-002-L	+
30	54	8	1.81E-11	0.90617	CONT-LEAK	* DGO-G-UUM	* DG2A-GEN-LF-FTS	* IE-LOSP	*
31					Q1	* RA-8-27H	* RA-9-27H	* SUR-002-L	+
32	58	8	1.81E-11	0.92313	AP040X2-ROO-LFO	* CONT-LEAK	* IE-LOSP	* Q1	*
33					RA-8-27H	* RHRCD2AA-P-UUM	* SCSF06AA-DENER	* SUR-002-L	+
34	57	7	1.81E-11	0.94009	AP039X2-ROO-LFO	* CONT-LEAK	* IE-LOSP	* LCSC002A-P-UUM	*
35					Q1	* RA-8-27H	* SUR-002-L	+	
36	55	7	1.81E-11	0.95705	AP040X2-ROO-LFO	* CONT-LEAK	* IE-LOSP	* LCSC002A-P-UUM	*
37					Q1	* RA-8-27H	* SUR-002-L	+	
38	56	8	1.81E-11	0.97400	CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-G-UUM	* IE-LOSP	*
39					Q1	* RA-8-27H	* RA-9-27H	* SUR-002-L	+
40	59	8	1.81E-11	0.99096	AP039X2-ROO-LFO	* CONT-LEAK	* IE-LOSP	* Q1	*
41					RA-8-27H	* RHRCD2AA-P-UUM	* SCSF06AA-DENER	* SUR-002-L	+
42	3	6	1.04E-12	0.99193	1EB1Y22X-BCO	* CONT-LEAK	* IE-T102	* Q1	*
43					RA-NONE	* SUR-006-L	+		

SEQUENCE TL20

TOP EVENT POSA2-TL-SEQ2A CONTAINS 110 EVENTS IN 148 CUT SETS

THE FREQUENCY OF TOP EVENT POSA2-TL-SEQ2A IS 4.24E-11

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT POSA2-TL-SEQ2A

N	300
MEAN	9.46E-11
STD DEV	6.33E-10
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	2.69E-10

90% U \*FAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTER \*K DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD \times$  RISK REDUCTION  
=  $PD \times (1 - EV(J))$   
=  $TEF(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE TL20  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
Q1	148	8.20E-03 ( 22.0)	4.24E-11 ( 1.0)	0.00E+00	2.69E-10
RA-8-27H	20	3.20E-03 ( 27.5)	3.97E-11 ( 2.5)	0.00E+00	2.10E-10
SUR-027-R	20	1.80E-02 ( 21.0)	3.97E-11 ( 2.5)	0.00E+00	2.10E-10
DGO-GEN-LF-FTS	6	7.50E-02 ( 11.5)	1.77E-11 ( 4.0)	0.00E+00	5.70E-11
AP040X2-ROO-LFO	6	2.00E-02 ( 15.5)	1.41E-11 ( 5.5)	0.00E+00	5.98E-11
AP039X2-ROO-LFO	6	2.00E-02 ( 15.5)	1.41E-11 ( 5.5)	0.00E+00	5.98E-11
DGO-GEN-LF-FTR	4	1.90E-02 ( 19.5)	1.21E-11 ( 7.0)	0.00E+00	4.29E-11
RA-9-27H	8	4.00E-01 ( 9.0)	1.15E-11 ( 8.0)	0.00E+00	5.04E-11
DG2A-GEN-LF-FTS	4	2.50E-02 ( 11.5)	6.37E-12 ( 9.0)	0.00E+00	2.90E-11
DG2A-GEN-LF-FTR	2	1.90E-02 ( 19.5)	3.79E-12 ( 10.0)	0.00E+00	1.38E-11
RHRH01X-HTX-LFB	11	6.20E-03 ( 23.5)	3.58E-12 ( 11.0)	0.00E+00	8.68E-12
DGO-G-UUM	3	6.00E-03 ( 25.5)	3.40E-12 ( 12.0)	0.00E+00	1.95E-11
SUR-028-R	128	3.80E-04 ( 72.0)	2.61E-12 ( 13.0)	0.00E+00	3.34E-11
RA-NONE	66	1.00E+00 ( 4.0)	2.32E-12 ( 14.0)		
SCSF06AA-DENER	3	1.00E+00 ( 4.0)	1.38E-12 ( 16.0)		
RHRC02AA-P-UUM	3	3.00E-03 ( 32.5)	1.38E-12 ( 16.0)	0.00E+00	3.33E-12
LCSC002A-P-UUM	3	3.00E-03 ( 32.5)	1.38E-12 ( 16.0)	0.00E+00	3.33E-12
RHRH01BX-HTX-LFB	13	6.20E-03 ( 23.5)	9.71E-13 ( 18.0)	0.00E+00	4.44E-12
DG2A-G-UUM	1	6.00E-03 ( 25.5)	6.80E-13 ( 19.0)	0.00E+00	3.05E-12
CRD1-REALIGN-DE	17	2.10E-03 ( 45.5)	4.16E-13 ( 20.0)	0.00E+00	3.54E-12
EE-MDP-PSW-BC-R	53	3.30E-01 ( 10.0)	2.89E-13 ( 21.0)		
1EB2Y22X-BCO	1	7.20E-05 (100.0)	2.80E-13 ( 23.5)	0.00E+00	2.51E-12
1EB212YX-BCO-LF	1	7.20E-05 (100.0)	2.80E-13 ( 23.5)	0.00E+00	2.51E-12
1EB1Y22X-RCO	1	7.20E-05 (100.0)	2.80E-13 ( 23.5)	0.00E+00	2.51E-12
1EB211YX-BCO-LF	1	7.20E-05 (100.0)	2.80E-13 ( 23.5)	0.00E+00	2.51E-12
2C11C001B-P-UUM	7	3.00E-03 ( 32.5)	2.65E-13 ( 26.0)	0.00E+00	1.71E-12
2C11C001B-BOO-LC	7	2.50E-03 ( 40.0)	2.21E-13 ( 27.0)	0.00E+00	2.07E-12
RA-1-1-27H	59	2.10E-03 ( 45.5)	2.07E-13 ( 28.0)	0.00E+00	1.30E-12
SCSF06BB-DENER	10	1.00E+00 ( 4.0)	1.32E-13 ( 29.0)		
C2DG01P-P-UUM	7	3.00E-03 ( 32.5)	1.30E-13 ( 31.0)	0.00E+00	7.59E-13
RHRC02BB-P-UUM	7	3.00E-03 ( 32.5)	1.30E-13 ( 31.0)	0.00E+00	6.52E-13
RHRC02BB-P-NOUUM	7	3.00E-03 ( 32.5)	1.30E-13 ( 31.0)	0.00E+00	7.59E-13
2C11C001B-PMS-LF	11	1.10E-03 ( 53.0)	1.15E-13 ( 33.0)	0.00E+00	5.12E-13
SEVY03CB-FMS-CC	7	2.50E-03 ( 40.0)	1.08E-13 ( 35.0)	0.00E+00	9.13E-13
RHRB01BB-BOO-CC	7	2.50E-03 ( 40.0)	1.08E-13 ( 35.0)	0.00E+00	9.13E-13
C2DG01P-PMS-CC	7	2.50E-03 ( 40.0)	1.08E-13 ( 35.0)	0.00E+00	9.13E-13
2C11F001B-RCO-LF	7	1.20E-03 ( 50.0)	1.06E-13 ( 37.0)	0.00E+00	6.80E-13
RA-2-11-27H	2	1.60E-03 ( 48.0)	8.23E-14 ( 38.0)	0.00E+00	1.81E-13
LAK9BRCB-ROO-LFO	1	2.00E-02 ( 15.5)	5.40E-14 ( 39.5)	0.00E+00	1.59E-13
LAK18BRB-ROO-LFC	1	2.00E-02 ( 15.5)	5.40E-14 ( 39.5)	0.00E+00	1.59E-13
2C11C001B-BOO-LF	11	5.00E-04 ( 68.5)	5.25E-14 ( 41.0)	0.00E+00	3.03E-13
FLOW-RHR-B3	3	1.00E+00 ( 4.0)	4.33E-14 ( 42.0)		
NOFLOW-SPC-B5X	1	1.00E+00 ( 4.0)	4.11E-14 ( 44.5)		
LAK93BRC-ROO-LFO	1	2.00E-02 ( 15.5)	4.11E-14 ( 44.5)	0.00E+00	9.05E-14
LAK14BRC-RCO-LFO	1	2.00E-02 ( 15.5)	4.11E-14 ( 44.5)	0.00E+00	9.05E-14

NDFLOW-CSS-B7A	1	1.00E+00 ( 4.0)	4.11E-14 ( 44.5)	0.00E+00	1.18E-13
COE001P-P-UJM	1	3.00E-03 ( 32.5)	2.45E-14 ( 47.5)	0.00E+00	1.18E-13
RHR02AA-P-NDUJM	1	3.00E-03 ( 32.5)	2.45E-14 ( 47.5)	0.00E+00	1.18E-13
CSC0300B-PLG-LF	4	1.20E-03 ( 50.0)	5.14E-14 ( 49.0)	0.00E+00	6.76E-14
NWVY01CA-FMS-CC	1	2.50E-03 ( 40.0)	5.14E-14 ( 51.0)	0.00E+00	9.50E-14
COE001P-PMS-CC	1	2.50E-03 ( 40.0)	5.14E-14 ( 51.0)	0.00E+00	9.50E-14
RHR01AA-P0D-CC	1	2.50E-03 ( 40.0)	5.14E-14 ( 51.0)	0.00E+00	9.50E-14
2C11C001A-PMS-LF	1	7.20E-04 ( 59.5)	1.74E-14 ( 53.0)	0.00E+00	5.49E-14
RHR02BB-PMS-LF	3	1.10E-03 ( 53.0)	9.82E-15 ( 54.5)	0.00E+00	5.14E-14
CZD001P-PMS-LF	3	1.10E-03 ( 53.0)	9.82E-15 ( 54.5)	0.00E+00	5.14E-14
FSCD300A-PLG-LF	1	1.20E-03 ( 50.0)	9.82E-15 ( 56.0)	0.00E+00	3.92E-14
VY03AX-ACK-LFI	3	8.40E-04 ( 55.0)	7.50E-15 ( 57.0)	0.00E+00	3.09E-14
2 11C001A-BCC-LF	1	7.20E-05 (100.0)	1.74E-15 ( 58.0)	0.00E+00	1.01E-14
CZD001P-PLG-LF	1	5.80E-04 ( 64.0)	1.57E-15 ( 59.0)	0.00E+00	6.71E-15
SEVY03CB-FMS-LF	1	5.40E-04 ( 65.0)	1.46E-15 ( 60.0)	0.00E+00	1.25E-14
SEVY03CB-F-UJM	1	5.00E-04 ( 68.5)	1.35E-15 ( 63.0)	0.00E+00	1.26E-14
2D01PK18-R00-LFO	1	5.00E-04 ( 68.5)	1.35E-15 ( 63.0)	0.00E+00	3.69E-15
CSCF06BB-VCC-LF	1	5.00E-04 ( 68.5)	1.35E-15 ( 63.0)	0.00E+00	5.11E-15
RHR01SB-R00-LF	1	5.00E-04 ( 68.5)	1.35E-15 ( 63.0)	0.00E+00	4.71E-15
RHRF48BB-V00-LF	1	5.00E-04 ( 68.5)	1.35E-15 ( 63.0)	0.00E+00	5.11E-15
RHRF87BB-V-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
SEVY03AX-A-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.95E-15
SCSF06BB-V-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF60BB-S-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHR01SB-R-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF89X-R-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF74BB-V-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF65BB-N-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF64BB-V-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
CSCF06BB-V-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF51BB-N-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
CSCD300B-S-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF48BB-V-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF47BB-V-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
2D001PSC-000-LFO	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
2D001PK18CA-LFO0	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
CZD001F-S-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
RHRF55BB-R-UJM	1	3.00E-04 ( 81.5)	8.10E-16 ( 74.5)	0.00E+00	2.45E-15
1E8236B-BCC-LF	2	7.20E-05 (100.0)	3.89E-16 ( 84.5)	0.00E+00	1.48E-15
1E836YB-BCC-LF	2	7.20E-05 (100.0)	3.89E-16 ( 84.5)	0.00E+00	1.48E-15
NDFLOW-RHR-B1	1	1.00E+00 ( 4.0)	2.97E-16 ( 86.5)	0.00E+00	1.25E-15
RHR3018X-STR	1	1.10E-04 ( 91.0)	2.97E-16 ( 86.5)	0.00E+00	7.93E-16
CC82001P-BCC-LF	1	8.40E-05 ( 92.5)	2.27E-16 ( 88.5)	0.00E+00	7.93E-16
1E816212-BCC	1	8.40E-05 ( 92.5)	2.27E-16 ( 88.5)	0.00E+00	7.93E-16
SEV8001X-BCC-LF	1	7.20E-05 (100.0)	1.94E-16 ( 91.0)	0.00E+00	7.38E-16
1E836Y1X-BCC-LF	1	7.20E-05 (100.0)	1.94E-16 ( 91.0)	0.00E+00	7.38E-16
1E836XB-BCC-LF	1	7.20E-05 (100.0)	1.94E-16 ( 91.0)	0.00E+00	7.38E-16
PSW01FBX-STX-LF	2	7.20E-04 ( 59.5)	7.30E-17 ( 93.0)	0.00E+00	1.38E-16
2WR02MB-STR-LF	1	7.20E-04 ( 59.5)	3.65E-17 ( 95.5)	0.00E+00	6.91E-17
2WR02MA-STR-LF	1	7.20E-04 ( 59.5)	3.65E-17 ( 95.5)	0.00E+00	6.91E-17
2WR01PB-PMS-FR	1	7.20E-04 ( 59.5)	3.65E-17 ( 95.5)	0.00E+00	1.01E-16
2WR01PA-PMS-FR	1	7.20E-04 ( 59.5)	3.65E-17 ( 95.5)	0.00E+00	1.01E-16

OPFAIL-VENT-2H	1	2.10E-03 ( 45.5)	3.51E-17 ( 98.0)	0.00E+00	1.75E-16
1EDCZDEP-FRP-27H	2	3.20E-03 ( 27.5)	1.24E-17 ( 99.0)	0.00E+00	9.83E-18
EE-CSCD300B-PLG	1	7.20E-04 ( 59.5)	6.22E-18 (100.5)	0.00E+00	4.91E-18
EE-C2DGG01F-PLG	1	7.20E-04 ( 59.5)	6.22E-18 (100.5)	0.00E+00	4.91E-18
ZWR01PB-BCO-LF	1	7.20E-05 (100.0)	3.65E-18 (103.5)	0.00E+00	1.24E-17
ZWR01PA-BCO-LF	1	7.20E-05 (100.0)	3.65E-18 (103.5)	0.00E+00	1.24E-17
1EB23YA-BCO-LF	1	7.20E-05 (100.0)	3.65E-18 (103.5)	0.00E+00	1.24E-17
RA-2-1-27H	1	2.10E-03 ( 45.5)	3.65E-18 (103.5)	0.00E+00	1.24E-17
CONT-LEAK	148	7.50E-01 ( 8.0)	-1.27E-10 (106.0)	0.00E+00	0.00E+00

SEQUENCE 1L20  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%	
RA-8-27H	20	3.20E-03	( 27.5)	1.24E-08	( 1.0)	0.00E+00	1.42E-07
SUR-028-R	128	3.80E-04	( 72.0)	6.86E-09	( 2.0)	0.00E+00	3.07E-08
01	148	8.20E-03	( 22.0)	5.12E-09	( 3.0)	0.00E+00	6.06E-08
1E8211Y-BCO-LF	1	7.20E-05	(100.0)	3.89E-09	( 5.5)	0.00E+00	4.49E-08
1E8212X-BCO	1	7.20E-05	(100.0)	3.89E-09	( 5.5)	0.00E+00	4.49E-08
1E81Y22X-BCO	1	7.20E-05	(100.0)	3.89E-09	( 5.5)	0.00E+00	4.49E-08
1E8212Y-BCO-LF	1	7.20E-05	(100.0)	3.89E-09	( 5.5)	0.00E+00	4.49E-08
SUR-027-R	20	1.80E-02	( 21.0)	2.17E-09	( 8.0)	0.00E+00	3.09E-09
AP039X2-R00-LFO	6	2.00E-02	( 15.5)	6.91E-10	( 9.5)	0.00E+00	4.12E-09
AP040X2-R00-LFO	6	2.00E-02	( 15.5)	6.91E-10	( 9.5)	0.00E+00	4.12E-09
DG0-GEN-LF-FTS	3	2.50E-02	( 11.5)	6.91E-10	( 11.0)	0.00E+00	4.68E-09
DG0-GEN-LF-FTR	4	1.90E-02	( 19.5)	6.41E-10	( 12.0)	0.00E+00	3.69E-09
RHR01AX-HTK-LFB	11	6.20E-03	( 23.5)	5.74E-10	( 13.0)	0.00E+00	3.50E-09
DG0-G-UUM	3	6.00E-03	( 25.5)	5.63E-10	( 14.0)	0.00E+00	3.42E-09
RHR02AA-P-UUM	3	3.00E-03	( 31.5)	4.50E-10	( 15.5)	0.00E+00	2.30E-09
LCSC002A-P-UUM	3	3.00E-03	( 32.5)	4.60E-10	( 15.5)	0.00E+00	2.30E-09
DG2A-GEN-LF-FTS	4	2.50E-02	( 11.5)	2.48E-10	( 17.0)	0.00E+00	1.39E-09
CR01-REALIGN-OE	17	2.10E-03	( 45.5)	1.97E-10	( 18.0)	0.00E+00	2.87E-09
D12A-GEN-LF-FTR	2	1.90E-02	( 19.5)	1.96E-10	( 19.0)	0.00E+00	9.66E-10
RHR018R-HTK-LFB	13	6.20E-03	( 23.5)	1.56E-10	( 20.0)	0.00E+00	1.25E-09
DG2A-G-UUM	1	6.00E-03	( 25.5)	1.13E-10	( 21.0)	0.00E+00	5.49E-10
2C11C001B-B00-LF	11	5.00E-04	( 68.5)	1.05E-10	( 22.0)	0.00E+00	1.45E-09
2C11C001B-FMS-LF	11	1.10E-03	( 53.0)	1.05E-10	( 23.0)	0.00E+00	1.45E-09
RA-1-1-27H	59	2.10E-03	( 45.5)	9.86E-11	( 1.0)	0.00E+00	8.98E-10
2C11F001B-R00-LF	7	1.20E-03	( 50.0)	8.83E-11	( 25.0)	0.00E+00	1.25E-09
2C11C001B-B00-CC	7	2.50E-03	( 40.0)	8.82E-11	( 26.0)	0.00E+00	1.25E-09
2C11C001B-P-UUM	7	3.00E-03	( 32.5)	8.82E-11	( 27.0)	0.00E+00	1.25E-09
RA-2-11-27H	2	1.60E-03	( 48.0)	5.13E-11	( 28.0)	0.00E+00	2.42E-10
SEVY03CB-FMS-CC	7	2.50E-03	( 40.0)	4.31E-11	( 30.0)	0.00E+00	6.05E-10
2D601P-FMS-CC	7	2.50E-03	( 40.0)	4.31E-11	( 30.0)	0.00E+00	6.05E-10
RHR018B-B00-CC	7	2.50E-03	( 40.0)	4.31E-11	( 30.0)	0.00E+00	6.05E-10
R4RC028B-P-UUM	7	3.00E-03	( 32.5)	4.31E-11	( 33.0)	0.00E+00	6.05E-10
RHR028B-P-UUM	7	3.00E-03	( 32.5)	4.31E-11	( 33.0)	0.00E+00	6.05E-10
2D601P-P-UUM	7	3.00E-03	( 32.5)	4.31E-11	( 33.0)	0.00E+00	6.05E-10
2C11C001A-B00-LF	1	7.20E-05	(100.0)	2.41E-11	( 35.0)	0.00E+00	2.40E-10
2C11C001A-FMS-LF	1	7.20E-04	( 59.5)	2.41E-11	( 36.0)	0.00E+00	2.40E-10
RA-9-27H	8	4.00E-01	( 9.0)	1.73E-11	( 37.0)	0.00E+00	9.69E-11
CSC0300B-PLG-LF	4	1.20E-03	( 50.0)	1.71E-11	( 38.0)	0.00E+00	1.27E-10
SEVY03AX-ACK-LFI	3	6.40E-04	( 52.0)	8.92E-12	( 39.0)	0.00E+00	7.06E-11
2D601P-FMS-LF	3	1.10E-03	( 53.0)	8.92E-12	( 40.5)	0.00E+00	7.05E-11
RHR028B-FMS-LF	3	1.10E-03	( 53.0)	8.92E-12	( 40.5)	0.00E+00	7.05E-11
CSC0300A-PLG-LF	1	1.20E-03	( 50.0)	8.17E-12	( 42.0)	0.00E+00	6.77E-11
2D601P-FMS-CC	1	2.50E-03	( 40.0)	8.16E-12	( 44.0)	0.00E+00	6.76E-11
WVY01CA-FMS-CC	1	2.50E-03	( 40.0)	8.16E-12	( 44.0)	0.00E+00	6.76E-11
RHR01AA-B00-CC	1	2.50E-03	( 40.0)	8.16E-12	( 44.0)	0.00E+00	6.76E-11

C0DG01P-P-UUM	1	3.00E-03 ( 32.5)	8.15E-12 ( 46.5)	0.00E+00	6.77E-11
RHR020AA-P-NDUUM	1	7.00E-03 ( 32.5)	8.15E-12 ( 46.5)	0.00E+00	6.77E-11
1EB36YB-BCO-LF	2	7.20E-05 (100.0)	5.40E-12 ( 48.5)	0.00E+00	4.47E-11
1EB236B-BCO-LF	2	7.20E-05 (100.0)	5.40E-12 ( 48.5)	0.00E+00	4.47E-11
SEVB001X-BCO-LF	1	7.20E-05 (100.0)	2.70E-12 ( 51.0)	0.00E+00	2.24E-11
1EB36Y1X-BCO-LF	1	7.20E-05 (100.0)	2.70E-12 ( 51.0)	0.00E+00	2.24E-11
1EB36XB-BCO-LF	1	7.20E-05 (100.0)	2.70E-12 ( 51.0)	0.00E+00	2.24E-11
CCB20G1P-BCO-LF	1	8.40E-05 ( 92.5)	2.70E-12 ( 53.5)	0.00E+00	2.24E-11
1EB16212-BCO	1	8.40E-05 ( 92.5)	2.70E-12 ( 53.5)	0.00E+00	2.24E-11
RHR301BX-STR	1	1.10E-04 ( 91.0)	2.70E-12 ( 55.0)	0.00E+00	2.24E-11
RHRF48BB-V-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
RHRF87BB-V-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
RHRF55BX-R-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
SEVY03AX-A-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.24E-11
SCSF06BB-V-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
RHRH01BX-H-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.24E-11
RHRF88BX-R-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
RHRF74BB-V-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
RHRF65BB-N-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
RHRF64BB-V-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
CSCF068B-V-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
RHRF51BB-N-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
CSCD300B-S-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.24E-11
RHRF47BB-V-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
ZDG01PSC-000-LFO	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.24E-11
ZDL01PK18CA-LFO	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.24E-11
RHRF60BB-S-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.23E-11
C2DG01F-S-UUM	1	3.00E-04 ( 81.5)	2.70E-12 ( 64.5)	0.00E+00	2.24E-11
SEVY03CB-F-UUM	1	5.00E-04 ( 68.5)	2.70E-12 ( 76.0)	0.00E+00	2.23E-11
CSCF068B-VCC-LF	1	5.00E-04 ( 68.5)	2.70E-12 ( 76.0)	0.00E+00	2.24E-11
RHRF48BB-VCC-LF	1	5.00E-04 ( 68.5)	2.70E-12 ( 76.0)	0.00E+00	2.24E-11
ZDG1PK18-ROO-LFO	1	5.00E-04 ( 68.5)	2.70E-12 ( 76.0)	0.00E+00	2.24E-11
RHRB01BB-ROO-LF	1	5.00E-04 ( 68.5)	2.70E-12 ( 76.0)	0.00E+00	2.24E-11
SEVY03CB-FMS-LF	1	5.40E-04 ( 65.0)	2.70E-12 ( 79.0)	0.00E+00	2.23E-11
C2DG01F-PLG-LF	1	5.80E-04 ( 64.0)	2.70E-12 ( 80.0)	0.00E+00	2.24E-11
LAK9BRCB-ROO-LFO	1	2.00E-02 ( 15.5)	2.65E-12 ( 81.5)	0.00E+00	2.21E-11
LAK188RB-ROO-LFO	1	2.00E-02 ( 15.5)	2.65E-12 ( 81.5)	0.00E+00	2.21E-11
LAK93BRC-ROO-LFO	1	2.00E-02 ( 15.5)	2.02E-12 ( 83.5)	0.00E+00	9.07E-12
LAK14BRC-ROO-LFO	1	2.00E-02 ( 15.5)	2.02E-12 ( 83.5)	0.00E+00	9.07E-12
EE-MDP-PSW-BC-R	53	3.30E-01 ( 10.0)	5.88E-13 ( 85.0)		
PSW01FBX-STX-LF	2	7.20E-04 ( 59.5)	1.01E-13 ( 86.0)	0.00E+00	5.95E-13
ZWR01PB-BCO-LF	1	7.20E-05 (100.0)	5.07E-14 ( 88.0)	0.00E+00	2.98E-13
1EB233A-BCO-LF	1	7.20E-05 (100.0)	5.07E-14 ( 88.0)	0.00E+00	2.98E-13
ZWR01PA-BCO-LF	1	7.20E-05 (100.0)	5.07E-14 ( 88.0)	0.00E+00	2.98E-13
ZWR02MB-STR-LF	1	7.20E-04 ( 59.5)	5.07E-14 ( 91.5)	0.00E+00	2.98E-13
ZWR02MA-STR-LF	1	7.20E-04 ( 59.5)	5.07E-14 ( 91.5)	0.00E+00	2.98E-13
ZWR01PB-PMS-FR	1	7.20E-04 ( 59.5)	5.07E-14 ( 91.5)	0.00E+00	2.98E-13
ZWR01PA-PMS-FR	1	7.20E-04 ( 59.5)	5.07E-14 ( 91.5)	0.00E+00	2.98E-13
OPFAIL-VENT-2H	1	2.10E-03 ( 45.5)	1.67E-14 ( 94.0)	0.00E+00	9.80E-14
EE-CSCD300B-PLG	1	7.20E-04 ( 59.5)	8.63E-15 ( 95.5)	0.00E+00	2.65E-14
EE-C2DG01F-PLG	1	7.20E-04 ( 59.5)	8.63E-15 ( 95.5)	0.00E+00	2.65E-14
1EDC20EP-FRP-27H	2	3.20E-03 ( 27.5)	3.87E-15 ( 97.0)	0.00E+00	1.48E-14

RA-2-1-27H	1	2.10E-05 ( 45.5)	1.74E-15 ( 98.0)	0.00E+00	1.01E-14
NOFLOW-SPC-85X	1	1.00E+00 ( 4.0)	0.00E+00 (102.0)		
NOFLOW-RHR-B1	1	1.00E+00 ( 4.0)	0.00E+00 (102.0)		
NOFLOW-CSS-87A	1	1.00E+00 ( 4.0)	0.00E+00 (102.0)		
FLOW-RHR-83	3	1.00E+00 ( 4.0)	0.00E+00 (102.0)		
SCSF0688-DENER	10	1.00E+00 ( 4.0)	0.00E+00 (102.0)		
SCSF06AA-DENER	3	1.00E+00 ( 4.0)	0.00E+00 (102.0)		
RA-NONE	66	1.00E+00 ( 4.0)	0.00E+00 (102.0)		
CONT-LEAK	148	7.50E-01 ( 8.0)	-4.24E-11 (106.0)	-2.69E-10	0.00E+00



SEQUENCE TL20  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	Y.05/TE.05*	Y.95/TE.95*
1EDC2DEP-FRP-27H	2	3.20E-03 ( 27.5)	9.0 ( 1.5)	NA	1.86
RA-8-27H	20	3.20E-03 ( 27.5)	9.0 ( 1.5)	NA	1.86
2C11C001B-BCO-LF	11	5.00E-04 ( 68.5)	5.8 ( 3.5)	NA	1.01
RHRB01BB-BCO-LF	1	5.00E-04 ( 68.5)	5.8 ( 3.5)	NA	1.01
2C11F001B-RCO-LF	7	1.20E-03 ( 50.0)	5.6 ( 5.0)	NA	0.94
2DG1PK1B-ROO-LFO	1	5.00E-04 ( 68.5)	4.7 ( 6.0)	NA	1.00
Q1	148	8.20E-03 ( 22.0)	3.9 ( 7.0)	NA	1.85
LAK14BRC-RCO-LFO	1	2.00E-02 ( 15.5)	3.7 ( 10.5)	NA	0.95
LAK18FRB-ROO-LFO	1	2.00E-02 ( 15.5)	3.7 ( 10.5)	NA	0.95
AP040X2-ROO-LFO	6	2.00E-02 ( 15.5)	3.7 ( 10.5)	NA	0.95
AP039X2-ROO-LFO	6	2.00E-02 ( 15.5)	3.7 ( 10.5)	NA	0.95
LAK93BRC-ROO-LFO	1	2.00E-02 ( 15.5)	3.7 ( 10.5)	NA	0.95
LAK9BRCB-ROO-LFO	1	2.00E-02 ( 15.5)	3.7 ( 10.5)	NA	0.95
RA-9-27H	8	4.00E-01 ( 9.0)	2.7 ( 14.0)	NA	0.97
CONT-LEAK	148	7.50E-01 ( 8.0)	2.6 ( 15.0)	NA	0.25
C2DG01F-PLG-1*	1	5.80E-04 ( 64.0)	2.4 ( 16.0)	NA	1.00
RHRF60BB-S-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF65BB-N-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF64BB-V-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF55BX-R-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF51BB-N-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
CSCF06BB-V-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF88BX-R-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF48BB-V-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF87BB-V-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
SCSF06BB-V-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF74BB-V-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
RHRF47BB-V-UUM	1	3.00E-04 ( 81.5)	2.2 ( 22.5)	NA	1.00
1EB2Y22X-BCO	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB36YB-BCO-LF	2	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB211YX-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB212YX-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB236B-BCO-LF	2	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
2WR01PA-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB233A-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB36Y1X-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
2WR01PB-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
SEV8001X-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB36XB-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
1EB1Y22X-BCO	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
2C11C001A-BCO-LF	1	7.20E-05 (100.0)	1.8 ( 35.0)	NA	1.12
RHR3019X-STR	1	1.10E-04 ( 91.0)	1.8 ( 42.0)	NA	1.00
CCB2DG1P-BCO-LF	1	8.40E-05 ( 92.5)	1.8 ( 43.5)	NA	1.00
1EB16212-BCO	1	8.40E-05 ( 92.5)	1.8 ( 43.5)	NA	1.00
SEVY03AX-ACX-LF1	3	8.40E-04 ( 55.0)	1.5 ( 45.0)	NA	1.00

SEVY03AX-A-UUM	1	3.00E-04	( 81.5)	1.5	( 47.5)	NA	1.00
CSCD300B-S-UUM	1	3.00E-04	( 81.5)	1.5	( 47.5)	NA	1.00
RHRH01BX-H-UUM	1	3.00E-04	( 81.5)	1.5	( 47.5)	NA	1.00
C2D601F-S-UUM	1	3.00E-04	( 81.5)	1.5	( 47.5)	NA	1.00
CSCD300B-PLG-LF	4	1.20E-03	( 50.0)	1.3	( 50.5)	NA	0.99
CSCD300A-PLG-LF	1	1.20E-03	( 50.0)	1.3	( 50.5)	NA	1.00
ZD601PK18CA-LFOO	1	3.00E-04	( 81.5)	1.1	( 52.5)	NA	1.00
ZD601PSC-000-LFO	1	3.00E-04	( 81.5)	1.1	( 52.5)	NA	1.00
DG2A-GEN-LF-FTR	2	1.90E-02	( 19.5)	1.1	( 54.5)	NA	0.98
DG0-GEN-LF-FTR	4	1.90E-02	( 19.5)	1.1	( 54.5)	NA	0.98
SEVY03CB-FMS-LF	1	5.40E-04	( 65.0)	1.1	( 56.0)	NA	1.00
LCSC002A-P-UUM	3	3.00E-03	( 32.5)	1.1	( 58.0)	NA	1.06
RHRC02BB-P-UUM	7	3.00E-03	( 32.5)	1.1	( 58.0)	NA	1.06
RHRC02AA-P-UUM	3	3.00E-03	( 32.5)	1.1	( 58.0)	NA	1.06
C00G01P-P-UUM	1	3.00E-03	( 32.5)	1.0	( 62.0)	NA	1.00
RHRC02BB-P-NDUUM	7	3.00E-03	( 32.5)	1.0	( 62.0)	NA	1.00
RHRC02AA-P-NDUUM	1	3.00E-03	( 32.5)	1.0	( 62.0)	NA	1.00
C2D601P-P-UUM	7	3.00E-03	( 32.5)	1.0	( 62.0)	NA	1.00
ZC11C001B-P-UUM	7	3.00E-03	( 32.5)	1.0	( 62.0)	NA	1.00
DG2A-G-UUM	1	6.00E-03	( 25.5)	0.8	( 65.5)	NA	1.05
DG0-G-UUM	3	6.00E-03	( 25.5)	0.8	( 65.5)	NA	1.05
SEVY03CB-F-UUM	1	5.00E-04	( 68.5)	0.8	( 67.0)	NA	1.00
ZWR02MB-STR-LF	1	7.20E-04	( 59.5)	0.7	( 70.0)	NA	1.00
ZWR02MA-STR-LF	1	7.20E-04	( 59.5)	0.7	( 70.0)	NA	1.00
EE-CSC0300B-PLG	1	7.20E-04	( 59.5)	0.7	( 70.0)	NA	1.00
EE-C2D601F-PLG	1	7.20E-04	( 59.5)	0.7	( 70.0)	NA	1.00
PSW01FBX-STX-LF	2	7.20E-04	( 59.5)	0.7	( 70.0)	NA	1.00
SUR-028-R	128	3.80E-04	( 72.0)	0.0	( 73.0)	NA	1.05
SUR-027-R	20	1.80E-02	( 21.0)	0.0	( 74.0)	NA	1.00
NWY01CA-FMS-CC	1	2.50E-03	( 40.0)	0.0	( 86.5)	NA	1.00
C00G01P-PMS-CC	1	2.50E-03	( 40.0)	0.0	( 86.5)	NA	1.00
ZC11C001B-B00-CC	7	2.50E-03	( 40.0)	0.0	( 86.5)	NA	1.00
ZC11C001A-PMS-LF	1	7.20E-04	( 59.5)	0.0	( 86.5)	NA	1.00
SEVY03CB-FMS-CC	7	2.50E-03	( 40.0)	0.0	( 86.5)	NA	1.00
DG2A-GEN-LF-FTS	4	2.50E-02	( 11.5)	0.0	( 86.5)	NA	1.00
ZWR01PB-PMS-FR	1	7.20E-04	( 59.5)	0.0	( 86.5)	NA	1.00
DG0-GEN-LF-FTS	6	2.50E-02	( 11.5)	0.0	( 86.5)	NA	1.00
RHRH01AX-HTX-LFB	11	6.20E-03	( 23.5)	0.0	( 86.5)	NA	1.00
ZWR01PA-PMS-FR	1	7.20E-04	( 59.5)	0.0	( 86.5)	NA	1.00
CSCF068B-VCC-LT	1	5.00E-04	( 68.5)	0.0	( 86.5)	NA	1.00
RHRF488B-V00-LF	1	5.00E-04	( 68.5)	0.0	( 86.5)	NA	1.00
RHRC02BB-PMS-LF	3	1.10E-03	( 53.0)	0.0	( 86.5)	NA	1.00
CRD1-REALIGN-OE	17	2.10E-03	( 45.5)	0.0	( 86.5)	NA	1.00
RHR01BB-B00-CC	7	2.50E-03	( 40.0)	0.0	( 86.5)	NA	1.00
RHR01AA-B00-CC	1	2.50E-03	( 40.0)	0.0	( 86.5)	NA	1.00
C2D601P-PMS LF	3	1.10E-03	( 53.0)	0.0	( 86.5)	NA	1.00
C2D601P-PMS-CC	7	2.50E-03	( 40.0)	0.0	( 86.5)	NA	1.00
RA-2-11-27H	2	1.60E-03	( 48.0)	0.0	( 86.5)	NA	1.00
RHRH01BX-HTX-LFB	13	6.20E-03	( 23.5)	0.0	( 86.5)	NA	1.00
RA-2-1-27H	1	2.10E-03	( 45.5)	0.0	( 86.5)	NA	1.00
ZC11C001B-FMS-LF	11	1.10E-03	( 53.0)	0.0	( 86.5)	NA	1.00
RA-1-1-27H	59	2.10E-03	( 45.5)	0.0	( 86.5)	NA	1.00

0.0 ( 06.5)

OPFAIL-VENT-2H	1	2.10E+03	( 45.5)
NOFLOW-SPC-BSX	1	1.00E+00	( 4.0)
NOFLOW-RHR-B1	1	1.00E+00	( 4.0)
NOFLOW-CSS-B7A	1	1.00E+00	( 4.0)
FLOW-RHR-B3	3	1.00E+00	( 4.0)
EE-MJP-PSW-BC-R	53	3.30E-01	( 10.0)
SCSF06BB-DENER	10	1.00E+00	( 4.0)
SCSF06AA-DENER	3	1.00E+00	( 4.0)
RA-NONE	66	1.00E+00	( 4.0)

SEQUENCE TL20

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT PDSA2-TL-SEQ2A WITH TOP EVENT FREQUENCY 4.24E-11

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	2	7	5.67E-12	0.13382	AP039X2-ROO-LFO	*/CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
3					Q1	* RA-8-27H	* SUR-027-R	*	*
4	1	7	5.67E-12	0.26764	AP040X2-ROO-LFO	*/CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	*
5					Q1	* RA-8-27H	* SUR-027-R	*	*
6	3	7	4.31E-12	0.36935	AP040X2-ROO-LFO	*/CONT-LEAK	* DGO-GEN-LF-FTR	* IE-LOSP	*
7					Q1	* RA-8-27H	* SUR-027-R	*	*
8	4	7	4.31E-12	0.47105	AP039X2-ROO-LFO	*/CONT-LEAK	* DGO-GEN-LF-FTR	* IE-LOSP	*
9					Q1	* RA-8-27H	* SUR-027-R	*	*
10	5	8	2.83E-12	0.53796	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	*
11					Q1	* RA-8-27H	* RA-9-27H	* SUR-027-R	*
12	7	8	2.15E-12	0.58881	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* IE-LOSP	*
13					Q1	* RA-8-27H	* RA-9-27H	* SUR-027-R	*
14	6	8	2.15E-12	0.63967	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* IE-LOSP	*
15					Q1	* RA-8-27H	* RA-9-27H	* SUR-027-R	*
16	8	8	1.64E-12	0.67831	/CONT-LEAK	* DGO-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP	*
17					Q1	* RA-8-27H	* RA-9-27H	* SUR-027-R	*
18	10	7	1.41E-12	0.71150	AP040X2-ROO-LFO	*/CONT-LEAK	* IE-LOSP	* Q1	*
19					RA-8-27H	* RHRH01AX-HTX-LFB	* SUR-027-R	*	*
20	9	7	1.41E-12	0.74469	AP039X2-ROO-LFO	*/CONT-LEAK	* IE-LOSP	* Q1	*
21					RA-8-27H	* RHRH01AX-HTX-LFB	* SUR-027-R	*	*
22	12	7	1.36E-12	0.77681	AP040X2-ROO-LFO	*/CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
23					Q1	* RA-8-27H	* SUR-027-R	*	*
24	11	7	1.36E-12	0.80892	AP039X2-ROO-LFO	*/CONT-LEAK	* DGO-G-UUM	* IE-LOSP	*
25					Q1	* RA-8-27H	* SUR-027-R	*	*
26	13	8	7.03E-13	0.82552	/CONT-LEAK	* DG2A-GEN-LF-FTS	* IE-LOSP	* Q1	*
27					RA-8-27H	* RA-9-27H	* RHRH01AX-HTX-LFB	* SUR-027-R	*
28	14	8	7.03E-13	0.84211	/CONT-LEAK	* DGO-GEN-LF-FTS	* IE-LOSP	* Q1	*
29					RA-8-27H	* RA-9-27H	* RHRH01BX-HTX-LFB	* SUR-027-R	*
30	15	8	6.80E-13	0.85817	/CONT-LEAK	* DGO-G-UUM	* DG2A-GEN-LF-FTS	* IE-LOSP	*
31					Q1	* RA-8-27H	* RA-9-27H	* SUR-027-R	*
32	16	8	6.80E-13	0.87423	/CONT-LEAK	* DGO-GEN-LF-FTS	* DG2A-G-UUM	* IE-LOSP	*
33					Q1	* RA-8-27H	* RA-9-27H	* SUR-027-R	*
34	20	7	6.80E-13	0.89029	AP039X2-ROO-LFO	*/CONT-LEAK	* IE-LOSP	* LCSC002A-P-UUM	*
35					Q1	* RA-8-27H	* SUR-027-R	*	*
36	18	7	6.80E-13	0.90635	AP040X2-ROO-LFO	*/CONT-LEAK	* IE-LOSP	* LCSC002A-P-UUM	*
37					Q1	* RA-8-27H	* SUR-027-R	*	*
38	19	8	6.80E-13	0.92240	AP039X2-ROO-LFO	*/CONT-LEAK	* IE-LOSP	* Q1	*
39					RA-8-27H	* RHRH02AA-P-UUM	* SCSF06AA-DENER	* SUR-027-R	*
40	17	8	6.80E-13	0.93846	AP040X2-ROO-LFO	*/CONT-LEAK	* IE-LOSP	* Q1	*
41					RA-8-27H	* RHRH02AA-P-UUM	* SCSF06AA-DENER	* SUR-027-R	*
42	23	6	2.80E-13	0.94508	1E82Y22X-BCD	*/CONT-LEAK	* IE-T101	* Q1	*
43					RA-NONE	* SUR-028-R	*	*	*
44	24	6	2.80E-13	0.95171	1E8212YX-BCD-LF	*/CONT-LEAK	* IE-T101	* Q1	*
45					RA-NONE	* SUR-028-R	*	*	*

46	21	6	2.80E-13	0.95833	1E8211YX-BCO-LF	* /CONT-LEAK	* IE-T102	* Q1	*
47					RA-NONE	* SUR-028-R	*		*
48	22	6	2.80E-13	0.96495	1E81Y22X-BCO	* /CONT-LEAK	* IE-T102	* Q1	*
49					RA-NONE	* SUR-028-R	*		*
50	25	7	7.24E-14	0.96666	2C11C001B-P-UUM	* /CONT-LEAK	* IE-T101	* Q1	*
51					RA-NONE	* RHRH01BX-HTX-LFB	* SUR-028-R	*	*
52	26	7	6.04E-14	0.96808	2C11C001B-B00-CC	* /CONT-LEAK	* IE-T101	* Q1	*
53					RA-NONE	* RHRH01BX-HTX-LFB	* SUR-028-R	*	*
54	27	7	5.40E-14	0.96936	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* LAK18BRB-ROO-LFO	*
55					Q1	* RA-1-1-27H	* SUR-028-R	*	*
56	28	7	5.40E-14	0.97063	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* LAK9BRCB-ROO-LFO	*
57					Q1	* RA-1-1-27H	* SUR-028-R	*	*
58	29	7	5.07E-14	0.97183	/CONT-LEAK	* CRD1-REALIGN-OE	* IE-T101	* Q1	*
59					RA-NONE	* RHRH01BX-HTX-LFB	* SUR-028-R	*	*
60	30	7	5.07E-14	0.97303	/CONT-LEAK	* CRD1-REALIGN-OE	* IE-T102	* Q1	*
61					RA-NONE	* RHRH01AX-HTX-LFB	* SUR-028-R	*	*
62	31	9	4.11E-14	0.97400	/CONT-LEAK	* EE-MDP-PSW-BC-R	* IE-T101	* LAK14BRC-RCD-LFO	*
63					NOFLOW-CSS-B7A	* NOFLOW-SPC-B5X	* Q1	* RA-2-11-27H	*
64					SUR-028-R	*			*
65	32	8	4.11E-14	0.97497	/CONT-LEAK	* EE-MDP-PSW-BC-R	* FLOW-RHR-B3	* IE-T101	*
66					LAK93BRC-ROO-LFO	* Q1	* RA-2-11-27H	* SUR-028-R	*
67	34	7	3.51E-14	0.97580	2C11C001B-P-UUM	* C2DG01P-P-UUM	* /CONT-LEAK	* IE-T101	*
68					Q1	* RA-NONE	* SUR-028-R	*	*
69	33	8	3.51E-14	0.97663	2C11C001B-P-UUM	* /CONT-LEAK	* IE-T101	* Q1	*
70					RA-NONE	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-028-R	*
71	35	7	3.51E-14	0.97745	2C11C001B-P-UUM	* /CONT-LEAK	* IE-T101	* Q1	*
72					RA-NONE	* RHRC02BB-P-NDUUM	* SUR-028-R	*	*
73	41	7	2.92E-14	0.97814	2C11C001B-B00-CC	* C2DG01P-P-UUM	* /CONT-LEAK	* IE-T101	*
74					Q1	* RA-NONE	* SUR-028-R	*	*
75	40	7	2.92E-14	0.97883	2C11C001B-P-UUM	* C2DG01P-PMS-CC	* /CONT-LEAK	* IE-T101	*
76					Q1	* RA-NONE	* SUR-028-R	*	*
77	39	8	2.92E-14	0.97952	2C11C001B-B00-CC	* /CONT-LEAK	* IE-T101	* Q1	*
78					RA-NONE	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-028-R	*
79	38	7	2.92E-14	0.98021	2C11C001B-B00-CC	* /CONT-LEAK	* IE-T101	* Q1	*
80					RA-NONE	* RHRC02BB-P-NDUUM	* SUR-028-R	*	*
81	37	7	2.92E-14	0.98090	2C11C001B-P-UUM	* /CONT-LEAK	* IE-T101	* Q1	*
82					RA-NONE	* SEVY03CB-FMS-CC	* SUR-028-R	*	*
83	36	7	2.92E-14	0.98159	2C11C001B-P-UUM	* /CONT-LEAK	* IE-T101	* Q1	*
84					RA-NONE	* RHRB01BB-B00-CC	* SUR-028-R	*	*
85	46	7	2.90E-14	0.98228	2C11F001B-RCO-LF	* /CONT-LEAK	* IE-T101	* Q1	*
86					RA-NONE	* RHRH01BX-HTX-LFB	* SUR-028-R	*	*
87	42	7	2.66E-14	0.98290	2C11C001B-PMS-LF	* /CONT-LEAK	* IE-T101	* Q1	*
88					RA-NONE	* RHRH01BX-HTX-LFB	* SUR-028-R	*	*
89	50	7	2.45E-14	0.98348	C0DG01P-P-UUM	* /CONT-LEAK	* CRD1-REALIGN-OE	* IE-T102	*
90					Q1	* RA-NONE	* SUR-028-R	*	*
91	49	7	2.45E-14	0.98406	C2DG01P-P-UUM	* /CONT-LEAK	* CRD1-REALIGN-OE	* IE-T101	*
92					Q1	* RA-NONE	* SUR-028-R	*	*
93	48	8	2.45E-14	0.98464	/CONT-LEAK	* CRD1-REALIGN-OE	* IE-T101	* Q1	*
94					RA-NONE	* RHRC02BB-P-UUM	* SCSF06BB-DENER	* SUR-028-R	*
95	47	7	2.45E-14	0.98522	/CONT-LEAK	* CRD1-REALIGN-OE	* IE-T102	* Q1	*
96					RA-NONE	* RHRC02AA-P-NDUUM	* SUR-028-R	*	*

TEMPAC RUN TIME IN CPU SECONDS 248.23

97	45	8	2.45E-14	0.98580	/CONT-LEAK	* CR01-REALIGN-OE	* IE-T102	* 01
98	44	7	2.45E-14	0.98638	RA-NONE	* RHRC02AA-P-UJM	* SC5F06AA-DEMER	* SUR-028-R
99	44	7	2.45E-14	0.98638	/CONT-LEAK	* CR01-REALIGN-OE	* IE-T102	* LCSC002A-P-UJM
100	43	7	2.45E-14	0.98696	01	* RA-NONE	* SUR-028-R	
101	43	7	2.45E-14	0.98696	/CONT-LEAK	* CR01-REALIGN-OE	* IE-T101	* 01
102	53	7	2.43E-14	0.98753	RA-NONE	* RHRC0288-P-NDUJM	* SUR-028-R	
103	53	7	2.43E-14	0.98753	2C11C0018-800-CC	* C20G01P-PMS-CC	* /CONT-LEAK	* IE-T101
104	52	7	2.43E-14	0.98811	01	* RA-NONE	* SUR-028-R	
105	52	7	2.43E-14	0.98811	2C11C0018-800-CC	* /CONT-LEAK	* IE-T101	* 01
106	51	7	2.43E-14	0.98868	RA-NONE	* RH950188-800-CC	* SUR-028-R	
107	51	7	2.43E-14	0.98868	2C11C0018-800-CC	* /CONT-LEAK	* IE-T101	* 01
108	58	7	2.04E-14	0.98917	RA-NONE	* SEVY03CB-FMS-CC	* SUR-028-R	
109	57	7	2.04E-14	0.98965	2C0G01P-PMS-CC	* /CONT-LEAK	* CR01-REALIGN-OE	* IE-T101
110	57	7	2.04E-14	0.98965	01	* RA-NONE	* SUR-028-R	
111	56	7	2.04E-14	0.99013	/CONT-LEAK	* CR01-REALIGN-OE	* IE-T102	* RWY101CA-FMS-CC
112	56	7	2.04E-14	0.99013	01	* RA-NONE	* SUR-028-R	
113	55	7	2.04E-14	0.99061	/CONT-LEAK	* CR01-REALIGN-OE	* IE-T101	* 01
114	55	7	2.04E-14	0.99061	RA-NONE	* RH9501AA-800-CC	* SUR-028-R	
115	59	7	2.04E-14	0.99110	/CONT-LEAK	* CR01-REALIGN-OE	* IE-T101	* 01
116	59	7	2.04E-14	0.99110	RA-NONE	* RH950188-800-CC	* SUR-028-R	
117	59	7	2.04E-14	0.99110	2C0G01P-PMS-CC	* /CONT-LEAK	* CR01-REALIGN-OE	* IE-T102
118	59	7	2.04E-14	0.99158	01	* RA-NONE	* SUR-028-R	
119	60	7	1.74E-14	0.99199	/CONT-LEAK	* CR01-REALIGN-OE	* IE-T101	* 01
120	61	7	1.57E-14	0.99238	RA-NONE	* SEVY03CB-FMS-CC	* SUR-028-R	
121	61	7	1.57E-14	0.99238	2C11C0018-PMS-LF	* /CONT-LEAK	* IE-T102	* 01
122	68	7	1.40E-14	0.99272	RA-NONE	* RH9501AX-HTX-LFB	* SUR-028-R	
123	67	8	1.40E-14	0.99305	/CONT-LEAK	* EE-MCP-PSM-SC-R	* IE-T101	* 01
124	67	8	1.40E-14	0.99305	RA-NONE	* RH95015X-R1X-LFB	* SUR-028-R	
125	66	7	1.40E-14	0.99338	2C11C0018-RCC-LF	* C20G01P-P-06JM	* /CONT-LEAK	* IE-T101
126	66	7	1.40E-14	0.99338	01	* RA-NONE	* SUR-028-R	
127	66	7	1.40E-14	0.99368	2C11C0018-RCC-LF	* /CONT-LEAK	* IE-T101	* 01
128	64	7	1.29E-14	0.99399	RA-NONE	* RHRC0288-P-UJM	* SC5F0688-DEMER	* SUR-028-R
129	64	7	1.29E-14	0.99399	2C11C0018-RCC-LF	* /CONT-LEAK	* IE-T101	* 01
130	62	7	1.29E-14	0.99429	RA-NONE	* RHRC0288-P-NDUJM	* SUR-028-R	
131	62	7	1.29E-14	0.99429	2C11C0018-PMS-LF	* C20G01P-P-UJM	* /CONT-LEAK	* IE-T101
132	65	7	1.21E-14	0.99457	01	* RA-NONE	* SUR-028-R	
133	65	7	1.21E-14	0.99457	2C11C0018-800-LF	* /CONT-LEAK	* IE-T101	* 01
134	74	7	1.17E-14	0.99485	RA-NONE	* RH950188-800-CC	* SUR-028-R	
135	74	7	1.17E-14	0.99485	2C11C0018-RCC-LF	* C20G01P-PMS-CC	* /CONT-LEAK	* IE-T101
136	70	7	1.07E-14	0.99565	01	* RA-NONE	* SUR-028-R	
137	70	7	1.07E-14	0.99565	2C11C0018-RCC-LF	* /CONT-LEAK	* IE-T101	* 01
138	70	7	1.07E-14	0.99565	RA-NONE	* SEVY03CB-FMS-CC	* SUR-028-R	
139	70	7	1.07E-14	0.99565	2C11C0018-RCC-LF	* /CONT-LEAK	* IE-T101	* 01
140	70	7	1.07E-14	0.99565	RA-NONE	* RH950188-800-CC	* SUR-028-R	
141	70	7	1.07E-14	0.99565	2C11C0018-PMS-LF	* /CONT-LEAK	* IE-T101	* 01
142	70	7	1.07E-14	0.99565	RA-NONE	* RH950188-800-CC	* SUR-028-R	
143	70	7	1.07E-14	0.99565	2C11C0018-RCC-LF	* /CONT-LEAK	* IE-T101	* 01
144	70	7	1.07E-14	0.99565	RA-NONE	* RH950188-800-CC	* SUR-028-R	
145	70	7	1.07E-14	0.99565	2C11C0018-PMS-LF	* /CONT-LEAK	* IE-T101	* 01
146	70	7	1.07E-14	0.99565	RA-NONE	* RH950188-800-CC	* SUR-028-R	

SEQUENCE TL36

TOP EVENT DPDSA1-TL-SEQ38A CONTAINS 7 EVENTS IN 1 CUT SETS

THE FREQUENCY OF TOP EVENT DPDSA1-TL-SEQ38A IS 1.86E-11

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DPDSA1-TL-SEQ38A

N	300
MEAN	1.25E-11
STD DEV	5.35E-11
LOWER 5%	0.00E+00
LOWER 25%	5.49E-15
MEDIAN	5.96E-13
UPPER 25%	4.47E-12
UPPER 5%	4.61E-11

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS  
= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE 1136  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
CONF-LEAK	1	7.50E-01 ( 2.0)	1.86E-11 ( 3.5)	0.00E+00	4.61E-11
SUR-004-L	1	2.20E-03 ( 6.0)	1.86E-11 ( 3.5)	0.00E+00	4.61E-11
01	1	8.20E-03 ( 4.0)	1.86E-11 ( 3.5)	0.00E+00	4.61E-11
RA-NONE	1	1.00E+00 ( 1.0)	1.86E-11 ( 3.5)		
DGCOOL-PWS-CM	1	2.50E-03 ( 5.0)	1.86E-11 ( 3.5)	0.00E+00	4.61E-11
DGCOOL-BETA	1	1.10E-01 ( 3.0)	1.86E-11 ( 3.5)	0.00E+00	4.61E-11



SEQUENCE TL36  
 RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			INCREASE	(RANK)	LOWER 5% UPPER 5%
SLR-004-L	1	1.20E-03 ( 6.0)	8.44E-09 ( 1.0)	0.00E+00	3.63E-08
DGCOOL-PMS-OM	1	2.50E-03 ( 5.0)	7.42E-09 ( 2.0)	0.00E+00	2.87E-08
G1	1	8.20E-03 ( 4.0)	2.25E-09 ( 7)	0.00E+00	8.02E-09
DGCOOL-BETA	1	1.10E-01 ( 3.0)	1.51E-10 ( 4.0)	0.00E+00	4.96E-10
CCAT-LEAK	1	7.50E-01 ( 2.0)	6.20E-12 ( 5.0)	0.00E+00	1.26E-11
RA-NONE	1	1.00E+00 ( 1.0)	0.00E+00 ( 6.0)		

SEQUENCE TL36  
 UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK	(RANK)	V.05/TE.05*	V.95/TE.95*
CONT-LEAK	1	7.50E-01 ( 2.0)	4.1	( 1.0)	NA	0.99
DGCOOL-PMS-OM	1	2.50E-03 ( 5.0)	17.8	( 2.0)	NA	1.57
SUR-004-L	1	2.20E-03 ( 6.0)	3.0	( 3.0)	NA	1.73
DGCOOL-BETA	1	1.19E-01 ( 3.0)	6.8	( 4.0)	NA	1.28
03	1	8.20E-03 ( 4.0)	4.4	( 5.0)	NA	1.44
RA-NONE	1	1.00E+00 ( 1.0)				

SEQUENCE TL36

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT DPDSAT-TL-SEP... TOP EVENT FREQUENCY 1.86E-11

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	1.86E-11	1.00000	CONT-LEAK	* DGGCOL-BETA	* DGCOL-PMS-DM	* IE-T101
3					Q1	* RA-NONE	* SUR-004-L	

TEMAC RUN TIME IN CPU SECONDS 15.40

SEQUENCE 1L32

TOP EVENT DP05A2-TL-SE03BA CONTAINS 7 EVENTS IN 1 CUT SETS

THE FREQUENCY OF TOP EVENT DP05A2-TL-SE03BA IS 6.20E-12

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT DP05A2-TL-SE03BA

N	300
MEAN	2.71E-12
STD DEV	1.57E-11
LOWER 5%	0.00E+00
LOWER 25%	0.00E+00
MEDIAN	0.00E+00
UPPER 25%	0.00E+00
UPPER 5%	1.26E-11

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE, ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION =  $PD \times EV(J)$   
=  $TEF - TEF(EVALUATED WITH EV(J) = 0)$

2. FOR BASE EVENTS ONLY:

RISK INCREASE =  $PD \times$  RISK REDUCTION  
=  $PD \times (1 - EV(J))$   
=  $F(EVALUATED WITH EV(J) = 1) - TEF$

SEQUENCE TL30  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
RA-NONE	1	1.00E+00 ( 1.0)	6.20E-12 ( 3.0)	0.00E+00	1.26E-11
SUR-010-R	1	2.20E-03 ( 6.0)	6.20E-12 ( 3.0)	0.00E+00	1.26E-11
DGCOOL-PMS-CM	1	2.50E-03 ( 5.0)	6.20E-12 ( 3.0)	0.00E+00	1.26E-11
QT	1	8.20E-03 ( 4.0)	6.20E-12 ( 3.0)	0.00E+00	1.26E-11
DGCOOL-BETA	1	1.10E-01 ( 3.0)	6.20E-12 ( 3.0)	0.00E+00	1.26E-11
CONT-LEAK	1	7.50E-01 ( 2.0)	-1.86E-11 ( 6.0)	-4.61E-11	0.00E+00

SEQUENCE TL38  
 RIS. INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK		
				INCREASE	(RANK)	LOWER 5% UPPER 5%
SUR-010-R	1	2.20E-03	( 6.0)	2.81E-09	( 1.0)	0.00E+00 6.70E-09
DGCOOL-PMS-CM	1	2.50E-03	( 5.0)	2.47E-09	( 2.0)	0.00E+00 7.39E-09
Q1	1	8.20E-03	( 4.0)	7.50E-10	( 3.0)	0.00E+00 1.73E-09
DGCOOL-BETA	1	1.10E-01	( 3.0)	5.02E-11	( 4.0)	0.00E+00 8.55E-11
RA-NONE	1	1.00E+00	( 1.0)	0.00E+00	( 5.0)	
CONT-LEAK	1	7.50E-01	( 2.0)	-6.20E-12	( 6.0)	-1.26E-11 0.00E+00

SEQUENCE TL38

UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
CONT-LEAK	1	7.50E-01 ( 2.0)	69.6	( 1.0)	NA	1.21
SUR-010-R	1	7.20E-03 ( 3.0)	3.9	( 2.0)	NA	1.18
DGCOOL-PMS-CM	1	2.50E-05 ( 5.0)	2.1	( 3.0)	NA	1.47
Q1	1	8.20E-03 ( 4.0)	1.7	( 4.0)	NA	1.13
DGCOOL-BETA	1	1.10E-01 ( 3.0)	1.6	( 5.0)	NA	0.83
RA-NONE	1	1.00E+00 ( 1.0)				

SEQUENCE TL30

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
FOR TOP EVENT DP0542-TL-SEC3BA WITH TOP EVENT FREQUENCY 6.20E-12

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

2	1	7	6.20E-12	1.00000	/CONT-LEAK	+	DGCOOL-BETA	+	DGCOOL-PMS-OM	+	3E-1101
3					QY	+	RA-NONE	+	SUR-010-E		

TEMAC RUN TIME IN CPU SECONDS 15.30



SEQUENCE 1LS9

TOP EVENT PDS-TL-SEQ3E    CONTAINS    125 EVENTS IN    716 CUT SETS  
THE FREQUENCY OF TOP EVENT PDS-TL-SEQ3E    IS    3.19E-08

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT PDS-TL-SEQ3E

N	300
MEAN	5.90E-08
STD DEV	3.51E-07
LOWER 5%	7.84E-10
LOWER 25%	3.26E-09
MEDIAN	9.24E-09
UPPER 25%	2.94E-08
UPPER 5%	1.72E-07

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD \* EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD \* RISK REDUCTION  
= PD \* (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE 1159  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	DCCUR	PROB (PANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
Q1	710	8.20E-03 ( 33.0)	3.19E-08 ( 1.03)	7.84E-10	1.72E-07
DGCDKL-PMS-OM	4	2.50E-03 ( 58.5)	1.70E-08 ( 2.5)	1.43E-10	6.41E-08
DGCDKL-BETA	4	1.10E-01 ( 11.0)	1.70E-08 ( 2.5)	1.43E-10	6.41E-08
RA-8-BH	226	2.79E-02 ( 12.0)	1.32E-08 ( 4.0)	2.23E-10	8.34E-08
RA-NONE	3	1.00E+00 ( 1.5)	1.12E-08 ( 5.0)		
RA-8-10H	483	2.00E-02 ( 22.5)	7.47E-09 ( 6.0)	2.40E-11	4.66E-08
RA-9-2H	472	8.70E-01 ( 3.3)	7.32E-09 ( 7.0)	2.23E-11	4.61E-08
DGD-GEN-LF-FTS	201	2.50E-02 ( 14.5)	4.68E-09 ( 8.0)	3.17E-11	3.27E-08
RA-9-BH	215	6.00E-01 ( 4.0)	4.20E-09 ( 9.0)	2.29E-11	3.49E-08
DGD-GEN-LF-FTR	201	1.90E-02 ( 30.0)	3.72E-09 ( 10.0)	5.79E-12	1.99E-08
EE-MDC-IAS-AB-R	1	3.30E-01 ( 9.0)	3.72E-09 ( 12.0)		
EE-MDC-IAS-CB-R	1	3.30E-01 ( 9.0)	3.72E-09 ( 12.0)		
EE-MDP-PSM-BC-R	1	3.30E-01 ( 9.0)	3.72E-09 ( 12.0)		
DG2A-GEN-LF-FTS	156	2.50E-02 ( 14.5)	3.02E-09 ( 14.0)	2.40E-11	2.22E-08
DG2B-GEN-LF-FTS	158	2.50E-02 ( 14.5)	3.01E-09 ( 15.0)	2.41E-11	2.23E-08
DG-FTS-BETA	2	1.20E-02 ( 32.0)	2.90E-09 ( 17.0)	3.65E-11	1.36E-08
DGX-GEN-EM-FTS	2	2.50E-02 ( 14.5)	2.90E-09 ( 17.0)	3.65E-11	1.36E-08
RA-15-8H	2	4.50E-01 ( 6.0)	2.90E-09 ( 17.0)	3.65E-11	1.36E-08
DG2A-GEN-LF-FTR	156	1.90E-02 ( 30.0)	2.40E-09 ( 19.0)	4.61E-12	1.88E-08
DG2B-GEN-LF-FTR	158	1.90E-02 ( 30.0)	2.40E-09 ( 20.0)	4.68E-12	1.89E-08
AP04082-K00-LFO	84	2.00E-02 ( 22.5)	2.11E-09 ( 21.0)	4.68E-12	1.16E-08
AP039K2-R00-LFO	82	2.00E-02 ( 22.5)	2.10E-09 ( 22.0)	4.64E-12	1.16E-08
1E4327NK-R00-LFO	80	2.00E-02 ( 22.5)	2.09E-09 ( 23.5)	4.67E-12	1.15E-08
1E4327NY-R00-LFO	80	2.00E-02 ( 22.5)	2.09E-09 ( 23.5)	4.67E-12	1.15E-08
DGD-G-UUM	32	6.00E-03 ( 35.0)	7.25E-10 ( 25.0)	5.51E-12	5.73E-09
DGD-GER-CC-FTS	40	3.70E-03 ( 38.0)	4.45E-10 ( 26.0)	1.14E-12	2.84E-09
DG2B-G-UUM	20	6.00E-03 ( 35.0)	3.61E-10 ( 27.5)	3.19E-12	1.69E-09
DG2A-G-UUM	20	6.00E-03 ( 35.0)	3.61E-10 ( 27.5)	3.19E-12	1.69E-09
DGD-GEN-CC-FTR	40	2.80E-03 ( 46.0)	3.51E-10 ( 29.0)	7.88E-13	2.49E-09
LCS002A-P-UUM	24	3.00E-03 ( 42.0)	2.81E-10 ( 30.0)	4.08E-13	1.72E-09
DG2A-GEN-CC-FTS	28	3.70E-03 ( 38.0)	2.65E-10 ( 31.5)	8.47E-13	1.92E-09
DG2B-GEN-CC-FTR	28	3.70E-03 ( 38.0)	2.65E-10 ( 31.5)	8.47E-13	1.92E-09
CO0G01P-P-UUM	12	3.00E-03 ( 42.0)	2.17E-10 ( 33.0)	4.56E-13	5.40E-10
DG2B-GEN-CC-FTR	28	2.80E-03 ( 46.0)	2.08E-10 ( 34.5)	5.25E-13	8.34E-10
DG2A-GEN-CC-FTR	28	2.80E-03 ( 46.0)	2.08E-10 ( 34.5)	5.25E-13	8.34E-10
CO0G01P-PMS-CC	12	2.50E-03 ( 58.5)	1.81E-10 ( 38.5)	3.14E-13	6.95E-10
1E8233A-BCC-AS	12	2.50E-03 ( 58.5)	1.81E-10 ( 38.5)	3.14E-13	6.95E-10
DOV-M00-C0M-CC	12	2.50E-03 ( 58.5)	1.81E-10 ( 38.5)	3.14E-13	6.95E-10
1E8412A-BCC-CC	12	2.50E-03 ( 58.5)	1.81E-10 ( 38.5)	3.14E-13	6.95E-10
1E8413A-B00-CC	12	2.50E-03 ( 58.5)	1.81E-10 ( 38.5)	3.14E-13	6.95E-10
DG0V01CA-PMS-CC	12	2.50E-03 ( 58.5)	1.81E-10 ( 38.5)	3.14E-13	6.95E-10
C2DG01P-P-UUM	8	3.00E-03 ( 42.0)	1.47E-10 ( 43.0)	3.28E-13	4.13E-10
HCS001C-F-UUM	8	3.00E-03 ( 42.0)	1.47E-10 ( 43.0)	3.28E-13	4.13E-10
CSE002-P-UUM	8	3.00E-03 ( 42.0)	1.47E-10 ( 43.0)	3.28E-13	4.13E-10
C2DG01P-PMS-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.69E-10

1E84258-8CC-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
DAV-MOD-COM-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
HCSC001C-PMS-CS	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
1E84228-8CC-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
1E84238-800-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
DHV-MOD-COM-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
SMVY02CC-FMS-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
1E84348-8CC-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
1E8433C-800-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
DGHV01CC-FMS-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
SEVY03CB-FMS-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
CSCC002-PMS-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
0G2V03CB-FMS-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
1E8432C-8CC-CC	8	2.50E-03 ( 58.5)	1.23E-10 ( 52.0)	2.15E-13	5.89E-10
CO0G01P-PMS-LF	16	1.10E-03 ( 73.5)	1.17E-10 ( 60.0)	3.00E-13	7.62E-10
DG0V01CA-RUM-0	12	1.40E-03 ( 71.0)	1.01E-10 ( 61.0)	1.75E-13	3.93E-10
RA-9-10H	7	5.50E-01 ( 5.0)	7.30E-11 ( 62.0)	1.10E-13	3.79E-10
HCSC001C-PMS-LF	8	1.10E-03 ( 73.5)	5.40E-11 ( 64.0)	1.69E-13	2.26E-10
CSCC002-PMS-LF	8	1.10E-03 ( 73.5)	5.40E-11 ( 64.0)	1.69E-13	2.26E-10
C2V001P-PMS-LF	8	1.10E-03 ( 73.5)	5.40E-11 ( 64.0)	1.69E-13	2.26E-10
OPFALSCDS-0E-DM	4	3.40E-01 ( 7.0)	4.68E-11 ( 67.0)	5.76E-15	3.36E-10
RA-1-1-10H	4	2.10E-03 ( 70.0)	4.68E-11 ( 67.0)	5.76E-15	3.36E-10
LAK10RCA-ROO-LFO	4	2.00E-02 ( 22.5)	4.68E-11 ( 67.0)	5.76E-15	3.36E-10
z-c-C2D001F-PLG	8	7.20E-04 ( 79.0)	3.53E-11 ( 69.5)	9.24E-14	1.89E-10
EE-C00G01F-PLG	1	2.10E-04 (120.0)	2.82E-11 ( 71.0)	9.24E-14	1.89E-10
RLOSP	6	7.20E-04 ( 79.0)	2.70E-11 ( 72.0)	7.09E-14	1.49E-10
EE-CSCD300-PLG	2	2.00E-02 ( 22.5)	2.34E-11 ( 73.5)	2.88E-15	1.68E-10
HACTK9-ROO-LFO	2	2.00E-02 ( 22.5)	2.34E-11 ( 73.5)	2.88E-15	1.68E-10
HACTK3-ROO-LFO	2	2.00E-02 ( 22.5)	2.34E-11 ( 73.5)	2.88E-15	1.68E-10
SEVY03AX-ACK-LFI	4	8.40E-04 ( 76.5)	2.18E-11 ( 75.5)	4.58E-14	1.45E-10
SMVY02AX-ACK-LFI	4	8.40E-04 ( 76.5)	2.18E-11 ( 75.5)	4.58E-14	1.45E-10
C2D001F-PLG-LF	4	5.80E-04 ( 84.0)	1.50E-11 ( 80.0)	3.06E-14	6.95E-11
DG0V01FX-KLM-LFB	4	5.80E-04 ( 84.0)	1.50E-11 ( 80.0)	3.06E-14	6.95E-11
CO0G01F-PLG-LF	4	5.80E-04 ( 84.0)	1.50E-11 ( 80.0)	3.06E-14	6.95E-11
1EK18ARC-ROO-LFO	4	5.80E-04 ( 84.0)	1.50E-11 ( 80.0)	3.06E-14	6.95E-11
DGHV01FX-KLM-LFB	4	5.80E-04 ( 84.0)	1.50E-11 ( 80.0)	3.06E-14	6.95E-11
CSCD300-PLG-LF	4	5.80E-04 ( 84.0)	1.50E-11 ( 80.0)	3.06E-14	6.95E-11
0G2V02FX-KLM-LFB	4	5.80E-04 ( 84.0)	1.50E-11 ( 80.0)	3.06E-14	6.95E-11
SMVY02CC-FMS-LF	4	5.40E-04 ( 90.0)	1.40E-11 ( 86.0)	2.95E-14	8.19E-11
SEVY03CB-FMS-LF	4	5.40E-04 ( 90.0)	1.40E-11 ( 86.0)	2.95E-14	8.19E-11
DG0V01CA-FMS-LF	4	5.40E-04 ( 90.0)	1.40E-11 ( 86.0)	2.95E-14	8.19E-11
DGHV01CC-FMS-LF	4	5.40E-04 ( 90.0)	1.40E-11 ( 86.0)	2.95E-14	8.19E-11
DG2V03CB-FMS-LF	4	5.40E-04 ( 90.0)	1.40E-11 ( 86.0)	2.95E-14	8.19E-11
SMVY02CC-F-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
SEVY03CB-F-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
DG0V03YA-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
DG0V02YA-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
1E84238-800-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
DG0V01YA-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
DG0V01CA-F-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
HCSP01SC-VCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.91E-14	5.60E-11
HCSP004C-VCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.91E-14	5.60E-11

1EB422B-BCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
1EB234B-BCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
EE-CST-LVL	4	1.00E+00 ( 1.5)	1.30E-11 (102.5)		
2DG1PK1B-ROO-LFO	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.79E-14	5.50E-11
DGHV03YC-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
DGHV02YC-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
1EB413A-BOO-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
DGHV01YC-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
1EB433C-BOO-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
DGHV01CC-F-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
DG2V11YB-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
DG2V10YB-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
DG2V09YB-M-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
1EB432C-BCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
1EB233A-BCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
DG2V03CB-F-UUM	4	5.00E-04 (106.0)	1.30E-11 (102.5)	1.20E-13	1.08E-10
CSC02K1B-ROO-LFO	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.79E-14	5.50E-11
1EB425B-BCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
1EB412A-BCC-LF	4	5.00E-04 (106.0)	1.30E-11 (102.5)	2.99E-14	5.31E-11
D0VB202X-BCO-LF	4	2.00E-02 ( 22.5)	1.04E-11 (118.5)	1.37E-15	2.19E-10
D0VB201X-BCO-LF	4	2.00E-02 ( 22.5)	1.04E-11 (118.5)	1.37E-15	2.19E-10
D0VB102X-BCO-LF	4	2.00E-02 ( 22.5)	1.04E-11 (118.5)	1.37E-15	2.19E-10
D0VB101X-BCO-LF	4	2.00E-02 ( 22.5)	1.04E-11 (118.5)	1.37E-15	2.19E-10

SEQ..MCE T1S9

RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	RANK	RISK		
				INCREASE	(RANK)	LOWER 5% UPPER 5%
DGCOOL-PMS-OM	4	2.50E-03	( 58.5)	6.79E-06	( 1.0)	4.71E-07 2.45E-05
Q1	716	8.20E-03	( 33.0)	3.85E-06	( 2.0)	2.39E-07 1.90E-05
RA-B-8H	226	2.70E-02	( 12.0)	4.75E-07	( 3.0)	1.42E-08 1.80E-06
RA-B-10H	483	2.80E-02	( 22.5)	3.66E-07	( 4.0)	1.99E-09 2.78E-06
DG-FTS-BETA	2	1.20E-02	( 32.0)	2.39E-07	( 5.0)	4.93E-09 9.28E-07
DG0-GEN-LF-FTR	201	1.90E-02	( 30.0)	1.92E-07	( 6.0)	3.30E-09 9.81E-07
DG0-GEN-LF-FTS	201	2.50E-02	( 14.5)	1.82E-07	( 7.0)	2.70E-09 9.10E-07
DGCOOL-BETA	4	1.10E-01	( 11.0)	1.7E-07	( 8.0)	1.89E-09 4.69E-07
RLOSP	1	2.10E-04	( 120.0)	1.34E-07	( 9.0)	1.82E-09 6.27E-07
DG0-GEN-CC-FTR	40	2.89E-03	( 46.0)	1.25E-07	( 10.0)	1.71E-09 7.50E-07
DG2A-GEN-LF-FTR	156	1.90E-02	( 30.0)	1.24E-07	( 11.0)	2.66E-09 6.13E-07
DG2B-GEN-LF-FTR	158	1.90E-02	( 30.0)	1.24E-07	( 12.0)	2.56E-09 6.05E-07
DG0-G-UUM	32	6.00E-03	( 35.0)	1.20E-07	( 13.0)	1.17E-09 7.21E-07
DG0-GEN-CC-FTS	40	3.70E-03	( 38.0)	1.20E-07	( 14.0)	1.49E-09 7.03E-07
DG2A-GEN-LF-FTS	156	2.50E-02	( 14.5)	1.18E-07	( 15.0)	2.29E-09 6.22E-07
DG2B-GEN-LF-FTS	158	2.50E-02	( 14.5)	1.17E-07	( 15.0)	2.15E-09 6.22E-07
DGK-GEN-2M-FTS	2	2.50E-02	( 14.5)	1.13E-07	( 17.0)	2.81E-09 5.02E-07
CGDG01P-PMS-LF	16	1.10E-03	( 73.5)	1.06E-07	( 18.0)	9.31E-10 6.85E-07
AP04DX2-R00-LFO	84	2.00E-02	( 22.5)	1.04E-07	( 19.0)	1.86E-09 6.14E-07
AP039K2-R00-LFO	92	2.00E-02	( 22.5)	1.03E-07	( 20.0)	1.85E-09 6.08E-07
1E4327NY-R00-LFO	80	2.00E-02	( 22.5)	1.02E-07	( 21.5)	1.80E-09 6.00E-07
1E4327NX-R00-LFO	80	2.00E-02	( 22.5)	9.33E-08	( 23.0)	8.17E-10 5.51E-07
LC5002A-P-UUM	24	3.00E-03	( 42.0)	7.41E-08	( 24.5)	1.20E-09 4.07E-07
DG2B-GEN-CC-FTR	28	2.80E-03	( 46.0)	7.41E-08	( 24.5)	1.20E-09 4.07E-07
DG2A-GEN-CC-FTR	28	2.80E-03	( 46.0)	7.22E-08	( 26.0)	7.31E-10 3.76E-07
DG0V01CA-RUM-0	12	1.40E-03	( 71.0)	7.21E-08	( 29.5)	7.36E-10 3.75E-07
CGDG01P-PMS-CC	12	2.50E-03	( 58.5)	7.21E-08	( 29.5)	7.36E-10 3.75E-07
1E8233A-BCC-AS	12	2.50E-03	( 58.5)	7.21E-08	( 29.5)	7.36E-10 3.75E-07
DG0V01CA-FMS-CC	12	2.50E-03	( 58.5)	7.21E-08	( 33.0)	7.37E-10 3.75E-07
1E8412A-BCC-FC	12	2.50E-03	( 58.5)	7.21E-08	( 34.5)	1.13E-09 4.26E-07
1E8413A-B00-CC	12	2.50E-03	( 58.5)	7.21E-08	( 34.5)	1.13E-09 4.26E-07
D0V-MG0-COM-CC	12	2.50E-03	( 58.5)	7.21E-08	( 36.5)	6.95E-10 3.75E-07
CGDG01P-P-UUM	12	3.00E-03	( 42.0)	7.20E-08	( 33.0)	7.37E-10 3.75E-07
DG2A-GEN-CC-FTS	28	3.70E-03	( 38.0)	7.13E-08	( 34.5)	1.13E-09 4.26E-07
DG2B-GEN-CC-FTS	28	3.70E-03	( 38.0)	7.13E-08	( 34.5)	1.13E-09 4.26E-07
DG2B-G-UUM	20	6.00E-03	( 35.0)	5.98E-08	( 36.5)	6.95E-10 3.75E-07
UG2A-G-UUM	20	6.00E-03	( 35.0)	5.98E-08	( 36.5)	6.95E-10 3.75E-07
EE-C0D0G01F-PLG	8	7.20E-04	( 79.0)	4.91E-08	( 38.5)	5.77E-10 2.80E-07
EE-C2D0G01F-PLG	8	7.20E-04	( 79.0)	4.91E-08	( 38.5)	5.77E-10 2.80E-07
HCSC001C-PMS-LF	8	1.10E-03	( 73.5)	4.90E-08	( 41.0)	5.77E-10 2.80E-07
CSCC002-PMS-LF	8	1.10E-03	( 73.5)	4.90E-08	( 41.0)	5.77E-10 2.80E-07
C2D0G01P-PMS-LF	8	1.10E-03	( 73.5)	4.90E-08	( 41.0)	5.77E-10 2.80E-07
C2D0G01P-PMS-CC	8	2.50E-03	( 58.5)	4.90E-08	( 50.0)	5.77E-10 2.80E-07
1E8425B-8CC-CC	8	2.50E-03	( 58.5)	4.90E-08	( 50.0)	5.77E-10 2.80E-07
1E8423B-800-CC	8	2.50E-03	( 58.5)	4.90E-08	( 50.0)	5.77E-10 2.80E-07

SMWV02CC-FMS-CC	6	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
HCS0001C-FMS-CS	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
1E8234B-BCC-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
SEVY03CB-FMS-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
1E8422B-BCC-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
DJAV-M00-C0M-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
DJAV-M00-C0M-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
1E8433C-B00-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
DGRV01CC-FMS-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
CSC0092-FMS-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
DG2V03CB-FMS-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
1E8432C-BCC-CC	8	2.50E-03 ( 58.5)	4.90E-08 ( 50.0)	5.77E-10	2.80E-07
C20G01P-P-UUM	8	3.00E-03 ( 42.0)	4.89E-08 ( 59.0)	5.77E-10	2.80E-07
HCS001C-P-UUM	8	3.00E-03 ( 42.0)	4.89E-08 ( 59.0)	5.77E-10	2.80E-07
LSC002-P-UUM	8	3.00E-03 ( 42.0)	4.89E-08 ( 59.0)	5.77E-10	2.80E-07
EE--CSC0300-PLG	6	7.20E-04 ( 79.0)	3.75E-08 ( 61.0)	4.79E-10	2.69E-07
SMWV02CC-F-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V03YA-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V02YA-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8423B-B00-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V01YA-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8234B-BCC-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V01CA-F-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8422B-BCC-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
HCSF015C-VCL-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
HCSF004C-VCC-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
SEVY03CB-F-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
Z0G1PK*8-R00-LFO	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V02YC-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8413A-B00-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V01YC-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8433C-B00-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V01CC-F-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG2V11YB-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8432C-BCC-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG2V10YB-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG0V03YC-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG2V0PYB-M-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8235A-BCC-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8412A-BCC-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
DG2V03CB-F-UUM	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
CSC02X18-R00-LFO	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
1E8625B-BCC-LF	4	5.00E-04 (106.0)	2.59E-08 ( 75.0)	2.70E-10	2.22E-07
SMWV02CC-FMS-LF	4	5.40E-04 ( 90.0)	2.59E-08 ( 91.0)	2.70E-10	2.22E-07
SEVY03CB-FMS-LF	4	5.40E-04 ( 90.0)	2.59E-08 ( 91.0)	2.70E-10	2.22E-07
DG0V01CA-FMS-LF	4	5.40E-04 ( 90.0)	2.59E-08 ( 91.0)	2.70E-10	2.22E-07
DG0V01CC-FMS-LF	4	5.40E-04 ( 90.0)	2.59E-08 ( 91.0)	2.70E-10	2.22E-07
DG2V03CB-FMS-LF	4	5.40E-04 ( 90.0)	2.59E-08 ( 91.0)	2.70E-10	2.22E-07
C20G01F-PLG-LF	4	5.80E-04 ( 84.0)	2.59E-08 ( 97.0)	2.70E-10	2.22E-07
DG0V01FA-KLN-LFB	4	5.80E-04 ( 84.0)	2.59E-08 ( 97.0)	2.70E-10	2.22E-07
C0C001F-PLG-LF	4	5.80E-04 ( 84.0)	2.59E-08 ( 97.0)	2.70E-10	2.22E-07
1E84B8C-R00-LFO	4	5.80E-04 ( 84.0)	2.59E-08 ( 97.0)	2.70E-10	2.22E-07

DGHV01FK-KLN-LFB	4	5.80E-04 ( 84.0)	2.59E-08 ( 97.0)	2.70E-10	2.22E-07
CSD300-PLG-LF	4	5.80E-04 ( 84.0)	2.59E-08 ( 97.0)	2.70E-10	2.22E-07
DG2V02FK-KLN-LFB	4	5.80E-04 ( 84.0)	2.59E-08 ( 97.0)	2.70E-10	2.22E-07
SWY02AX-ACX-LF1	4	8.40E-04 ( 76.5)	2.59E-08 (101.5)	2.70E-10	2.22E-07
SEVY03AX-ACX-LF1	4	8.40E-04 ( 76.5)	2.59E-08 (101.5)	2.70E-10	2.22E-07
RA-1-1-10H	4	2.10E-03 ( 70.0)	2.23E-08 (103.0)	8.22E-12	1.55E-07
EE-MDP-PSW-BC-R	1	3.30E-01 ( 9.0)	7.55E-09 (105.0)		
EE-MDC-1AS-CB-R	1	3.30E-01 ( 9.0)	7.55E-09 (105.0)		
EE-MDC-1AS-AB-R	1	3.30E-01 ( 9.0)	7.55E-09 (105.0)		
RA-15-8H	2	4.50E-01 ( 6.0)	3.54E-09 (107.0)	3.23E-11	1.61E-08
RA-9-8H	215	6.00E-01 ( 4.0)	2.80E-09 (108.0)	9.80E-12	2.93E-08
LAK10RCA-ROO-LFO	4	2.00E-02 ( 22.5)	2.30E-09 (109.0)	4.70E-12	5.15E-09
HACTK9-ROO-LFO	2	2.00E-02 ( 22.5)	1.15E-09 (110.5)	2.35E-12	2.58E-09
HACTK3-ROO-LFO	2	2.00E-02 ( 22.5)	1.15E-09 (110.5)	2.35E-12	2.58E-09
RA-9-2H	472	8.70E-01 ( 3.0)	1.09E-09 (112.0)	1.04E-12	5.99E-09
DOVB202X-BCO-LF	4	2.00E-02 ( 22.5)	5.08E-10 (114.5)	1.19E-12	3.19E-09
DOVB201X-BCO-LF	4	2.00E-02 ( 22.5)	5.08E-10 (114.5)	1.19E-12	3.19E-09
DOVB102X-BCO-LF	4	2.00E-02 ( 22.5)	5.08E-10 (114.5)	1.19E-12	3.19E-09
DOVB101X-BCO-LF	4	2.00E-02 ( 22.5)	5.08E-10 (114.5)	1.19E-12	3.19E-09
OPFAILSCDS-OE-8M	4	3.40E-01 ( 7.0)	9.09E-11 (117.0)	1.20E-14	5.12E-10
RA-9-10H	7	5.50E-01 ( 5.0)	5.97E-11 (118.0)	4.55E-14	2.91E-10
RA-NONE	3	1.00E+00 ( 1.5)	0.00E+00 (119.5)		
EE-CST-LVL	4	1.00E+00 ( 1.5)	0.00E+00 (119.5)		

SEQUENCE TL59  
UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROB (RANK)	% REDUCTION IN THE UNCERTAINTY OF LOG RISK (RANK)	F_05/7E_05*	F_95/7E_95*
G1	716	8.20E-03 ( 33.0)	31.2 ( 1.0)	2.52	0.91
1E8432C-8CC-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
1E8433C-800-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
1E8425B-8CC-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
DG2V035B-FMS-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
HCS001C-FMS-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
DGCOOL-FMS-CC	4	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
SENY035B-FMS-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
1E8233A-8CC-AS	12	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
CD061P-FMS-CC	12	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
1E8234B-8CC-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
DAV-W00-CDM-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
CSC002-FMS-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
D0V-W00-CDM-CC	12	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
DGHV-CC-FMS-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
SHV-W00-CL-CC	8	2.50E-03 ( 53.5)	19.9 ( 12.5)	2.73	0.99
1E8422B-800-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
DG0V01CA-FMS-CC	12	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
1E8412A-8CC-CC	12	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
1E8413A-800-CC	12	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
SMY0205-FMS-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
C20601P-FMS-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
1E8423B-800-CC	8	2.50E-03 ( 58.5)	19.9 ( 12.5)	2.73	0.99
DG2B-GEN-LF-FTR	158	1.90E-02 ( 30.0)	11.2 ( 25.0)	1.06	0.90
DG0-GEN-LF-FTR	201	1.90E-02 ( 30.0)	11.2 ( 25.0)	1.06	0.90
DG2A-GEN-LF-FTR	156	1.90E-02 ( 30.0)	11.2 ( 25.0)	1.06	0.90
FA-B-8F	226	2.70E-02 ( 12.0)	10.4 ( 28.0)	1.08	0.89
JA-B-10H	483	2.00E-02 ( 22.5)	10.4 ( 28.0)	1.03	1.08
DG2A-GEN-LF-FTS	156	2.50E-02 ( 14.5)	8.9 ( 30.5)	0.93	0.75
DG0-GEN-LF-FTS	201	2.50E-02 ( 14.5)	8.9 ( 30.5)	0.93	0.75
DGK-GEN-DM-FTS	17	2.50E-02 ( 14.5)	8.9 ( 30.5)	0.93	0.75
DG2B-GEN-LF-FTS	158	2.50E-02 ( 14.5)	8.9 ( 30.5)	0.93	0.75
1E4327N-800-LFO	80	2.00E-02 ( 22.5)	7.3 ( 36.0)	1.16	0.99
HACTK9-800-LFO	2	2.00E-02 ( 22.5)	7.3 ( 36.0)	1.16	0.99
LAKTORCA-800-LFO	4	2.00E-02 ( 22.5)	7.3 ( 36.0)	1.16	0.99
AP040X2-800-LFO	84	2.00E-02 ( 22.5)	7.3 ( 36.0)	1.16	0.99
HACTK3-800-LFO	2	2.00E-02 ( 22.5)	7.3 ( 36.0)	1.16	0.99
AP039K2-800-LFO	82	2.00E-02 ( 22.5)	7.3 ( 36.0)	1.16	0.99
1E4327N-800-LFO	80	2.00E-02 ( 22.5)	7.3 ( 36.0)	1.16	1.00
1E818ARC-800-LFO	4	5.33E-04 ( 84.0)	6.5 ( 41.5)	1.00	1.00
Z0G1PK18-800-LFO	4	5.00E-04 ( 106.0)	6.5 ( 41.5)	1.00	1.00
CSC02K18-800-LFO	4	5.00E-04 ( 106.0)	6.5 ( 41.5)	1.00	1.00
DGCOOL-BETA	4	1.70E-01 ( 11.0)	4.4 ( 50.5)	1.27	1.09
DG0V03YA-W-UUM	4	5.00E-04 ( 106.0)	3.7 ( 50.5)	1.00	1.00
DG0V01CA-F-UUM	4	5.00E-04 ( 106.0)	3.7 ( 50.5)	1.00	1.00



DGHV03YC-M-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DGOV02YA-M-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DGOV01YA-M-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DGHV02YC-M-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DGHV01YC-M-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DGHV01CC-F-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DG2V11YB-M-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DG2V09YB-M-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
DG2V03CB-F-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
SEVY03CB-F-UUM	4	5.00E-04 (106.0)	3.7	( 50.5)	1.00
LCSC002A-P-UUM	24	3.00E-03 ( 42.0)	3.7	( 58.0)	0.98
DG2B-G-UUM	20	6.00E-03 ( 35.0)	2.9	( 60.0)	1.01
DG2A-G-UUM	20	6.00E-03 ( 35.0)	2.9	( 60.0)	1.01
DG2A-GEN-CC-FTS	32	6.00E-03 ( 35.0)	2.9	( 60.0)	1.01
DG2A-GEN-CC-FTS	28	3.70E-03 ( 38.0)	2.3	( 63.0)	1.01
DG0-GEN-CC-FTS	40	3.70E-03 ( 38.0)	2.3	( 63.0)	1.01
DG2B-GEN-CC-FTS	28	3.70E-03 ( 38.0)	2.3	( 63.0)	1.01
DG2A-GEN-CC-FTR	28	2.80E-03 ( 46.0)	2.2	( 66.0)	0.91
DG0-GEN-CC-FTR	40	2.80E-03 ( 46.0)	2.2	( 66.0)	0.91
DG2B-GEN-CC-FTR	28	2.80E-03 ( 46.0)	2.2	( 66.0)	0.91
C00G01P-PMS-LF	16	1.10E-03 ( 73.5)	2.1	( 69.5)	1.01
HCSC001C-PMS-LF	8	1.10E-03 ( 73.5)	2.1	( 69.5)	1.01
CSCC002-PMS-LF	8	1.10E-03 ( 73.5)	2.1	( 69.5)	1.01
C2D0G01P-PMS-LF	8	1.10E-03 ( 73.5)	2.1	( 69.5)	1.01
RA-1-1-10H	4	2.10E-03 ( 70.0)	1.8	( 72.0)	1.01
*EB423B-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1EB234B-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1E**422B-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1L6433C-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1EB413A-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1EB432C-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1EB233A-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1EB412A-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
1EB425B-800-LF	4	5.00E-04 (106.0)	1.6	( 77.0)	1.00
SWY02CC-FMS-LF	4	5.40E-04 ( 90.0)	1.4	( 84.0)	1.00
DG0V01CA-FMS-LF	4	5.40E-04 ( 90.0)	1.4	( 84.0)	1.00
DGHV01CC-FMS-LF	4	5.40E-04 ( 90.0)	1.4	( 84.0)	1.00
SEVY03CB-FMS-LF	4	5.40E-04 ( 90.0)	1.4	( 84.0)	1.00
DG2V03CB-FMS-LF	4	5.40E-04 ( 90.0)	1.4	( 84.0)	1.00
EE-C5CD300-PLG	6	7.20E-04 ( 79.0)	1.1	( 86.0)	1.00
EE-C2D0G01F-PLG	8	7.20E-04 ( 79.0)	1.1	( 86.0)	1.00
EE-C0D0G01F-PLG	8	7.20E-04 ( 79.0)	1.1	( 86.0)	1.00
RA-15-BH	2	4.50E-01 (  5.0)	0.7	( 90.0)	0.91
RA-9-10H	7	5.50E-01 (  5.0)	0.6	( 91.0)	1.00
C2D0G01P-P-UUM	8	3.00E-03 ( 42.0)	0.0	(103.5)	1.00
SWY02AX-ACK-LFT	4	8.40E-04 ( 76.5)	0.0	(103.5)	1.00
C2D0G01F-F-LG-LF	4	5.80E-04 ( 84.0)	0.0	(103.5)	1.00
SEVY03AX-ACK-LFT	4	8.40E-04 ( 76.5)	0.0	(103.5)	1.00
RLOSP	1	2.10E-04 (120.0)	0.0	(103.5)	1.00
RA-9-8H	215	6.00E-01 (  4.0)	0.0	(103.5)	1.00

RA-9-2M	472	6.70E-01	( 3.0)	0.0	(103.5)
DG0V01FX-KLN-LFB	7	5.80E-04	( 84.0)	0.0	(103.5)
DG0V01CA-RUM-0	12	1.40E-03	( 71.0)	0.0	(103.5)
C00G01P-P-UUM	12	3.00E-03	( 42.0)	0.0	(103.5)
OPFJLSCDS-OE-BM	4	3.40E-01	( 7.0)	0.0	(103.5)
C00G01F-PLG-LF	4	5.80E-04	( 84.0)	0.0	(103.5)
HCSF015C-VCC-LF	4	5.00E-04	(106.0)	0.0	(103.5)
HCSF004C-VCC-LF	4	5.06E-04	(106.0)	0.0	(103.5)
HCS001C-P-UUM	8	3.00E-03	( 42.0)	0.0	(103.5)
DG-FTS-BETA	2	1.20E-02	( 32.0)	0.0	(103.5)
D0VB202X-BCO-LF	4	2.00E-02	( 22.5)	0.0	(103.5)
D0VB201X-BCO-LF	4	2.00E-02	( 22.5)	0.0	(103.5)
D0WV01FX-KLN-LFB	4	5.80E-04	( 84.0)	0.0	(103.5)
D0VB102X-BCO-LF	4	2.00E-02	( 22.5)	0.0	(103.5)
D0VB101X-BCO-LF	4	2.03E-02	( 22.5)	0.0	(103.5)
CSC0300-PLG-LF	4	5.80E-04	( 84.0)	0.0	(103.5)
DG7V03FX-KLN-LFB	4	5.80E-04	( 84.0)	0.0	(103.5)
CSC0002-P-UUM	8	3.00E-03	( 42.0)	0.0	(103.5)
RA-NONE	3	1.00E+00	( 1.5)	0.0	(103.5)
EE-MDP-PSM-BC-R	1	3.30E-01	( 9.0)	0.0	(103.5)
EE-MDC-1AS-CB-R	1	3.31E-01	( 9.0)	0.0	(103.5)
EE-MDC-1AS-A3-R	1	3.30E-01	( 9.0)	0.0	(103.5)
EE-CST-LVL	4	1.00E+00	( 1.5)	0.0	(103.5)

SEQUENCE 1159

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT POS-TL-SEQ3E WITH TOP EVENT FREQUENCY 3.19E-08

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DMF)

2	1	5	5.84E-06	0.19344	DGCOOL-BETA	DGCOOL-PMS-OM	IE-LOSP	Q1	*
3	3	6	3.72E-09	0.30021	RA-B-8H	DGCOOL-PMS-OM	EE-MOP-PSW-BC-R	IE-T101	*
4	4	6	3.72E-09	0.41698	DGCOOL-BETA	RA-NONE	EE-MDC-IAS-AB-R	IE-T101	*
5	4	6	3.72E-09	0.41698	Q1	DGCOOL-PMS-OM	EE-MDC-IAS-AB-R	IE-T101	*
6	4	6	3.72E-09	0.41698	DGCOOL-BETA	RA-NONE	EE-MDC-IAS-AB-R	IE-T101	*
7	2	6	3.72E-09	0.53375	DGCOOL-BETA	DGCOOL-PMS-OM	IE-LOSP	Q1	*
8	2	6	3.72E-09	0.53375	Q1	RA-NONE	IE-LOSP	Q1	*
9	5	6	2.87E-09	0.62380	DG-FTS-BETA	DGX-GEN-OM-FTS	IE-LOSP	Q1	*
10	5	6	2.87E-09	0.62380	RA-15-8H	RA-8-8H	IE-LOSP	Q1	*
11	6	7	1.99E-10	0.65006	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	IE-LOSP	Q1	*
12	6	7	1.99E-10	0.65006	Q1	RA-8-8H	IE-LOSP	Q1	*
13	9	7	1.63E-10	0.63516	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	IE-LOSP	Q1	*
14	9	7	1.63E-10	0.63516	Q1	RA-8-10H	IE-LOSP	Q1	*
15	7	7	1.63E-10	0.64027	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	IE-LOSP	Q1	*
16	7	7	1.63E-10	0.64027	Q1	RA-8-10H	IE-LOSP	Q1	*
17	8	7	1.63E-10	0.64537	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	Q1	*
18	8	7	1.63E-10	0.64537	Q1	RA-8-10H	IE-LOSP	Q1	*
19	10	7	1.59E-10	0.65038	1E4327NK-R00-LFO	DGP-GEN-LF-FTS	IE-LOSP	Q1	*
20	10	7	1.59E-10	0.65038	Q1	RA-8-8H	IE-LOSP	Q1	*
21	13	7	1.59E-10	0.65538	1E4327NY-R00-LFC	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
22	13	7	1.59E-10	0.65538	Q1	RA-8-8H	IE-LOSP	Q1	*
23	12	7	1.59E-10	0.66038	AP040K2-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
24	12	7	1.59E-10	0.66038	Q1	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
25	11	7	1.59E-10	0.66538	AP039X2-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
26	11	7	1.59E-10	0.66538	Q1	RA-8-8H	IE-LOSP	Q1	*
27	14	7	1.30E-10	0.66947	1E4327NK-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
28	14	7	1.30E-10	0.66947	Q1	RA-8-10H	IE-LOSP	Q1	*
29	17	7	1.30E-10	0.67355	AP040K2-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
30	17	7	1.30E-10	0.67355	Q1	RA-8-10H	IE-LOSP	Q1	*
31	16	7	1.30E-10	0.67764	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
32	16	7	1.30E-10	0.67764	Q1	RA-8-10H	IE-LOSP	Q1	*
33	15	7	1.30E-10	0.68172	AP039X2-R00-LFO	DG0-GEN-LF-FTS	IE-LOSP	Q1	*
34	15	7	1.30E-10	0.68172	Q1	RA-8-10H	IE-LOSP	Q1	*
35	20	7	1.30E-10	0.68580	1E4327NK-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	Q1	*
36	20	7	1.30E-10	0.68580	Q1	RA-8-10H	IE-LOSP	Q1	*
37	18	7	1.30E-10	0.68989	AP040K2-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	Q1	*
38	18	7	1.30E-10	0.68989	Q1	RA-8-10H	IE-LOSP	Q1	*
39	21	7	1.30E-10	0.69397	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	IE-LOSP	Q1	*
40	21	7	1.30E-10	0.69397	Q1	RA-8-10H	IE-LOSP	Q1	*
41	19	7	1.30E-10	0.69805	AP039X2-R00-LFO	D50-GEN-LF-FTR	IE-LOSP	Q1	*
42	19	7	1.30E-10	0.69805	Q1	RA-8-10H	IE-LOSP	Q1	*
43	24	7	1.26E-10	0.70206	1E4327NK-R00-LFO	AP039X2-R00-LFO	IE-LOSP	Q1	*
44	24	7	1.26E-10	0.70206	Q1	RA-8-8H	IE-LOSP	Q1	*
45									*

46	25	7	1.28E-10	0.77606	1E4327NX-R00-LFO	AP040X2-R00-LFO	RA-B-8H	D00-GEN-LF-FTR	1E-LOSP
47					Q1	RA-B-8H	RA-9-2H		
48	22	7	1.28E-10	0.77006	1E4327NY-R00-LFO	AP040X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
49					Q1	RA-B-8H	RA-9-2H		
50	23	7	1.28E-10	0.77406	1E4327NY-R00-LFO	AP039X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
51					Q1	RA-B-8H	RA-9-2H		
52	26	7	1.24E-10	0.77794	D00-GEN-LF-FTR	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
53					Q1	RA-B-10H	RA-9-2H		
54	27	7	1.24E-10	0.72162	D00-GEN-LF-FTR	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
55					Q1	RA-B-10H	RA-9-2H		
56	26	7	1.24E-10	0.72570	D00-GEN-LF-FTR	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
57					Q1	RA-B-10H	RA-9-2H		
58	32	7	1.04E-10	0.72697	1E4327NY-R00-LFO	AP039X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
59					Q1	RA-B-10H	RA-9-2H		
60	30	7	1.04E-10	0.73224	1E4327NX-R00-LFO	AP039X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
61					Q1	RA-B-10H	RA-9-2H		
62	29	7	1.04E-10	0.73550	1E4327NY-R00-LFO	AP040X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
63					Q1	RA-B-10H	RA-9-2H		
64	31	7	1.04E-10	0.73877	1E4327NX-R00-LFO	AP040X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
65					Q1	RA-B-10H	RA-9-2H		
66	26	7	9.89E-11	0.74187	1E4327NX-R00-LFO	D00-GEN-LF-FTR	RA-9-2H	DG2A-GEN-LF-FTR	1E-LOSP
67					Q1	RA-B-10H	RA-9-2H		
68	35	7	9.89E-11	0.74495	AP039X2-R00-LFO	D00-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
69					Q1	RA-B-10H	RA-9-2H		
70	33	7	9.89E-11	0.74808	1E4327NY-R00-LFO	D00-GEN-LF-FTR	RA-9-2H	DG2A-GEN-LF-FTR	1E-LOSP
71					Q1	RA-B-10H	RA-9-2H		
72	34	7	9.89E-11	0.75119	AP040X2-R00-LFO	D00-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
73					Q1	RA-B-10H	RA-9-2H		
74	37	7	9.39E-11	0.75413	D00-GEN-LF-FTR	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
75					Q1	RA-B-10H	RA-9-2H		
76	39	6	5.10E-11	0.75573	1E4327NX-R00-LFO	AP039X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
77					Q1	RA-B-8H	DG0-G-UUM		
78	38	6	5.10E-11	0.75734	1E4327NY-R00-LFO	AP039X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
79					Q1	RA-B-8H	DG0-G-UUM		
80	41	6	5.10E-11	0.75894	1E4327NX-R00-LFO	AP040X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
81					Q1	RA-B-8H	DG0-G-UUM		
82	40	6	5.10E-11	0.76054	1E4327NY-R00-LF	AP040X2-R00-LFO	D00-GEN-LF-FTR	D00-GEN-LF-FTR	1E-LOSP
83					Q1	RA-B-8H	DG2B-GEN-LF-FTR		
84	43	7	4.9E-11	0.76204	D00-G-UUM	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
85					Q1	RA-B-8H	RA-9-2H		
86	42	7	4.79E-11	0.76354	D00-GEN-LF-FTR	D-2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
87					Q1	RA-B-8H	RA-9-2H		
88	44	7	4.79E-11	0.76504	D00-GEN-LF-FTR	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
89					Q1	RA-B-8H	RA-9-2H		
90	45	7	3.90E-11	0.76627	D00-GEN-LF-FTR	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
91					Q1	RA-B-10H	RA-9-2H		
92	49	7	3.70E-11	0.76749	D00-GEN-LF-FTR	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
93					Q1	RA-B-10H	RA-9-2H		
94	47	7	3.90E-11	0.76872	D00-G-UUM	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
95					Q1	RA-B-10H	RA-9-2H		
96	45	7	3.90E-11	0.76994	D00-G-UUM	DG2A-GEN-LF-FTR	RA-9-2H	DG2B-GEN-LF-FTR	1E-LOSP
97					Q1	RA-B-10H	RA-9-2H		

98	46	7	3.90E-11	0.77117	DG0-GEN-LF-FTS	DG2A-G-UUM	DG2B-GEN-LF-FTR	1E-LOSP
99					Q1	RA-8-10H	RA-9-2H	
100	50	7	3.90E-11	0.77239	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-G-UUM	1E-LOSP
101					Q1	RA-8-10H	RA-9-2H	
102	53	7	3.83E-11	0.77359	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG2A-G-UUM	1E-LOSP
103					Q1	RA-8-8H	RA-9-8H	
104	54	7	3.83E-11	0.77479	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-G-UUM	1E-LOSP
105					Q1	RA-8-8H	RA-9-8H	
106	51	7	3.83E-11	0.77599	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-G-UUM	1E-LOSP
107					Q1	RA-8-8H	RA-9-8H	
108	52	7	3.83E-11	0.77719	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-G-UUM	1E-LOSP
109					Q1	RA-8-8H	RA-9-8H	
110	57	7	3.03E-11	0.77839	1E4327NX-R00-LFO	DG0-G-UUM	DG2A-GEN-LF-FTS	1E-LOSP
111					Q1	RA-8-8H	RA-9-8H	
112	56	7	3.83E-11	0.77959	1E4327NY-R00-LFO	DG0-G-UUM	DG2A-GEN-LF-FTS	1E-LOSP
113					Q1	RA-8-8H	RA-9-8H	
114	55	7	3.83E-11	0.78080	AP040X2-R00-LFO	DG0-G-UUM	DG2B-GEN-LF-FTS	1E-LOSP
115					Q1	RA-8-8H	RA-9-8H	
116	58	7	3.83E-11	0.78200	AP039X2-R00-LFO	DG0-G-UUM	DG2B-GEN-LF-FTS	1E-LOSP
117					Q1	RA-8-8H	RA-9-8H	
118	60	7	3.12E-11	0.78298	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-G-UUM	1E-LOSP
119					Q1	RA-8-10H	RA-9-7H	
120	62	7	3.12E-11	0.78396	1E4327NX-R00-LFO	DG0-GEN-LF-FTR	DG2A-G-UUM	1E-LOSP
121					Q1	RA-8-10H	RA-9-2H	
122	59	7	3.12E-11	0.78494	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-G UUM	1E-LOSP
123					Q1	RA-8-10H	RA-9-2H	
124	61	7	3.12E-11	0.78592	AP039X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-G-UUM	1E-LOSP
125					Q1	RA-8-10H	RA-9-2H	
126	63	7	3.12E-11	0.78690	1E4327NX-R00-LFO	DG0-G-UUM	DG2A-GEN-LF-FTR	1E-LOSP
127					Q1	RA-8-10H	RA-9-2H	
128	65	7	3.12E-11	0.78788	AP040X2-R00-LFO	DG0-G-UUM	C-2B-GEN-LF-FTR	1E-L
129					Q1	RA-8-10H	RA-9-2H	
130	66	7	3.12E-11	0.78886	1E4327NY-R00-LFO	DG0-G-UUM	DG2A-GEN-LF-FTR	1E-LOSP
131					Q1	RA-8-10H	RA-9-2H	
132	64	7	3.12E-11	0.78984	AP039X2-R00-LFO	DG0-G-UUM	DG2B-GEN-LF-FTR	1E-LOSP
133					Q1	RA-8-10H	RA-9-2H	
134	67	7	2.97E-11	0.79077	DG0-G-UUM	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
135					Q1	RA-8-10H	RA-9-2H	
136	68	7	2.97E-11	0.79170	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-G-UUM	1E-LOSP
137					Q1	RA-8-10H	RA-9-2H	
138	69	7	2.97E-11	0.79263	DG0-GEN-LF-FTR	DG2A-G UUM	DG2B-GEN-LF-FTR	1E-LOSP
139					Q1	RA-8-10H	RA-9-2H	
140	70	7	2.95E-11	0.79356	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
141					Q1	RA-8-8H	RA-9-8H	
142	71	7	2.95E-11	0.79448	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
143					Q1	RA-8-8H	RA-9-8H	
144	72	7	2.95E-11	0.79541	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-CC-FTS	1E-LOSP
145					Q1	RA-8-8H	RA-9-8H	
146	82	7	2.82E-11	0.79629	DG-FTS-BETA	C-X-GEN-LF-FTS	1E-T1	Q1
147					RA-15-8H	RA-8-8H	PLOSP	
148	78	7	2.41E-11	0.79705	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTS	DG2B-GEN-LF-FTS	1E-LOSP
149					Q1	RA-8-10H	RA-9-2H	

150	76	7	2.41E-11	0.79780	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
151					RA-B-10M	RA-Q-2H		
152	74	7	2.41E-11	0.79856	DG0-DL7-CC-FTS	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
153					RA-B-10M	RA-Q-2H		
154	77	7	2.41E-11	0.79932	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-OPN-CC-FTS	1E-LOSP
155					RA-B-10M	RA-Q-2H		
156	75	7	2.41E-11	0.80007	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTS	DG2B-GEN-LF-FTR	1E-LOSP
157					RA-B-10M	RA-Q-2H		
158	73	7	2.41E-11	0.80083	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-CC-FTS	1E-LOSP
159					RA-B-10M	RA-Q-2H		
160	79	7	2.40E-11	0.80158	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-CC-FTR	1E-LOSP
161					RA-B-10M	RA-Q-2H		
162	81	7	2.40E-11	0.80233	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTS	1E-LOSP
163					RA-B-10M	RA-Q-2H		
164	80	7	2.40E-11	0.80308	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
165					RA-B-10M	RA-Q-2H		
166	83	7	2.39E-11	0.80383	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	MCSC001C-P-UM	1E-LOSP
167					RA-B-8M	RA-Q-8H		
168	84	7	2.39E-11	0.80458	CSC0002-P-UM	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP
169					RA-B-8M	RA-Q-8H		
170	86	7	2.39E-11	0.80533	L0P0019-P-UM	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
171					RA-B-8M	RA-Q-8M		
172	85	7	2.39E-11	0.80609	C2D0019-P-UM	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
173					RA-B-8M	RA-Q-8M		
174	89	7	2.36E-11	0.80683	AP030Y2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTS	1E-LOSP
175					RA-B-8M	RA-Q-8M		
176	88	7	2.36E-11	0.80757	1E4327N1-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTS	1E-LOSP
177					RA-B-8M	RA-Q-8M		
178	87	7	2.36E-11	0.80831	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTS	1E-LOSP
179					RA-B-8M	RA-Q-8M		
180	90	7	2.36E-11	0.80905	1E4327N4-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTS	1E-LOSP
181					RA-B-8M	RA-Q-8M		
182	94	7	2.36E-11	0.80979	AP039X2-R00-LFO	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTS	1E-LOSP
183					RA-B-8M	RA-Q-8M		
184	93	7	2.36E-11	0.81053	1E4327N7-R00-LFO	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTS	1E-LOSP
185					RA-B-8M	RA-Q-8M		
186	92	7	2.36E-11	0.81127	AP04-X2-R00-LFO	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTS	1E-LOSP
187					RA-B-8M	RA-Q-8M		
188	91	7	2.36E-11	0.81201	1E4327N9-R00-LFO	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTS	1E-LOSP
189					RA-B-8M	RA-Q-8M		
190	103	7	1.99E-11	0.81263	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V03CB-FMS-CC	1E-LOSP
191					RA-B-8M	RA-Q-8M		
192	114	7	1.99E-11	0.81326	D0V-M00-CDM-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
193					RA-B-8M	RA-Q-8M		
194	115	7	1.99E-11	0.81388	1E8413A-R00-CC	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
195					RA-B-8M	RA-Q-8M		
196	113	7	1.99E-11	0.81451	1E8432C-8CC-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP
197					RA-B-8M	RA-Q-8M		
198	112	7	1.99E-11	0.81514	1E8433C-R00-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP
199					RA-B-8M	RA-Q-8M		
200	110	7	1.99E-11	0.81576	1E8423B-R00-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
201					RA-B-8M	RA-Q-8M		

202	108	7	1.99E-11	0.01639	CZ0G01P-PMS-CC G1	* PGD-GEN-LF-FTS * RA-8-BH	* DG2B-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
203	109	7	1.99E-11	0.81701	1E8412A-BCC-CC G1	* DG2A-GEN-LF-FTS * RA-8-BH	* DG2B-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
204	105	7	1.99E-11	0.81764	C00G01P-PMS-CC G1	* DG2A-GEN-LF-FTS * RA-8-BH	* DG2B-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
205	107	7	1.99E-11	0.81826	1E8233A-BCC-AS G1	* DG2A-GEN-LF-FTS * RA-8-BH	* DG2B-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
206	102	7	1.99E-11	0.81889	DAV-W00-COM-CC G1	* DGD-GEN-LF-FTS * RA-8-BH	* DG2B-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
207	100	7	1.99E-11	0.81951	DGD-GEN-LF-FTS G1	* DG2A-GEN-LF-FTS * RA-8-BH	* DG2B-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
208	98	7	1.99E-11	0.82014	1E8422B-BCC-CC G1	* DGD-GEN-LF-FTS * RA-8-BH	* DG23-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
209	99	7	1.99E-11	0.82076	DGD-GEN-LF-FTS G1	* DG2A-GEN-LF-FTS * RA-8-BH	* HCS001C-PMS-CS * RA-9-BH	* IE-LOSP	*
210	97	7	1.99E-11	0.82139	CSC002-PMS-CC G1	* DGD-GEN-LF-FTS * RA-8-BH	* DG2A-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
211	111	7	1.99E-11	0.82200	1E8425B-BCC-CC G1	* DGD-GEN-LF-FTS * RA-8-BH	* DG22-8L-7-LF-FTS * RA-9-BH	* IE-LOSP	*
212	106	7	1.99E-11	0.82200	1E8234B-BCC-CC G1	* DGD-GEN-LF-FTS * RA-8-BH	* DG2B-6FN-LF-FTS * RA-9-BH	* IE-LOSP	*
213	101	7	1.99E-11	0.82200	DGD-GEN-LF-FTS G1	* DG2A-GEN-LF-FTS * RA-8-BH	* DGHV01CC-PMS-CC * RA-9-BH	* IE-LOSP	*
214	104	7	1.99E-11	0.82200	DGD-GEN-LF-FTS G1	* DG2A-GEN-LF-FTS * RA-8-BH	* DG2B-GEN-LF-FTS * RA-9-BH	* IE-LOSP	*
215	96	7	1.99E-11	0.82200	DGD-GEN-LF-FTS G1	* DG2A-GEN-LF-FTS * RA-8-BH	* IE-LOSP * SMVY02CC-PMS-CC	* Q1	*
216	95	7	1.99E-11	0.82514	DGD-GEN-LF-FTS G1	* DG2B-GEN-LF-FTS * RA-8-BH	* IE-LOSP * SEVY03CB-PMS-CC	* Q1	*
217	124	7	1.95E-11	0.82575	DG2A-GEN-LF-FTR G1	* DG2B-GEN-LF-FTS * RA-8-10H	* IE-LOSP * RA-9-2H	* LFC002A-P-UJM	*
218	121	7	1.95E-11	0.82637	C00G01P-P-UJM G1	* DG2A-GEN-LF-FTS * RA-8-10H	* DG2B-GEN-LF-FTR * RA-9-2H	* IE-LOSP	*
219	118	7	1.95E-11	0.82698	CSC002-P-UJM G1	* DGD-GEN-LF-FTS * RA-8-10H	* DG2A-GEN-LF-FTR * RA-9-2H	* IE-LOSP	*
220	120	7	1.95E-11	0.82739	DGD-GEN-LF-FTR G1	* DG2A-GEN-LF-FTS * RA-8-10H	* HCS001C-P-UJM * RA-9-2H	* IE-LOSP	*
221	117	7	1.95E-11	0.82820	DGD-GEN-LF-FTS G1	* DG2A-GEN-LF-FTR * RA-8-10H	* HCS001C-P-UJM * RA-9-2H	* IE-LOSP	*
222	125	7	1.95E-11	0.82882	DG2A-GEN-LF-FTS G1	* DG2B-GEN-LF-FTR * RA-8-10H	* IE-LOSP * RA-9-2H	* LCSC002A-P-UJM	*
223	123	7	1.95E-11	0.82943	CSC002-P-UJM G1	* DGD-GEN-LF-FTR * RA-8-10H	* DG2A-GEN-LF-FTS * RA-9-2H	* IE-LOSP	*
224	119	7	1.95E-11	0.83004	CZ0G01P-P-UJM G1	* DGD-GEN-LF-FTS * RA-8-10H	* DG2B-GEN-LF-FTR * RA-9-2H	* IE-LOSP	*
225	122	7	1.95E-11	0.83065	DGD-GEN-LF-FTR G1	* DG2A-GEN-LF-FTR * RA-8-10H	* DG2B-GEN-LF-FTS * RA-9-2H	* IE-LOSP	*
226	116	7	1.95E-11	0.83127	CZ0101P-P-UJM G1	* DGD-GEN-LF-FTR * RA-8-10H	* DG2B-GEN-LF-FTS * RA-9-2H	* IE-LOSP	*
227	127	7	1.93E-11	0.83187	1E4327N1-R00-LFO G1	* DGD-GEN-CC-FTS * RA-8-10H	* DG2A-GEN-LF-FTR * RA-9-2H	* IE-LOSP	*
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254	126	7	1.93E-11	0.83248	AP040X2-R00-LFO	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTR	1E-LOSP
255					Q1 RA-8-10H		RA-9-2H	
256	133	7	1.93E-11	0.83308	1E4327NX-R00-LFO	DG0-GEN-CC-FTS	DG2A-GEN-LF-FTR	1E-LOSP
257					Q1 RA-8-10H		RA-9-2H	
258	132	7	1.93E-11	0.83368	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTS	1E-LOSP
259					Q1 RA-8-10H		RA-9-2H	
260	131	7	1.93E-11	0.83429	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-CC-FTS	1E-LOSP
261					Q1 RA-8-10H		RA-9-2H	
262	130	7	1.93E-11	0.83489	AP039X2-R00-LFO	DG0-GEN-LI-FTR	DG2B-GEN-CC-FTS	1E-LOSP
263					Q1 RA-8-10H		RA-9-2H	
264	129	7	1.93E-11	0.83550	AP039X2-R00-LFO	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTR	1E-LOSP
265					Q1 RA-8-10H		RA-9-2H	
266	128	7	1.93E-11	0.83610	1E4327NX-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTS	1E-LOSP
267					Q1 RA-8-10H		RA-9-2H	
268	141	7	1.92E-11	0.83670	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTR	1E-LOSP
269					Q1 RA-8-10H		RA-9-2H	
270	140	7	1.92E-11	0.83731	1E4327NX-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	1E-LOSP
271					Q1 RA-8-10H		RA-9-2H	
272	136	7	1.92E-11	0.83791	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-CC-FTR	1E-LOSP
273					Q1 RA-8-10H		RA-9-2H	
274	139	7	1.92E-11	0.83851	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	1E-LOSP
275					Q1 RA-8-10H		RA-9-2H	
276	137	7	1.92E-11	0.83911	AP040X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTS	1E-LOSP
277					Q1 RA-8-10H		RA-9-2H	
278	138	7	1.92E-11	0.83971	AP039X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTS	1E-LOSP
279					Q1 RA-8-10H		RA-9-2H	
280	135	7	1.92E-11	0.84031	1E4327NX-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTS	1E-LOSP
281					Q1 RA-8-10H		RA-9-2H	
282	134	7	1.92E-11	0.84092	1E4327NY-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTS	1E-LOSP
283					Q1 RA-8-10H		RA-9-2H	
284	143	7	1.91E-11	0.84152	AP040X2-R00-LFO	DG0-GEN-LF-FTS	HCSC001C-P-UUM	1E-LOSP
285					Q1 RA-8-8H		RA-9-8H	
286	142	7	1.91E-11	0.84212	AP039X2-R00-LFO	DG0-GEN-LF-FTS	HCSC001C-P-UUM	1E-LOSP
287					Q1 RA-8-8H		RA-9-8H	
288	151	7	1.91E-11	0.84272	1E4327NX-R00-LFO	C0D601P-P-UUM	DG2A-GEN-LF-FTS	1E-LOSP
289					Q1 RA-8-8H		RA-9-8H	
290	150	7	1.91E-11	0.84332	1E4327NX-R00-LFO	C2D601P-P-UUM	DG0-GEN-LF-FTS	1E-LOSP
291					Q1 RA-8-8H		RA-9-8H	
292	148	7	1.91E-11	0.84392	AP039X2-R00-LFO	C0D601P-P-UUM	DG2B-GEN-LF-FTS	1E-LOSP
293					Q1 RA-8-8H		RA-9-8H	
294	149	7	1.91E-11	0.84452	AP040X2-R00-LFO	CSCC002-P-UUM	DG0-GEN-LF-FTS	1E-LOSP
295					Q1 RA-8-8H		RA-9-8H	
296	147	7	1.91E-11	0.84512	AP040X2-R00-LFO	C0D601P-P-UUM	DG2B-GEN-LF-FTS	1E-LOSP
297					Q1 RA-8-8H		RA-9-8H	
298	146	7	1.91E-11	0.84572	1E4327NY-R00-LFO	C2D601P-P-UUM	DG0-GEN-LF-FTS	1E-LOSP
299					Q1 RA-8-8H		RA-9-8H	
300	145	7	1.91E-11	0.84632	AP039X2-R00-LFO	CSCC002-P-UUM	DG0-GEN-LF-FTS	1E-LOSP
301					Q1 RA-8-8H		RA-9-8H	
302	144	7	1.91E-11	0.84692	1E4327NY-R00-LFO	C0D601P-P-UUM	DG2A-GEN-LF-FTS	1E-LOSP
303					Q1 RA-8-8H		RA-9-8H	
304	153	6	1.69E-11	0.84751	1E4327NY-R00-LFO	APC39X2-R00-LFO	1E-LOSP	LCSC002A-P-UUM
305					Q1 RA-8-10H			



306	154	6	1.89E-11	0.84811	1E4327NK-R00-LFO	AP039K2-R00-LFO	IE-LOSP	LCSC002A-P-UUM
307					Q1 RA-B-10H			
308	152	6	1.89E-11	0.84870	1E4327NY-R00-LFO	AP040K2-R00-LFO	IE-LOSP	LCSC002A-P-UUM
309					Q1 RA-B-10H			
310	155	6	1.89E-11	0.84929	1E4327NK-R00-LFO	AP040K2-R00-LFO	IE-LOSP	LCSC002A-P-UUM
311					Q1 RA-B-10H			
312	157	7	1.89E-11	0.84988	1E4327NK-R00-LFO	AP040K2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP
313					Q1 RA-B-8H			
314	159	7	1.89E-11	0.85048	1E4327NY-R00-LFO	AP039K2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP
315					Q1 RA-B-8H			
316	156	7	1.89E-11	0.85107	1E4327NY-R00-LFO	AP040K2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP
317					Q1 RA-B-8H			
318	158	7	1.89E-11	0.85166	1E4327NK-R00-LFO	AP039K2-R00-LFO	DG0-GEN-CC-FTS	IE-LOSP
319					Q1 RA-B-8H			
320	162	7	1.83E-11	0.85224	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTS	IE-LOSP
321					Q1 RA-B-10H			
322	161	7	1.83E-11	0.85281	DG0-GEN-CC-FTS	DF2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
323					Q1 RA-B-10H			
324	160	7	1.83E-11	0.85338	DG0-GEN-LF-FTR	LG2A-GEN-CC-FTS	DG2B-GEN-LF-FTR	IE-LOSP
325					Q1 RA-B-10H			
326	165	7	1.82E-11	0.85396	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-CC-FTR	IE-LOSP
327					Q1 RA-B-10H			
328	164	7	1.82E-11	0.85453	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP
329					Q1 RA-B-10H			
330	163	7	1.82E-11	0.85510	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTR	IE-LOSP
331					Q1 RA-B-10H			
332	168	7	1.82E-11	0.85567	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTR	IE-LOSP
333					Q1 RA-B-10H			
334	167	7	1.82E-11	0.85624	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP
335					Q1 RA-B-10H			
336	166	7	1.82E-11	0.85681	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTS	IE-LOSP
337					Q1 RA-B-10H			
338	176	7	1.63E-11	0.85732	1EB422B-8CC-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP
339					Q1 RA-B-10H			
340	182	7	1.63E-11	0.85783	1EB412A-8CC-CC	DG2A-GEN-LF-FTS	RA-9-2H	IE-LOSP
341					Q1 RA-B-10H			
342	181	7	1.63E-11	0.85835	5Z0601P-PMS-CC	DG0-GEN-LF-FTS	RA-9-2H	IE-LOSP
343					Q1 RA-B-10H			
344	180	7	1.63E-11	0.85886	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTS	RA-9-2H	IE-LOSP
345					Q1 RA-B-10H			
346	179	7	1.63E-11	0.85937	1EB433C-800-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP
347					Q1 RA-B-10H			
348	177	7	1.63E-11	0.85988	1EB234B-8CC-CC	DG0-GEN-LF-FTS	RA-9-2H	IE-LOSP
349					Q1 RA-B-10H			
350	175	7	1.63E-11	0.86039	DAV-M00-COM-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP
351					Q1 RA-B-10H			
352	173	7	1.63E-11	0.86090	1EB423B-800-CC	DG0-GEN-LF-FTS	RA-9-2H	IE-LOSP
353					Q1 RA-B-10H			
354	170	7	1.63E-11	0.86141	DOV-M0B-COM-CC	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP
355					Q1 RA-B-10H			
356	169	7	1.63E-11	0.86192	1EB413A-800-CC	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP
357					Q1 RA-B-10H			

358	172	7	1.63E-11	0.86243	C00G01P-PMS-CC	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
359					Q1	RA-8-10H	RA-9-2H	
360	178	7	1.63E-11	0.86294	1E8432C-BCC-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP
361					Q1	RA-8-10H	RA-9-2H	
362	171	7	1.63E-11	0.86345	1E8233A-BCC-AS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
363					Q1	RA-8-10H	RA-9-2H	
364	183	7	1.63E-11	0.86396	1E8425B-BCC-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
365					Q1	RA-8-10H	RA-9-2H	
366	174	7	1.63E-11	0.86447	CSCC002-PMS-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP
367					Q1	RA-8-10H	RA-9-2H	
368	210	7	1.63E-11	0.86498	1E8413A-B00-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
369					Q1	RA-8-10H	RA-9-2H	
370	109	7	1.63E-11	0.86549	C00G01P-PMS-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
371					Q1	RA-8-10H	RA-9-2H	
372	203	7	1.63E-11	0.86600	C2D0G01P-PMS-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
373					Q1	RA-8-10H	RA-9-2H	
374	06	7	1.63E-11	0.86651	DAV-M00-COM-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
375					Q1	RA-8-10H	RA-9-2H	
376	204	7	1.63E-11	0.86702	1E8422B-BCC-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
377					Q1	RA-8-10H	RA-9-2H	
378	06	7	1.63E-11	0.86753	1E8254B-BCC-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
379					Q1	RA-8-10H	RA-9-2H	
380	201	7	1.63E-11	0.86804	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	HCSC001C-PMS-CS	1E-LOSP
381					Q1	RA-8-10H	RA-9-2H	
382	200	7	1.63E-11	0.86855	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DHV-M00-COM-CC	1E-LOSP
383					Q1	RA-8-10H	RA-9-2H	
384	205	7	1.63E-11	0.86906	D0V-M00-COM-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
385					Q1	RA-8-10H	RA-9-2H	
386	199	7	1.63E-11	0.86958	1E8412A-BCC-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
387					Q1	RA-8-10H	RA-9-2H	
388	198	7	1.63E-11	0.87009	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DHV-M00-COM-CC	1E-LOSP
389					Q1	RA-8-10H	RA-9-2H	
390	197	7	1.63E-11	0.87060	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DGHV01CC-FMS-CC	1E-LOSP
391					Q1	RA-8-10H	RA-9-2H	
392	196	7	1.63E-11	0.87111	1E8423B-B00-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
393					Q1	RA-8-10H	RA-9-2H	
394	195	7	1.63E-11	0.87162	1E8425B-BCC-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
395					Q1	RA-8-10H	RA-9-2H	
396	194	7	1.63E-11	0.87213	1E8233A-BCC-AS	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
397					Q1	RA-8-10H	RA-9-2H	
398	192	7	1.63E-11	0.87264	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	DG2V03CB-FMS-CC	1E-LOSP
399					Q1	RA-8-10H	RA-9-2H	
400	191	7	1.63E-11	0.87315	1E8433C-B00-CC	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	1E-LOSP
401					Q1	RA-8-10H	RA-9-2H	
402	190	7	1.63E-11	0.87366	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DGHV01CC-FMS-CC	1E-LOSP
403					Q1	RA-8-10H	RA-9-2H	
404	203	7	1.63E-11	0.87417	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
405					Q1	RA-8-10H	RA-9-2H	
406	188	7	1.63E-11	0.87468	1E8432C-BCC-CC	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	1E-LOSP
407					Q1	RA-8-10H	RA-9-2H	
408	189	7	1.63E-11	0.87519	CSCC002-PMS-CC	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	1E-LOSP
409					Q1	RA-8-10H	RA-9-2H	

410	187	7	1.63E-11	0.87570	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	DG2V03CB-FMS-CC	IE-LOSP	*
411					Q1	RA-8-10H	RA-9-2H		*
412	207	7	1.63E-11	0.87621	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	HCSC001C-FMS-CS	IE-LOSP	*
413					Q1	RA-8-10H	RA-9-2H		*
414	193	7	1.63E-11	0.87672	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	IE-LOSP	Q1	*
415					RA-8-10H	RA-9-2H	SMVY02CC-FMS-CC		*
416	185	7	1.63E-11	0.87723	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	Q1	*
417					RA-8-10H	RA-9-2H	SMVY02CC-FMS-LC		*
418	184	7	1.63E-11	0.87774	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	IE-LOSP	Q1	*
419					RA-8-10H	RA-9-2H	SEVY03CB-FMS-CC		*
420	186	7	1.63E-11	0.87825	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	IE-LOSP	Q1	*
421					RA-8-10H	RA-9-2H	IE-LOSP		*
422	211	7	1.62E-11	0.87876	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	SEVY03CB-FMS-CC	LESC002A-P-UUM	*
423					Q1	RA-8-10H	RA-9-10H		*
424	218	7	1.59E-11	0.87926	AP039X2-ROO-LFO	DG0-GEN-LF-FTS	DRV-M00-COM-CC	IE-LOSP	*
425					Q1	RA-8-8H	RA-9-8H		*
426	217	7	1.59E-11	0.87976	AP040X2-ROO-LFO	DG0-GEN-LF-FTS	DHV-M00-COM-CC	IE-LOSP	*
427					Q1	RA-8-8H	RA-9-8H		*
428	216	7	1.59E-11	0.88026	AP040X2-ROO-LFO	DG0-GEN-LF-FTS	DGHV01CC-FMS-CC	IE-LOSP	*
429					Q1	RA-8-8H	RA-9-8H		*
430	215	7	1.59E-11	0.88076	AP040X2-ROO-LFO	DG0-GEN-LF-FTS	HCSC001C-FMS-CS	IE-LOSP	*
431					Q1	RA-8-8H	RA-9-8H		*
432	214	7	1.59E-11	0.88126	AP039X2-ROO-LFO	DG0-GEN-LF-FTS	DGHV01CC-FMS-CC	IE-LOSP	*
433					Q1	RA-8-8H	RA-9-8H		*
434	212	7	1.59E-11	0.88176	1E4327NY-ROO-LFO	DG0-GEN-LF-FTS	DG2V03CB-FMS-CC	IE-LOSP	*
435					Q1	RA-8-8H	RA-9-8H		*
436	219	7	1.59E-11	0.88226	1E4327NX-ROO-LFO	DG0-GEN-LF-FTS	DG2V03CB-FMS-CC	IE-LPMP	*
437					Q1	RA-8-8H	RA-9-8H		*
438	213	7	1.59E-11	0.88276	AP039X2-ROO-LFO	DG0-GEN-LF-FTS	RA-9-8H	IE-LOSP	*
439					Q1	RA-8-8H	DG0-GEN-LF-FTS		*
440	254	7	1.59E-11	0.88326	1E8432C-BCC-CC	AP039X2-ROO-LFO	DG0-GEN-LF-FTS	IE-LOSP	*
441					Q1	RA-8-8H	RA-9-8H		*
442	253	7	1.59E-11	0.88377	AP039X2-ROO-LFO	DGV-M00-COM-CC	DG2B-GEN-LF-FTS	IE-LOSP	*
443					Q1	RA-8-8H	RA-9-8H		*
444	252	7	1.59E-11	0.88427	1E4327NX-ROO-LFO	DGV-M00-COM-CC	RA-9-8H	IE-LOSP	*
445					Q1	RA-8-8H	RA-9-8H		*
446	250	7	1.59E-11	0.88477	1E8433C-800-CC	AP040X2-ROO-LFO	DG0-GEN-LF-FTS	IE-LOSP	*
447					Q1	RA-8-8H	RA-9-8H		*
448	249	7	1.59E-11	0.88527	1E8432C-BCC-CC	AP040X2-ROO-LFO	RA-9-8H	IE-LOSP	*
449					Q1	RA-8-8H	RA-9-8H		*
450	248	7	1.59E-11	0.88577	1E4327NY-ROO-LFO	1E8234B-BCC-CC	DG0-GEN-LF-FTS	IE-LOSP	*
451					Q1	RA-8-8H	RA-9-8H		*
452	246	7	1.59E-11	0.88627	1E4327NX-ROO-LFO	1E8234A-BCC-AS	DG2A-GEN-LF-FTS	IE-LOSP	*
453					Q1	RA-8-8H	RA-9-8H		*
454	245	7	1.59E-11	0.88677	1E4327NY-ROO-LFO	1E8413A-800-CC	DG2A-GEN-LF-FTS	IE-LOSP	*
455					Q1	RA-8-8H	RA-9-8H		*
456	244	7	1.59E-11	0.88727	1E4327NX-ROO-LFO	1E8412A-BCC-CC	DG2A-GEN-LF-FTS	IE-LOSP	*
457					Q1	RA-8-8H	RA-9-8H		*
458	243	7	1.59E-11	0.88777	AP039X2-ROO-LFO	DG0V01CA-FMS-CC	DG2B-GEN-LF-FTS	IE-LOSP	*
459					Q1	RA-8-8H	RA-9-8H		*
460	242	7	1.59E-11	0.88827	1E8233A-BCC-AS	AP039X2-ROO-LFO	DG2B-GEN-LF-FTS	IE-LOSP	*
461					Q1	RA-8-8H	RA-9-8H		*

462	241	7	1.59E-11	0.89877	1E8413A-B00-CC	AP039X2-R00-LF0	DG2B-GEN-LF-FTS	1E-LOSP	*
463					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
464	240	7	1.59E-11	0.89927	1E8413A-B00-CC	AP040X2-R00-LF0	DG2B-GEN-LF-FTS	1E-LOSP	*
465					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
466	239	7	1.59E-11	0.88977	1E4327NY-R00-LF0	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTS	1E-LOSP	*
467					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
468	238	7	1.59E-11	0.89027	1E4327NY-R00-LF0	C00G01P-PMS-CC	DG2A-GEN-LF-FTS	1E-LOSP	*
469					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
470	237	7	1.59E-11	0.89077	1E4327NY-R00-LF0	1E8233A-BCC-AS	DG2A-GEN-LF-FTS	1E-LOSP	*
471					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
472	236	7	1.59E-11	0.89127	1E8412A-BCC-CC	AP040X2-R00-LF0	DG2B-GEN-LF-FTS	1E-LOSP	*
473					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
474	235	7	1.59E-11	0.89177	1E8233A-BCC-AS	AP040X2-R00-LF0	DG2B-GEN-LF-FTS	1E-LOSP	*
475					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
476	234	7	1.59E-11	0.89227	AP040X2-R00-LF0	C00G01P-PMS-CC	DG2B-GEN-LF-FTS	1E-LOSP	*
477					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
478	233	7	1.59E-11	0.89277	AP040X2-R00-LF0	DG0V01CA-FMS-CC	DG2B-GEN-LF-FTS	1E-LOSP	*
479					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
480	232	7	1.59E-11	0.89327	1E4327NX-R00-LF0	DG0V01CA-FMS-CC	DG2A-GEN-LF-FTS	1E-LOSP	*
481					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
482	231	7	1.59E-11	0.89377	AP039X2-R00-LF0	C00G01P-PMS-CC	DG2B-GEN-LF-FTS	1E-LOSP	*
483					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
484	230	7	1.59E-11	0.89427	AP040X2-R00-LF0	D0V-M00-COM-CC	DG2B-GEN-LF-FTS	1E-LOSP	*
485					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
486	229	7	1.59E-11	0.89477	1E4327NY-R00-LF0	1E84228-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
487					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
488	228	7	1.59E-11	0.89527	1E4327NY-R00-LF0	DAV-M00-COM-CC	DG0-GEN-LF-FTS	1E-LOSP	*
489					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
490	227	7	1.59E-11	0.89577	1E4327NX-R00-LF0	1E82348-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
491					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
492	247	7	1.59E-11	0.89627	1E4327NX-R00-LF0	C00G01P-PMS-CC	DG2A-GEN-LF-FTS	1E-LOSP	*
493					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
494	226	7	1.59E-11	0.89677	1E4327NY-R00-LF0	C20G01P-PMS-CC	DG0-GEN-LF-FTS	1E-LOSP	*
495					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
496	225	7	1.59E-11	0.89727	1E4327NX-R00-LF0	1E84258-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
497					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
498	224	7	1.59E-11	0.89777	1E4327NX-R00-LF0	1E84228-BCC-CC	DG0-GEN-LF-FTS	1E-LOSP	*
499					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
500	251	7	1.59E-11	0.89827	1E4327NX-R00-LF0	DAV-M00-COM-CC	DG0-GEN-LF-FTS	1E-LOSP	*
501					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*
502	223	7	1.59E-11	0.89877	AP039X2-R00-LF0	DG0-GEN-LF-FTS	1E-LOSP	Q1	*
503					RA-8-BH	RA-9-BH	SAWY02CC-FMS-CC	Q1	*
504	222	7	1.59E-11	0.89927	AP040X2-R00-LF0	DG0-GEN-LF-FTS	1E-LOSP	Q1	*
505					RA-8-BH	RA-9-BH	SAWY02CC-FMS-CC	Q1	*
506	221	7	1.59E-11	0.89977	1E4327NY-R00-LF0	DG0-GEN-LF-FTS	1E-LOSP	Q1	*
507					RA-8-BH	RA-9-BH	SEVY03CB-FMS-CC	1E-LOSP	*
508	255	7	1.59E-11	0.90027	AP03YX2-R00-LF0	CSCC002-FMS-CC	DG0-GEN-LF-FTS	1E-LOSP	*
509					Q1	RA-8-BH	RA-9-BH	Q1	*
510	220	7	1.59E-11	0.90077	1E4327NX-R00-LF0	DG0-GEN-LF-FTS	1E-LOSP	1E-LOSP	*
511					RA-8-BH	RA-9-BH	SEVY03CB-FMS-CC	1E-LOSP	*
512	265	7	1.59E-11	0.90127	AP040X2-R00-LF0	CSCC002-FMS-CC	DG0-GEN-LF-FTS	1E-LOSP	*
513					Q1	RA-8-BH	RA-9-BH	1E-LOSP	*

514	264	7	1.59E-11	0.90177	1E4327NX-ROO-LFC	* 1E84238-B00-CC	* DGD-GEN-LF-FTS	* 1E-LOSP	*
515					Q1	* RA-9-8H	* RA-9-8H	+	
516	263	7	1.59E-11	0.90227	1E4327NX-ROO-LFO	* C2D001P-PMS-CC	* DGD-GEN-LF-FTS	* 1E-LOSP	*
517					Q1	* RA-8-8H	* RA-9-8H	+	
518	262	7	1.59E-11	0.90278	1E4327NY-ROO-LFO	* 1E8412A-BCC-CC	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
519					Q1	* RA-8-8H	* RA-9-8H	+	
520	260	7	1.59E-11	0.90328	1E4327NY-ROO-LFO	* 1E84258-BCC-CC	* DGD-GEN-LF-FTS	* 1E-LOSP	*
521					Q1	* RA-8-8H	* RA-9-8H	+	
522	259	7	1.59E-11	0.90378	1E4327NY-ROO-LFO	* 1E84238-B00-CC	* DGD-GEN-LF-FTS	* 1E-LOSP	*
523					Q1	* RA-8-8H	* RA-9-8H	+	
524	258	7	1.59E-11	0.90428	1E4327NX-ROO-LFO	* 1E8413A-B00-CC	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
525					Q1	* RA-8-8H	* RA-9-8H	+	
526	261	7	1.59E-11	0.90478	1E8412A-BCC-CC	* AP039X2-ROO-LFO	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
527					Q1	* RA-8-8H	* RA-9-8H	+	
528	257	7	1.59E-11	0.90528	1E4327NY-ROO-LFO	* DGV-M00-COM-CC	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
529					Q1	* RA-8-8H	* RA-9-8H	+	
530	256	7	1.59E-11	0.90578	1E4327NY-ROO-LFO	* AP039X2-ROO-LFO	* DGD-GEN-LF-FTS	* 1E-LOSP	*
531					Q1	* RA-8-3H	* RA-9-8H	+	
532	271	7	1.56E-11	0.90627	AP039X2-ROO-LFO	* DGD-GEN-LF-FTR	* HCSC001C-P-UUM	* 1E-LOSP	*
533					Q1	* RA-8-10H	* RA-9-2H	+	
534	270	7	1.56E-11	0.90676	1E4327NX-ROO-LFO	* DG2A-GEN-LF-FTR	* 1E-LOSP	* LCSC002A-P-UUM	*
535					Q1	* RA-8-10H	* RA-9-2H	+	
536	268	7	1.56E-11	0.90725	AP040X2-ROO-LFO	* DGD-GEN-LF-FTR	* HCSC001C-P-UUM	* 1E-LOSP	*
537					Q1	* RA-8-10H	* RA-9-2H	+	
538	267	7	1.56E-11	0.90774	AP039X2-ROO-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP	* LCSC002A-P-UUM	*
539					Q1	* RA-8-10H	* RA-9-2H	+	
540	266	7	1.56E-11	0.90823	AP040X2-ROO-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP	* LCSC002A-P-UUM	*
541					Q1	* RA-8-10H	* RA-9-2H	+	
542	269	7	1.56E-11	0.90872	1E4327NY-ROO-LFO	* DG2A-GEN-LF-FTR	* 1E-LOSP	* LCSC002A-P-UUM	*
543					Q1	* RA-8-10H	* RA-9-2H	+	
544	279	7	1.56E-11	0.90921	AP039X2-ROO-LFO	* C0D001P-P-UUM	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
545					Q1	* RA-8-10H	* RA-9-2H	+	
546	278	7	1.56E-11	0.90970	AP040X2-ROO-LFO	* C0D001P-P-UUM	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
547					Q1	* RA-8-10H	* RA-9-2H	+	
548	277	7	1.56E-11	0.91019	1E4327NX-ROO-LFO	* C2D001P-P-UUM	* DGD-GEN-LF-FTR	* 1E-LOSP	*
549					Q1	* RA-8-10H	* RA-9-2H	+	
550	276	7	1.56E-11	0.91068	1E4327NX-ROO-LFO	* C0D001P-P-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
551					Q1	* RA-8-10H	* RA-9-2H	+	
552	275	7	1.56E-11	0.91117	1E4327NY-ROO-LFO	* C2D001P-P-UUM	* DGD-GEN-LF-FTR	* 1E-LOSP	*
553					Q1	* RA-8-10H	* RA-9-2H	+	
554	274	7	1.56E-11	0.91166	AP040X2-ROO-LFO	* CSC002-P-UUM	* DGD-GEN-LF-FTR	* 1E-LOSP	*
555					Q1	* RA-8-10H	* RA-9-2H	+	
556	273	7	1.56E-11	0.91215	AP039X2-ROO-LFO	* CSC002-P-UUM	* DGD-GEN-LF-FTR	* 1E-LOSP	*
557					Q1	* RA-8-10H	* RA-9-2H	+	
558	272	7	1.56E-11	0.91264	1E4327NY-ROO-LFO	* C0D001P-P-UUM	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
559					Q1	* RA-8-10H	* RA-9-2H	+	
560	283	7	1.53E-11	0.91312	1E4327NX-ROO-LFO	* AP040X2-P	* DGD-GEN-CC-FTR	* 1E-LOSP	*
561					Q1	* RA-8-10H	* RA-9-2H	+	
562	262	7	1.53E-11	0.91360	1E4327NY-ROO-LFO	* AP039X2-ROO-LFO	* DGD-GEN-CC-FTR	* 1E-LOSP	*
563					Q1	* RA-8-10H	* RA-9-2H	+	
564	281	7	1.53E-11	0.91408	1E4327NX-ROO-LFO	* AP039X2-ROO-LFO	* DGD-GEN-CC-FTR	* 1E-LOSP	*
565					Q1	* RA-8-10H	* RA-9-2H	+	

566	280	7	1.53E-11	0.91456	1E4327NY-R00-LFO	P040X2-R00-LFO	D00-GEN-CC-FTR	1E-LOSP
567					Q1	RA-8-10H	RA-9-2H	
568	288	7	1.48E-11	0.91503	C2D601P-P-UUM	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
569					Q1	RA-8-10H	RA-9-2H	
570	287	7	1.48E-11	0.91549	CSCC002-P-UUM	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	1E-LOSP
571					Q1	RA-8-10H	RA-9-2H	
572	276	7	1.48E-11	0.91596	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	HCSC001C-P-UUM	1E-LOSP
573					Q1	RA-8-10H	RA-9-2H	
574	285	7	1.48E-11	0.91643	C00G01P-P-UUM	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
575					Q1	CA-8-10H	RA-9-2H	LCSC002A-P-UUM
576	284	7	1.48E-11	0.91689	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP	
577					Q1	RA-8-10H	RA-9-2H	
578	296	7	1.46E-11	0.91735	AP040K2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-CC-FTR	1E-LOSP
579					Q1	RA-8-10H	RA-9-2H	
580	295	7	1.46E-11	0.91781	AP039X2-R00-LFO	D00-GEN-LF-FTR	DG2B-GEN-CC-FTR	1E-LOSP
581					Q1	RA-8-10H	RA-9-2H	
582	294	7	1.46E-11	0.91826	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	1E-LOSP
583					Q1	RA-8-10H	RA-9-2H	
584	293	7	1.46E-11	0.91872	AP039X2-R00-LFO	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTR	1E-LOSP
585					Q1	RA-8-10H	RA-9-2H	
586	292	7	1.46E-11	0.91918	AP040K2-R00-LFO	D00-GEN-CC-FTR	DG2B-GEN-LF-FTR	1E-LOSP
587					Q1	RA-8-10H	RA-9-2H	
588	291	7	1.46E-11	0.91964	1E4327NY-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	1E-LOSP
589					Q1	RA-8-10H	RA-9-2H	
590	290	7	1.46E-11	0.92009	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	1E-LOSP
591					Q1	RA-8-10H	RA-9-2H	
592	289	7	1.46E-11	0.92055	1E4327NY-R00-LFO	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	1E-LOSP
593					Q1	RA-8-10H	RA-9-2H	
594	297	7	1.38E-11	0.92099	DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP
595					Q1	RA-8-10H	RA-9-2H	
596	299	7	1.38E-11	0.92142	DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTR	1E-LOSP
597					Q1	RA-8-10H	RA-9-2H	
598	298	7	1.38E-11	0.92185	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTR	1E-LOSP
599					Q1	RA-8-10H	RA-9-2H	
600	340	7	1.30E-11	0.92226	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	Q1
601					RA-8-10H	RA-9-2H	SEVY03CB-FMS-CC	
602	330	7	1.30E-11	0.92267	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	Q1
603					RA-8-10H	RA-9-2H	SWY02CC-FMS-CC	
604	321	7	1.30E-11	0.92308	AP040K2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	Q1
605					RA-8-10H	RA-9-2H	SWY02CC-FMS-CC	
606	301	7	1.30E-11	0.92349	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP	Q1
607					RA-8-10H	RA-9-2H	SEVY03CB-FMS-CC	
608	353	7	1.30E-11	0.92390	1E4327NY-R00-LFO	DAV-MCO-COM-CC	DG0-GEN-LF-FTR	1E-LOSP
609					Q1	RA-8-10H	RA-9-2H	
610	352	7	1.30E-11	0.92430	1E8413A-B00-CC	AP039X2-R00-LFO	DG2B-GEN-LF-FTR	1E-LOSP
611					Q1	RA-8-10H	RA-9-2H	
612	342	7	1.30E-11	0.92471	AP039X2-R00-LFO	D00-M00-COM-CC	DG2B-GEN-LF-FTR	1E-LOSP
613					Q1	RA-8-10H	RA-9-2H	
614	348	7	1.30E-11	0.92512	AP039X2-R00-LFO	DG0-GEN-LF-FTR	DGHV01CC-FMS-CC	1E-LOSP
615					Q1	RA-8-10H	RA-9-2H	
616	345	7	1.30E-11	0.92553	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2V03CB-FMS-CC	1E-LOSP
617					Q1	RA-8-10H	RA-9-2H	

618	347	7	1.30E-11	0.92594	1E4327WX-ROO-LFO	* C2DGG01P-PMS-CC	* DGO-GEN-LF-FTR	* 1E-LOSP	*
619					Q1	* RA-8-10H	* RA-9-2H	*	
620	344	7	1.30E-11	0.92635	AP039X2-ROO-LFO	* C0DGG01P-PMS-CC	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
621					Q1	* RA-8-10H	* RA-9-2H	*	
622	349	7	1.30E-11	0.92675	1E4327NX-ROO-LFO	* 1E8423B-BOO-CC	* DGO-GEN-LF-FTR	* 1E-LOSP	*
623					Q1	* RA-8-10H	* RA-9-2H	*	
624	341	7	1.30E-11	0.92716	1E8412A-BCC-CC	* P039X2-ROO-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
625					Q1	* RA-8-10H	* RA-9-2H	*	
626	339	7	1.30E-11	0.92757	1E4327NY-ROO-LFO	* 1E8425B-BCC-CC	* DGO-GEN-LF-FTR	* 1E-LOSP	*
627					Q1	* RA-8-10H	* RA-9-2H	*	
628	338	7	1.30E-11	0.92798	1E4327NY-ROO-LFO	* 1E8422B-BCC-CC	* DGO-GEN-LF-FTR	* 1E-LOSP	*
629					Q1	* RA-8-10H	* RA-9-2H	*	
630	337	7	1.30E-11	0.92839	1E4327NY-ROO-LFO	* 1E8423B-BOO-CC	* DGO-GEN-LF-FTR	* 1E-LOSP	*
631					Q1	* RA-8-10H	* RA-9-2H	*	
632	336	7	1.30E-11	0.92880	1E4327NY-ROO-LFO	* C2DGG01P-PMS-CC	* DGO-GEN-LF-FTR	* 1E-LOSP	*
633					Q1	* RA-8-10H	* RA-9-2H	*	
634	334	7	1.30E-11	0.92920	1E4327NY-ROO-LFO	* DGO-GEN-LF-FTR	* DG2V03CB-FMS-CC	* 1E-LOSP	*
635					Q1	* RA-8-10H	* RA-9-2H	*	
636	333	7	1.30E-11	0.92961	AP040X2-ROO-LFO	* DGV-MOD-COM-CC	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
637					Q1	* RA-8-10H	* RA-9-2H	*	
638	332	7	1.30E-11	0.93002	1E8413A-BOO-CC	* AP040X2-ROO-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
639					Q1	* RA-8-10H	* RA-9-2H	*	
640	331	7	1.30E-11	0.93043	1E8412A-BCC-CC	* AP040X2-ROO-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
641					Q1	* RA-8-10H	* RA-9-2H	*	
642	329	7	1.30E-11	0.93084	1E4327NX-ROO-LFO	* DGOV01CA-FMS-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
643					Q1	* RA-8-10H	* RA-9-2H	*	
644	328	7	1.30E-11	0.93125	AP039X2-ROO-LFO	* DGO-GEN-LF-FTR	* HCSC001C-PMS-CS	* 1E-LOSP	*
645					Q1	* RA-8-10H	* RA-9-2H	*	
646	327	7	1.30E-11	0.93165	1E4327NX-ROO-LFO	* C0DGG01P-PMS-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
647					Q1	* RA-8-10H	* RA-9-2H	*	
648	326	7	1.30E-11	0.93206	1E8433C-BOO-CC	* AP039X2-ROO-LFO	* DGO-GEN-LF-FTR	* 1E-LOSP	*
649					Q1	* RA-8-10H	* RA-9-2H	*	
650	325	7	1.30E-11	0.93247	1E8432C-BCC-CC	* AP039X2-ROO-LFO	* DGO-GEN-LF-FTR	* 1E-LOSP	*
651					Q1	* RA-8-10H	* RA-9-2H	*	
652	324	7	1.30E-11	0.93288	1E4327NX-ROO-LFO	* 1E8233A-BCC-AS	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
653					Q1	* RA-8-10H	* RA-9-2H	*	
654	323	7	1.30E-11	0.93329	1E4327NX-ROO-LFO	* DGV-MOD-COM-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
655					Q1	* RA-8-10H	* RA-9-2H	*	
656	322	7	1.30E-11	0.93370	1E4327NY-ROO-LFO	* 1E8413A-BOO-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
657					Q1	* RA-8-10H	* RA-9-2H	*	
658	320	7	1.30E-11	0.93410	1E4327NX-ROO-LFO	* 1E8412A-BCC-CC	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
659					Q1	* RA-8-10H	* RA-9-2H	*	
660	319	7	1.30E-11	0.93451	AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* HCSC001C-PMS-CS	* 1E-LOSP	*
661					Q1	* RA-8-10H	* RA-9-2H	*	
662	316	7	1.30E-11	0.93492	1E8432C-BCC-CC	* AP040X2-ROO-LFO	* DGO-GEN-LF-FTR	* 1E-LOSP	*
663					Q1	* RA-8-10H	* RA-9-2H	*	
664	314	7	1.30E-11	0.93533	AP040X2-ROO-LFO	* DGOV01CA-FMS-CC	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
665					Q1	* RA-8-10H	* RA-9-2H	*	
666	312	7	1.30E-11	0.93574	1E8233A-BCC-AS	* AP040X2-ROO-LFO	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
667					Q1	* RA-8-10H	* RA-9-2H	*	
668	335	7	1.30E-11	0.93615	1E4327NY-ROO-LFO	* 1E8234B-BCC-CC	* DGO-GEN-LF-FTR	* 1E-LOSP	*
669					Q1	* RA-8-10H	* RA-9-2H	*	

670	210	7	1.30E-11	0.93655	1E4327NY-R00-LFO Q1	DG0V01CA-FMS-CC RA-B-10H	DG2A-GEN-LF-FTR RA-9-2H	IE-LOSP	*
671	309	7	1.30E-11	0.93696	1E4327NY-R00-LFO Q1	C00G01P-PMS-CC RA-B-10H	DG2A-GEN-LF-FTR RA-9-2H	IE-LOSP	*
672	311	7	1.30E-11	0.93737	AP039X2-R00-LFO Q1	DG0V01CA-FMS-CC RA-B-10H	DG2B-GEN-LF-FTR RA-9-2H	IE-LOSP	*
673	308	7	1.30E-11	0.93778	1E4327NY-R00-LFO Q1	1E8233A-BCC-AS RA-B-10H	DG2A-GEN-LF-FTR RA-9-2H	IE-LOSP	*
674	307	7	1.30E-11	0.93819	1E4327NY-R00-LFO Q1	DDV-MOD-COM-CC RA-B-10H	DG2A-GEN-LF-FTR RA-9-2H	IE-LOSP	*
675	306	7	1.30E-11	0.93860	1E4327NY-R00-LFO Q1	1E8473A-800-CC RA-B-10H	DG2A-GEN-LF-FTR RA-9-2H	IE-LOSP	*
676	351	7	1.30E-11	0.93901	AP040X2-R00-LFO Q1	C00G01P-PMS-CC RA-B-10H	DG2B-GEN-LF-FTR RA-9-2H	IE-LOSP	*
677	350	7	1.30E-11	0.93941	1E4327NX-R00-LFO Q1	1E8422B-BCC-CC RA-B-10H	DG0-GEN-LF-FTR RA-9-2H	IE-LOSP	*
678	313	7	1.30E-11	0.93982	1E4327NX-R00-LFO Q1	1E8234B-BCC-CC RA-B-10H	DG0-GEN-LF-FTR RA-9-2H	IE-LOSP	*
679	305	7	1.30E-11	0.94023	1E4327NY-R00-LFO Q1	1E8472A-BCC-CC RA-B-10H	DG2A-GEN-LF-FTR RA-9-2H	IE-LOSP	*
680	346	7	1.30E-11	0.94064	1E4327NX-R00-LFO Q1	DAV-MOD-COM-CC RA-B-10H	DG0-GEN-LF-FTR RA-9-2H	IE-LOSP	*
681	304	7	1.30E-11	0.94105	AP040X2-R00-LFO Q1	CSCC002-PMS-CC RA-B-10H	DG0-GEN-LF-FTR RA-9-2H	IE-LOSP	*
682	315	7	1.30E-11	0.94146	AP039X2-R00-LFO Q1	DG0-GEN-LF-FTR RA-B-10H	DRV-MOD-COM-CC RA-9-2H	IE-LOSP	*
683	303	7	1.30E-11	0.94186	1E4327NX-R00-LFO Q1	1E8425B-BCC-CC RA-B-10H	DG0-GEN-LF-FTR RA-9-2H	IE-LOSP	*
684	343	7	1.30E-11	0.94227	1E8233A-BCC-AS Q1	AP039X2-R00-LFO RA-B-10H	DG2B-GEN-LF-FTR RA-9-2H	IE-LOSP	*
685	302	7	1.30E-11	0.94268	1E8433C-800-CC Q1	AP040X2-R00-LFO RA-B-10H	DG0-GEN-LF-FTR RA-9-2H	IE-LOSP	*
686	318	7	1.30E-11	0.94309	AP040X2-R00-LFO Q1	DG0-GEN-LF-FTR RA-B-10H	DGHV01CC-FMS-CC RA-9-2H	IE-LOSP	*
687	300	7	1.30E-11	0.94350	AP039X2-R00-LFO Q1	CSCC002-PMS-CC RA-B-10H	DG0-GEN-LF-FTR RA-9-2H	IE-LOSP	*
688	317	7	1.30E-11	0.94391	AP040X2-R00-LFO Q1	DG0-GEN-LF-FTR RA-B-10H	DRV-MOD-COM-CC RA-9-2H	IE-LOSP	*
689	357	7	1.30E-11	0.94431	1E4327NX-R00-LFO Q1	DG2A-GEN-LF-FTS RA-B-10H	IE-LOSP RA-9-10H	LCSC002A-P-UUM	*
690	356	7	1.30E-11	0.94472	1E4327NY-R00-LFO Q1	DG2A-GEN-LF-FTS RA-B-10H	IE-LOSP RA-9-10H	LCSC002A-P-UUM	*
691	355	7	1.30E-11	0.94513	AP039X2-R00-LFO Q1	DG2B-GEN-LF-FTS RA-B-10H	IE-LOSP RA-9-10H	LCSC002A-P-UUM	*
692	354	7	1.30E-11	0.94554	AP040X2-R00-LFO Q1	DG2B-GEN-LF-FTS RA-B-10H	IE-LOSP RA-9-10H	LCSC002A-P-UUM	*
693	359	7	1.24E-11	0.94592	DG0-GEN-LF-FTR RA-B-10H	DG2B-GEN-LF-FTR RA-9-2H	IE-LOSP SEVY03CB-FMS-CC	Q1	*
694	358	7	1.24E-11	0.94631	DG0-GEN-LF-FTR RA-B-10H	DG2A-GEN-LF-FTR RA-9-2H	IE-LOSP SMY02CC-FMS-CC	Q1	*
695	378	7	1.24E-11	0.94670	1E8425B-BCC-CC Q1	DG0-GEN-LF-FTR RA-B-10H	DG2B-GEN-LF-FTR RA-9-2H	IE-LOSP	*



722	377	7	1.24E-11	0.94709	1EB4228-BCC-CC	* DGD-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
723					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
724	376	7	1.24E-11	0.94748	1EB4235-B00-CC	* DGD-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
725					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
726	374	7	1.24E-11	0.94786	1EB2348-BCC-CC	* DGD-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
727					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
728	373	7	1.24E-11	0.94825	DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* DG2V03CB-FMS-CC	* IE-LOSP
729					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
730	372	7	1.24E-11	0.94864	DAV-M00-COM-CC	* DGD-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
731					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
732	371	7	1.24E-11	0.94903	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* HCSCC71C-FMS-LS	* IE-LOSP
733					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
734	370	7	1.24E-11	0.94942	1EB433C-B00-CC	* DGD-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP
735					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
736	369	7	1.24E-11	0.94980	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DGRV01CC-FMS-CC	* IE-LOSP
737					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
738	368	7	1.24E-11	0.95019	CSCC002-FMS-CC	* DGD-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP
739					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
740	367	7	1.24E-11	0.95058	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DHV-M00-COM-CC	* IE-LOSP
741					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
742	366	7	1.24E-11	0.95097	1EB432C-JC-CC	* DGD-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP
743					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
744	365	7	1.24E-11	0.95136	DGDV01CA-FMS-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
745					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
746	364	7	1.24E-11	0.95174	C0DG01P-PMS-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
747					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
748	375	7	1.24E-11	0.95213	C2DG01P-PMS-CC	* DGD-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
749					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
750	363	7	1.24E-11	0.95252	1EB233A-BCC-AS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
751					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
752	362	7	1.24E-11	0.95291	D0V-M00-COM-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
753					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
754	361	7	1.24E-11	0.95330	1EB413A-D00-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
755					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
756	360	7	1.24E-11	0.95368	1EB412A-BCC-CC	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
757					Q1 RA-8-10H	* RA-9-2H	* RA-9-2H	* IE-LOSP
758	382	6	1.17E-11	0.95405	HACTK9-ROO-LFO	* IE-T102	* LAKTORCA-ROO-LFO	* OPFAIL CDS-OE-8M
759					Q1 RA-1-1-10H	* IE-T198	* LAKTORCA-ROO-LFO	* OPFAILCDS-OE-8M
760	381	6	1.17E-11	0.95442	HACTK3-ROO-LFO	* RA-1-1-10H	* LAKTORCA-ROO-LFO	* OPFAILCDS-OE-8M
761					Q1 RA-1-1-10H	* IE-T102	* LAKTORCA-ROO-LFO	* OPFAILCDS-OE-8M
762	380	6	1.17E-11	0.95479	HACTK5-ROO-LFO	* RA-1-1-10H	* LAKTORCA-ROO-LFO	* OPFAILCDS-OE-8M
763					Q1 RA-1-1-10H	* IE-T198	* LAKTORCA-ROO-LFO	* OPFAILCDS-OE-8M
764	379	6	1.17E-11	0.95515	HACTK9-ROO-LFO	* RA-1-1-10H	* LAKTORCA-ROO-LFO	* OPFAILCDS-OE-8M
765					Q1 RA-1-1-10H	* IE-T102	* LAKTORCA-ROO-LFO	* OPFAILCDS-OE-8M
766	383	7	1.12E-11	0.95550	DG0V01CA-RUM-0	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP
767					Q1 RA-8-8H	* RA-9-8H	* RA-9-8H	* IE-LOSP
768	387	6	9.35E-12	0.95580	1E4327NY-ROO-LFO	* AP039X2-ROO-LFO	* C00G01P-FMS-LF	* IE-LOSP
769					Q1 RA-8-8H	* AP040X2-ROO-LFO	* C00G01P-FMS-LF	* IE-LOSP
770	386	6	9.35E-12	0.95609	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* C00G01P-FMS-LF	* IE-LOSP
771					Q1 RA-8-8H	* AP039X2-ROO-LFO	* C00G01P-FMS-LF	* IE-LOSP
772	385	6	9.35E-12	0.95638	1E4327NY-ROO-LFO	* AP039X2-ROO-LFO	* C00G01P-FMS-LF	* IE-LOSP
773					Q1 RA-8-8H	* AP039X2-ROO-LFO	* C00G01P-FMS-LF	* IE-LOSP

774	384	6	9.35E-12	0.95668	1E4327NX-R00-LFO Q1	AP040X2-R00-LFO RA-8-8H	AP040X2-R00-LFO RA-8-8H	C00001P-PMS-LF +	1E-LOSP	*
775										
776	389	7	9.11E-12	0.95696	DG0V01CA-RUM-0 Q1	DG2A-GEN-LF-FTR RA-8-10H	DG2A-GEN-LF-FTR RA-8-10H	DG2B-GEN-LF-FTS RA-9-2H	1E-LOSP	*
777										
778	388	7	9.11E-12	0.95725	DG0V01CA-RUM-0 Q1	DG2A-GEN-LF-FTS RA-8-10H	DG2A-GEN-LF-FTS RA-8-10H	DG2B-GEN-LF-FTR RA-9-2H	1E-LOSP	*
779										
780	393	7	8.93E-12	0.95753	AP039X2-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-8H	DG0V01CA-RUM-0 RA-8-8H	DG2B-GEN-LF-FTS RA-9-8H	1E-LOSP	*
781										
782	392	7	8.93E-12	0.95781	AP040X2-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-8H	DG0V01CA-RUM-0 RA-8-8H	DG2B-GEN-LF-FTS RA-9-8H	1E-LOSP	*
783										
784	391	7	8.93E-12	0.95809	1E4327NX-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-8H	DG0V01CA-RUM-0 RA-8-8H	DG2A-GEN-LF-FTS RA-9-8H	1E-LOSP	*
785										
786	390	7	8.93E-12	0.95837	1E4327NY-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-8H	DG0V01CA-RUM-0 RA-8-8H	DG2A-GEN-LF-FTS RA-9-8H	1E-LOSP	*
787										
788	396	7	8.77E-12	0.95864	DG0-GEN-LF-FTS Q1	DG2A-GEN-LF-FTS RA-8-8H	DG2A-GEN-LF-FTS RA-8-8H	HCSC001C-PMS-LF RA-9-8H	1E-LCSP	*
789										
790	397	7	8.77E-12	0.95892	C00001P-PMS-LF Q1	DG2A-GEN-LF-FTS RA-8-8H	DG2A-GEN-LF-FTS RA-8-8H	RA-9-8H	1E-LOSP	*
791										
792	395	7	8.77E-12	0.95920	CSCC002-PMS-LF Q1	DG0-GEN-LF-FTS RA-8-8H	DG0-GEN-LF-FTS RA-8-8H	DG2B-GEN-LF-FTS RA-9-8H	1E-LOSP	*
793										
794	394	7	8.77E-12	0.95947	C20001P-PMS-LF Q1	DG0-GEN-LF-FTS RA-8-8H	DG0-GEN-LF-FTS RA-8-8H	DG2B-GEN-LF-FTS RA-9-8H	1E-LOSP	*
795										
796	401	7	7.29E-12	0.95970	AP039X2-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-10H	DG0V01CA-RUM-0 RA-8-10H	DG2B-GEN-LF-FTR RA-9-2H	1E-LOSP	*
797										
798	400	7	7.29E-12	0.95993	AP040X2-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-10H	DG0V01CA-RUM-0 RA-8-10H	DG2B-GEN-LF-FTR RA-9-2H	1E-LOSP	*
799										
800	399	7	7.29E-12	0.96016	1E4327NX-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-10H	DG0V01CA-RUM-0 RA-8-10H	DG2A-GEN-LF-FTR RA-9-2H	1E-LOSP	*
801										
802	398	7	7.29E-12	0.96038	1E4327NY-R00-LFO Q1	DG0V01CA-RUM-0 RA-8-10H	DG0V01CA-RUM-0 RA-8-10H	DG2A-GEN-LF-FTR RA-9-2H	1E-LOSP	*
803										
804	410	7	7.16E-12	0.96061	C00001P-PMS-LF Q1	DG2A-GEN-LF-FTR RA-8-10H	DG2A-GEN-LF-FTR RA-8-10H	DG2B-GEN-LF-FTS RA-9-2H	1E-LOSP	*
805										
806	409	7	7.16E-12	0.96083	C20001P-PMS-LF Q1	DG0-GEN-LF-FTS RA-8-10H	DG0-GEN-LF-FTR RA-8-10H	DG2B-GEN-LF-FTS RA-9-2H	1E-LOSP	*
807										
808	408	7	7.16E-12	0.96106	DG0-GEN-LF-FTS Q1	DG2A-GEN-LF-FTR RA-8-10H	DG2A-GEN-LF-FTR RA-8-10H	HCSC001C-PMS-LF RA-9-2H	1E-LOSP	*
809										
810	407	7	7.16E-12	0.96128	CSCC002-PMS-LF Q1	DG0-GEN-LF-FTS RA-8-10H	DG0-GEN-LF-FTS RA-8-10H	DG2A-GEN-LF-FTR RA-9-2H	1E-LOSP	*
811										
812	406	7	7.16E-12	0.96151	C20001P-PMS-LF Q1	DG0-GEN-LF-FTS RA-8-10H	DG0-GEN-LF-FTS RA-8-10H	DG2B-GEN-LF-FTR RA-9-2H	1E-LOSP	*
813										
814	405	7	7.16E-12	0.96173	DG0-GEN-LF-FTR Q1	DG2A-GEN-LF-FTR RA-8-10H	DG2A-GEN-LF-FTS RA-8-10H	HCSC001C-PMS-LF RA-9-2H	1E-LOSP	*
815										
816	404	7	7.16E-12	0.96196	CSCC002-PMS-LF Q1	DG0-GEN-LF-FTR RA-8-10H	DG0-GEN-LF-FTR RA-8-10H	C32A-GEN-LF-FTS RA-9-2H	1E-LOSP	*
817										
818	411	7	7.16E-12	0.96218	C00001P-PMS-LF Q1	DG2A-GEN-LF-FTR RA-8-10H	DG2A-GEN-LF-FTR RA-8-10H	DG2B-GEN-LF-FTR RA-9-2H	1E-LOSP	*
819										
820	413	7	7.08E-12	0.96240	DG0-GEN-LF-FTS Q1	DG2A-GEN-LF-FTS RA-8-10H	DG2A-GEN-LF-FTS RA-8-10H	DG2B-GEN-CC-FTS RA-9-8H	1E-LOSP	*
821										
822	412	7	7.08E-12	0.96203	DG0-6-UUM Q1	DG2A-GEN-LF-FTS RA-8-8H	DG2A-GEN-LF-FTS RA-8-8H	DG2B-GEN-CC-FTS RA-9-8H	1E-LOSP	*
823										
824	417	7	7.08E-12	0.96285	DG0-GEN-CC-FTS Q1	DG2A-GEN-LF-FTS RA-8-8H	DG2A-GEN-LF-FTS RA-8-8H	DG2B-GEN-LF-FTS RA-9-8H	1E-LOSP	*
825										

826	416	7	7.08E-12	0.96307	DG0-GEN-LF-FTS	* DG2A-GEN-CC-FTS	* DG2B-G-UUM	* IE-LOSP	*
827					Q1	* RA-8-BH	* RA-9-BH	*	*
828	415	7	7.08E-12	0.96329	DG0-GEN-CC-FTS	* DG2A-G-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
829					Q1	* RA-8-BH	* RA-9-BH	*	*
830	414	7	7.08E-12	0.96351	DG0-G-UUM	* DG2A-GEN-CC-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
831					Q1	* RA-8-BH	* RA-9-BH	*	*
832	426	7	7.01E-12	0.96373	1E4327NY-ROO-LFO	* C2DG01P-PMS-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
833					Q1	* RA-8-BH	* RA-9-BH	*	*
834	425	7	7.01E-12	0.96395	AP039X2-ROO-LFO	* CSCC002-PMS-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
835					Q1	* RA-8-BH	* RA-9-BH	*	*
836	424	7	7.01E-12	0.96417	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* HCSC001C-PMS-LF	* IE-LOSP	*
837					Q1	* RA-8-BH	* RA-9-BH	*	*
838	423	7	7.01E-12	0.96440	AP040X2-ROO-LFO	* CSCC002-PMS-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
839					Q1	* RA-8-BH	* RA-9-BH	*	*
840	422	7	7.01E-12	0.96462	AP039X2-ROO-LFO	* C0G...P-PMS-LF	* DG2B-GEN-LF-FTS	* IE-LOSP	*
841					Q1	* RA-8-BH	* RA-9-BH	*	*
842	421	7	7.01E-12	0.96484	1E4327NX-ROO-LFO	* C0DG01P-PMS-LF	* DG2A-GEN-LF-FTS	* IE-LOSP	*
843					Q1	* RA-8-BH	* RA-9-BH	*	*
844	420	7	7.01E-12	0.96506	AP039X2-ROO-LFO	* DG0-GEN-LF-FTS	* HCSC001C-PMS-LF	* IE-LOSP	*
845					Q1	* RA-8-BH	* RA-9-BH	*	*
846	419	7	7.01E-12	0.96528	1E4327NY-ROO-LFO	* C0DG01P-PMS-LF	* DG2A-GEN-LF-FTS	* IE-LOSP	*
847					Q1	* RA-8-BH	* RA-9-BH	*	*
848	418	7	7.01E-12	0.96550	AP040X2-ROO-LFO	* C0DG01P-PMS-LF	* DG2B-GEN-LF-FTS	* IE-LOSP	*
849					Q1	* RA-8-BH	* RA-9-BH	*	*
850	427	7	7.01E-12	0.96572	1E4327NX-ROO-LFO	* C2DG01P-PMS-LF	* DG0-GEN-LF-FTS	* IE-LOSP	*
851					Q1	* RA-8-BH	* RA-9-BH	*	*
852	428	7	6.92E-12	0.96593	DG0V01CA-RUM-Q	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
853					Q1	* RA-8-10H	* RA-9-2H	*	*
854	403	7	6.70E-12	0.96614	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	* Q1	*
855					RA-8-BH	* RA-9-BH	* SWVY02AX-ACX-LF1	*	*
856	402	7	6.70E-12	0.96635	DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	* Q1	*
857					RA-8-BH	* RA-9-BH	* SEVY03AX-ACX-LF1	*	*
858	437	7	5.78E-12	0.96653	DG0-GEN-CC-FTS	* DG2A-G-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
859					Q1	* RA-8-10H	* RA-9-2H	*	*
860	436	7	5.78E-12	0.96672	DG0-GEN-CC-FTS	* DG2A-GEN-LF-FTR	* DG2B-G-UUM	* IE-LOSP	*
861					Q1	* RA-8-10H	* RA-9-2H	*	*
862	435	7	5.78E-12	0.96690	DG0-GEN-LF-FTR	* DG2A-GEN-CC-FTS	* DG2B-G-UUM	* IE-LOSP	*
863					Q1	* RA-8-10H	* RA-9-2H	*	*
864	433	7	5.78E-12	0.96708	DG0-G-UUM	* DG2A-GEN-CC-FTS	* DG2B-GEN-LF-FTR	* IE-LOSP	*
865					Q1	* RA-8-10H	* RA-9-2H	*	*
866	438	7	5.78E-12	0.96726	DG0-G-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTS	* IE-LOSP	*
867					Q1	* RA-8-10H	* RA-9-2H	*	*
868	434	7	5.78E-12	0.96744	DG0-GEN-LF-FTR	* DG2A-G-UUM	* DG2B-GEN-CC-FTS	* IE-LOSP	*
869					Q1	* RA-8-10H	* RA-9-2H	*	*
870	442	7	5.75E-12	0.96762	DG0-GEN-LF-FTS	* DG2A-GEN-CC-FTR	* DG2B-G-UUM	* IE-LOSP	*
871					Q1	* RA-8-10H	* RA-9-2H	*	*
872	439	7	5.75E-12	0.96780	DG0-GEN-CC-FTR	* DG2A-GEN-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
873					Q1	* RA-8-10H	* RA-9-2H	*	*
874	441	7	5.75E-12	0.96798	DG0-G-UUM	* DG2A-GEN-LF-FTS	* DG2B-GEN-CC-FTR	* IE-LOSP	*
875					Q1	* RA-8-10H	* RA-9-2H	*	*
876	440	7	5.75E-12	0.96816	DG0-GEN-LF-FTS	* DG2A-G-UUM	* DG2B-GEN-CC-FTR	* IE-LOSP	*
877					Q1	* RA-8-10H	* RA-9-2H	*	*



930	429	7	5.47E-12	0.97297	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP	Q1
931					RA-9-2H	SEVY03AX-ACK-LFI		
932	469	7	5.44E-12	0.97314	C2D001P-PMS-LF	DG2B-GEN-LF-FTR	1E-LOSP	
933					Q1	RA-9-2H		
934	468	7	5.44E-12	0.97331	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	1E-LOSP	
935					Q1	RA-9-2H		
936	467	7	5.44E-12	0.97348	CSCC002-PMS-LF	DG0-GEN-LF-FTR	1E-LOSP	
937					Q1	RA-9-2H		
938	466	7	5.44E-12	0.97365	CDD001P-PMS-LF	DG2A-GEN-LF-FTR	1E-LOSP	
939					Q1	RA-9-2H		
940	475	7	4.68E-12	0.97360	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	
941					Q1	RA-9-2H		
942	474	7	4.68E-12	0.97395	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	
943					Q1	RA-9-2H		
944	473	7	4.68E-12	0.97409	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP	
945					Q1	RA-9-2H		
946	472	7	4.68E-12	0.97424	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	1E-LOSP	
947					Q1	RA-9-2H		
948	471	7	4.68E-12	0.97439	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP	
949					Q1	RA-9-2H		
950	470	7	4.68E-12	0.97453	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP	
951					Q1	RA-9-2H		
952	477	7	4.62E-12	0.97468	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP	
953					Q1	RA-9-2H		
954	476	7	4.62E-12	0.97482	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	
955					Q1	RA-9-2H		
956	482	7	4.62E-12	0.97497	CDD001F-PLG-LF	DG2A-GEN-LF-FTS	1E-LOSP	
957					Q1	RA-9-2H		
958	481	7	4.62E-12	0.97511	DG0V01FX-KLN-LFB	DG2A-GEN-LF-FTS	1E-LOSP	
959					Q1	RA-9-2H		
960	480	7	4.62E-12	0.97526	CSC0300-PLG-LF	DG0-GEN-LF-FTS	1E-LOSP	
961					Q1	RA-9-2H		
962	479	7	4.62E-12	0.97541	C2D001F-PLG-LF	DG0-GEN-LF-FTS	1E-LOSP	
963					Q1	RA-9-2H		
964	478	7	4.62E-12	0.97555	1EX18ARC-R00-LFO	DG0-GEN-LF-FTS	1E-LOSP	
965					Q1	RA-9-2H		
966	484	7	4.60E-12	0.97569	1EX327NX-R00-LFO	DG0-GEN-CC-FTR	1E-LOSP	
967					Q1	RA-9-2H		
968	485	7	4.60E-12	0.97584	1EX327NY-R00-LFO	DG0-GEN-CC-FTR	1E-LOSP	
969					Q1	RA-9-2H		
970	484	7	4.60E-12	0.97598	AP039X2-R00-LFO	DG0-GEN-CC-FTR	1E-LOSP	
971					Q1	RA-9-2H		
972	483	7	4.60E-12	0.97613	AP040X2-R00-LFO	DG0-GEN-CC-FTR	1E-LOSP	
973					Q1	RA-9-2H		
974	490	7	4.60E-12	0.97627	1EX327NX-R00-LFO	DG0-G-UUM	1E-LOSP	
975					Q1	RA-9-2H		
976	489	7	4.60E-12	0.97642	1EX327NY-R00-LFO	DG0-G-UUM	1E-LOSP	
977					Q1	RA-9-2H		
978	488	7	4.60E-12	0.97656	AP039X2-R00-LFO	DG0-G-UUM	1E-LOSP	
979					Q1	RA-9-2H		
980	487	7	4.60E-12	0.97671	AP040X2-R00-LFO	DG0-G-UUM	1E-LOSP	
981					Q1	RA-9-2H		

982	495	7	4.59E-12	0.97685	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* EE-C2DG01F-PLG	* IE-LOSP	*
983					Q1	* RA-8-BH	* RA-9-BH	+	
984	494	7	4.59E-12	0.97699	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* EE-CSC0300-PLG	* IE-LOSP	*
985					Q1	* RA-8-BH	* RA-9-BH	+	
986	493	7	4.59E-12	0.97714	AP039X2-ROO-LFO	* DG2B-GEN-LF-FTS	* EE-C0DG01F-PLG	* IE-LOSP	*
987					Q1	* RA-8-BH	* RA-9-BH	+	
988	492	7	4.59E-12	0.97728	AP040X2-ROO-LFO	* DG2B-GEN-LF-FTS	* EE-C0DG01F-PLG	* IE-LOSP	*
989					Q1	* RA-8-BH	* RA-9-BH	+	
990	491	7	4.59E-12	0.97743	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* EE-C2DG01F-PLG	* IE-LOSP	*
991					Q1	* RA-8-BH	* RA-9-BH	+	
992	501	7	4.37E-12	0.97756	DG0-G-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-CC-FTR	* IE-LOSP	*
993					Q1	* RA-8-10H	* RA-9-2H	+	
994	500	7	4.37E-12	0.97770	DG0-GEN-CC-FTR	* DG2A-GEN-LF-FTR	* DG2B-G-UUM	* IE-LOSP	*
995					Q1	* RA-8-10H	* RA-9-2H	+	
996	499	7	4.37E-12	0.97784	DG0-GEN-LF-FTR	* DG2A-GEN-CC-FTR	* DG2B-G-UUM	* IE-LOSP	*
997					Q1	* RA-8-10H	* RA-9-2H	+	
998	498	7	4.37E-12	0.97797	DG0-GEN-LF-FTR	* DG2A-G-UUM	* DG2B-GEN-CC-FTR	* IE-LOSP	*
999					Q1	* RA-8-10H	* RA-9-2H	+	
1000	503	7	4.37E-12	0.97811	DG0-GEN-CC-FTR	* DG2A-G-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1001					Q1	* RA-8-10H	* RA-9-2H	+	
1002	502	7	4.37E-12	0.97825	DG0-G-UUM	* DG2A-GEN-CC-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	*
1003					Q1	* RA-8-10H	* RA-9-2H	+	
1004	506	7	4.36E-12	0.97839	DG0-GEN-LF-FTS	* DG2A-GEN-CC-FTS	* DG2B-GEN-CC-FTS	* IE-LOSP	*
1005					Q1	* RA-8-BH	* RA-9-BH	+	
1006	505	7	4.36E-12	0.97852	DG0-GEN-CC-FTS	* DG2A-GEN-CC-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1007					Q1	* RA-8-BH	* RA-9-BH	+	
1008	504	7	4.36E-12	0.97866	DG0-GEN-CC-FTS	* DG2A-GEN-LF-FTS	* DG2B-GEN-CC-FTS	* IE-LOSP	*
1009					Q1	* RA-8-BH	* RA-9-BH	+	
1010	511	7	4.30E-12	0.97880	DG0V01CA-FMS-LF	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
1011					Q1	* RA-8-BH	* RA-9-BH	+	
1012	510	7	4.30E-12	0.97893	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DGHV01CC-FMS-LF	* IE-LOSP	*
1013					Q1	* RA-8-BH	* RA-9-BH	+	
1014	509	7	4.30E-12	0.97907	DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* DG2V03CB-FMS-LF	* IE-LOSP	*
1015					Q1	* RA-8-BH	* RA-9-BH	+	
1016	508	7	4.30E-12	0.97920	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* IE-LOSP	* Q1	*
1017					RA-8-BH	* RA-9-BH	* SWVY02CC-FMS-LF	+	
1018	507	7	4.30E-12	0.97934	DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	* Q1	*
1019					RA-8-BH	* RA-9-BH	* SEVY03CB-FMS-LF	+	
1020	497	7	4.15E-12	0.97947	DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* IE-LOSP	* Q1	*
1021					RA-8-10H	* RA-9-2H	* SEVY03AX-ACX-LFI	+	
1022	496	7	4.15E-12	0.97960	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* IE-LOSP	* Q1	*
1023					RA-8-10H	* RA-9-2H	* SWVY02AX-ACX-LFI	+	
1024	523	8	3.99E-12	0.97972	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* EE-CST-LVL	* HCSF015C-VCC-LF	*
1025					IE-LOSP	* Q1	* RA-8-BH	* RA-9-BH	+
1026	521	7	3.99E-12	0.97985	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DGHV02YC-M-UUM	* IE-LOSP	*
1027					Q1	* RA-8-BH	* RA-9-BH	+	
1028	520	7	3.99E-12	0.97997	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DGHV01CC-F-UUM	* IE-LOSP	*
1029					Q1	* RA-8-BH	* RA-9-BH	+	
1030	519	7	3.99E-12	0.98010	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DGHV03YC-M-UUM	* IE-LOSP	*
1031					Q1	* RA-8-BH	* RA-9-BH	+	
1032	518	7	3.99E-12	0.98022	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTS	* DGHV01YC-M-UUM	* IE-LOSP	*
1033					Q1	* RA-8-BH	* RA-9-BH	+	

1034	517	7	3.99E-12	0.98035	DG0-GEN-LF-FTS Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	HCSF004C-VCC-LF RA-9-8H	IE-LOSP	*
1035	515	7	3.99E-12	0.98047	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-B-8H	DG2B-GEN-LF-FTS RA-9-8H	DG2V101B-M-UUM RA-9-8H	IE-LOSP	*
1036	514	7	3.99E-12	0.98060	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-B-8H	DG2B-GEN-LF-FTS RA-9-8H	DG2V091B-M-UUM RA-9-8H	IE-LOSP	*
1037	513	7	3.99E-12	0.98072	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-B-8H	DG2B-GEN-LF-FTS RA-9-8H	DG2V111B-M-UUM RA-9-8H	IE-LOSP	*
1038	512	7	3.99E-12	0.98085	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-B-8H	DG2B-GEN-LF-FTS RA-9-8H	DG2V03C8-F-UUM RA-9-8H	IE-LOSP	*
1039	538	7	3.99E-12	0.98097	1EB412A-BCC-LF Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1040	537	7	3.99E-12	0.98110	DG0V02YA-M-UUM Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1041	536	7	3.99E-12	0.98122	1EB233A-BCC-LF Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1042	534	7	3.99E-12	0.98135	1EB413A-B00-LF Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1043	533	7	3.99E-12	0.98147	DG0V03YA-M-UUM Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1044	532	7	3.99E-12	0.98160	DG0V01CA-F-UUM Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1045	531	7	3.99E-12	0.98172	1EB433C-B00-LF Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2A-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1046	530	7	3.99E-12	0.98185	CSC02K16-R00-LFO Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2A-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1047	529	7	3.99E-12	0.98197	1EB432C-BCC-LF Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2A-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1048	528	7	3.99E-12	0.98210	1EB423B-B00-LF Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2A-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1049	527	7	3.99E-12	0.98222	1EB425B-BCC-LF Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1050	526	7	3.99E-12	0.98235	1EB422B-BCC-LF Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1051	535	7	3.99E-12	0.98247	DG0V01YA-M-UUM Q1	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1052	525	7	3.99E-12	0.98260	2DG1PK19-R00-LFO Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1053	524	7	3.99E-12	0.98272	1EB234B-BCC-LF Q1	DG0-GEN-LF-FTS RA-B-8H	DG0-GEN-LF-FTS RA-9-8H	DG2B-GEN-LF-FTS RA-9-8H	IE-LOSP	*
1054	522	7	3.99E-12	0.98285	DG0-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-B-8H	DG2A-GEN-LF-FTS RA-9-8H	IE-LOSP	Q1	*
1055	516	7	3.99E-12	0.98297	DG0-GEN-LF-FTS RA-B-8H	DG2B-GEN-LF-FTS RA-B-8H	DG2B-GEN-LF-FTS RA-9-8H	SEVY02CC-F-UUM RA-9-8H	Q1	*
1056	527	7	3.77E-12	0.98309	C00G01F-PLG-LF Q1	DG2A-GEN-LF-FTR RA-B-10H	DG2A-GEN-LF-FTS RA-9-2H	SEVY03C8-F-UUM RA-9-2H	IE-LOSP	*
1057	551	7	3.77E-12	0.98321	DG0V01FX-KLN-LFB Q1	DG2A-GEN-LF-FTR RA-B-10H	DG2A-GEN-LF-FTS RA-9-2H	DG2B-GEN-LF-FTS RA-9-2H	IE-LOSP	*
1058	549	7	3.77E-12	0.98333	C20G01F-PLG-LF Q1	DG0-GEN-LF-FTR RA-S-10H	DG0-GEN-LF-FTS RA-9-2H	DG2B-GEN-LF-FTS RA-9-2H	IE-LOSP	*
1059	548	7	3.77E-12	0.98345	1EK16ARC-R00-LFO Q1	DG0-GEN-LF-FTR RA-B-10H	DG0-GEN-LF-FTS RA-9-2H	DG2B-GEN-LF-FTS RA-9-2H	IE-LOSP	*
1060	1070									
1061	1071									
1062	1072									
1063	1073									
1064	1074									
1065	1075									
1066	1076									
1067	1077									
1068	1078									
1069	1079									
1070	1080									
1071	1081									
1072	1082									
1073	1083									
1074	1084									
1075	1085									

1086	539	7	3.77E-12	0.98356	CSCD300-PLG-LF	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	IE-LOSP	*
1087	550	7	3.77E-12	0.98368	DG0-GEN-LF-FTR	RA-9-2H	RA-9-2H	IE-LOSP	*
1088	547	7	3.77E-12	0.98390	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	IE-LOSP	*
1089	546	7	3.77E-12	0.98392	CSCD300-PLG-LF	RA-9-2H	RA-9-2H	IE-LOSP	*
1092	545	7	3.77E-12	0.98404	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
1094	544	7	3.77E-12	0.98416	DG0-GEN-LF-FTS	RA-9-2H	RA-9-2H	IE-LOSP	*
1095	543	7	3.77E-12	0.98416	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
1096	542	7	3.77E-12	0.98439	DG0-GEN-LF-FTS	RA-9-2H	RA-9-2H	IE-LOSP	*
1097	541	7	3.77E-12	0.98451	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	DG2A-GEN-LF-FTR	IE-LOSP	*
1098	540	7	3.77E-12	0.98463	DG0-GEN-LF-FTS	RA-9-2H	RA-9-2H	IE-LOSP	*
1099	557	7	3.75E-12	0.98475	1E4327NK-R00-LFO	DG0-GEN-LF-FTR	DG0-GEN-LF-FTR	IE-LOSP	*
1100	556	7	3.75E-12	0.98487	1E4327NY-R00-LFO	RA-9-2H	RA-9-2H	IE-LOSP	*
1101	555	7	3.75E-12	0.98498	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG0-GEN-LF-FTR	IE-LOSP	*
1102	554	7	3.75E-12	0.98510	AP040X2-R00-LFO	RA-9-2H	RA-9-2H	IE-LOSP	*
1103	553	7	3.75E-12	0.98522	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG0-GEN-LF-FTR	IE-LOSP	*
1104	560	7	3.56E-12	0.98533	DG0-GEN-CC-FTS	RA-9-2H	RA-9-2H	IE-LOSP	*
1105	559	7	3.56E-12	0.98544	DG0-GEN-CC-FTS	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
1106	538	7	3.56E-12	0.98555	DG0-GEN-LF-FTR	RA-9-2H	RA-9-2H	IE-LOSP	*
1107	563	7	3.56E-12	0.98567	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
1108	562	7	3.56E-12	0.98578	DG0-GEN-LF-FTR	RA-9-2H	RA-9-2H	IE-LOSP	*
1109	561	7	3.56E-12	0.98589	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
1110	565	7	3.55E-12	0.98600	DG0-GEN-LF-FTS	RA-9-2H	RA-9-2H	IE-LOSP	*
1111	564	7	3.55E-12	0.98611	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
1112	569	7	3.55E-12	0.98622	1J0-GEN-LF-FTS	RA-9-2H	RA-9-2H	IE-LOSP	*
1113	568	7	3.55E-12	0.98633	DG0-GEN-CC-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP	*
1134	567	7	3.55E-12	0.98645	DG0-GEN-CC-FTS	RA-9-2H	RA-9-2H	IE-LOSP	*
1135									*
1136									*
1137									*



1138	566	7	3.55E-12	0.98656	DG0-GEN-CC-FTS	* DG2A-GEN-LF-FTS	* DG2B-GEN-CC-FTR	* 1E-LOSP	*
1139					Q1	* RA-8-10H	* RA-9-2H	+	
1140	579	7	3.51E-12	0.98667	DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	* Q1	*
1141					RA-8-10H	* RA-9-2H	* SEVY03CB-FMS-LF	+	
1142	570	7	3.51E-12	0.98678	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP	* Q1	*
1143					RA-8-10H	* RA-9-2H	* SWY02CC-FMS-LF	+	
1144	577	7	3.51E-12	0.98689	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP	* Q1	*
1145					RA-8-10H	* RA-9-2H	* SWY02CC-FMS-LF	+	
1146	576	7	3.51E-12	0.98700	DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	* Q1	*
1147					RA-8-10H	* RA-9-2H	* SEVY03CB-FMS-LF	+	
1148	575	7	3.51E-12	0.98711	DG0V01CA-FMS-LF	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1149					Q1	* RA-8-10H	* RA-9-2H	+	
1150	574	7	3.51E-12	0.98722	DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* DG2V03CB-FMS-LF	* 1E-LOSP	*
1151					Q1	* RA-8-10H	* RA-9-2H	+	
1152	573	7	3.51E-12	0.98733	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DGHV01CC-FMS-LF	* 1E-LOSP	*
1153					Q1	* RA-8-10H	* RA-9-2H	+	
1154	572	7	3.51E-12	0.98744	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* DGHV01CC-FMS-LF	* 1E-LOSP	*
1155					Q1	* RA-8-10H	* RA-9-2H	+	
1156	571	7	3.51E-12	0.98755	DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* DG2V03CB-FMS-LF	* 1E-LOSP	*
1157					Q1	* RA-8-10H	* RA-9-2H	+	
1158	570	7	3.51E-12	0.98766	DG0V01CA-FMS-LF	* DG2A-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
1159					Q1	* RA-8-10H	* RA-9-2H	+	
1160	583	7	3.49E-12	0.98777	1E4327NX-ROO-LFO	* DG0-GEN-CC-FTS	* DG2A-GEN-CC-FTS	* 1E-LOSP	*
1161					Q1	* RA-8-8H	* RA-9-8H	+	
1162	582	7	3.49E-12	0.98788	1E4327NY-ROO-LFO	* DG0-GEN-CC-FTS	* DG2A-GEN-CC-FTS	* 1E-LOSP	*
1163					Q1	* RA-8-8H	* RA-9-8H	+	
1164	581	7	3.49E-12	0.98799	AP039X2-ROO-LFO	* DG0-GEN-CC-FTS	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
1165					Q1	* RA-8-8H	* RA-9-8H	+	
1166	580	7	3.49E-12	0.98810	AP040X2-ROO-LFO	* DG0-GEN-CC-FTS	* DG2B-GEN-CC-FTS	* 1E-LOSP	*
1167					Q1	* RA-8-8H	* RA-9-8H	+	
1168	598	7	3.25E-12	0.98820	DG0V01YA-M-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1169					Q1	* RA-8-10H	* RA-9-2H	+	
1170	597	7	3.25E-12	0.98830	1EB413A-BOO-LF	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1171					Q1	* RA-8-10H	* RA-9-2H	+	
1172	596	7	3.25E-12	0.98840	DG0V03YA-M-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1173					Q1	* RA-8-10H	* RA-9-2H	+	
1174	595	7	3.25E-12	0.98851	DG0V01CA-F-UUM	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1175					Q1	* RA-8-10H	* RA-9-2H	+	
1176	594	7	3.25E-12	0.98861	1EB423B-BOO-LF	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1177					Q1	* RA-8-10H	* RA-9-2H	+	
1178	593	7	3.25E-12	0.98871	1EB425B-BCC-LF	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1179					Q1	* RA-8-10H	* RA-9-2H	+	
1180	592	7	3.25E-12	0.98881	1EB422B-BCC-LF	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1181					Q1	* RA-8-10H	* RA-9-2H	+	
1182	591	7	3.25E-12	0.98891	2DG1PK18-ROO-LFO	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1183					Q1	* RA-8-10H	* RA-9-2H	+	
1184	590	7	3.25E-12	0.98902	1EB234B-BCC-LF	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
1185					Q1	* RA-8-10H	* RA-9-2H	+	
1186	539	7	3.25E-12	0.98912	1FB433C-BOO-LF	* DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
1187					Q1	* RA-8-10H	* RA-9-2H	+	
1188	588	7	3.25E-12	0.98922	CSC02K18-ROO-LFO	* DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTS	* 1E-LOSP	*
1189					Q1	* RA-8-10H	* RA-9-2H	+	

1190	587	7	3.25E-12	0.98932	1EB432E-BCC-LF	DG0-GEN-LF-FTR	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTS	1E-LOSP	*
1191					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1192	586	7	3.25E-12	0.98943	1EB412A-BCC-LF	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	*
1193					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1194	585	7	3.25E-12	0.98953	DG0V02YA-M-UJM	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	*
1195					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1196	584	7	3.25E-12	0.98963	1EB233A-BCC-LF	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	*
1197					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1198	631	7	3.25E-12	0.98973	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP	1E-LOSP	Q1	*
1199					RA-8-10H	RA-9-2H	SEV03CB-F-UJM	SEV03CB-F-UJM		*
1200	636	7	3.25E-12	0.98983	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP	1E-LOSP	Q1	*
1201					RA-8-10H	RA-9-2H	SMV02CC-F-UJM	SMV02CC-F-UJM		*
1202	634	7	3.25E-12	0.98994	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP	1E-LOSP	Q1	*
1203					RA-8-10H	RA-9-2H	SEV03CB-F-UJM	SEV03CB-F-UJM		*
1204	633	7	3.25E-12	0.99004	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	DG2V10YB-M-UJM	DG2V10YB-M-UJM	1E-LOSP	*
1205					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1206	632	7	3.25E-12	0.99014	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2V02YB-M-UJM	DG2V02YB-M-UJM	1E-LOSP	*
1207					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1208	630	7	3.25E-12	0.99024	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2V03CB-F-UJM	DG2V03CB-F-UJM	1E-LOSP	*
1209					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1210	629	8	3.25E-12	0.99034	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	EE-CST-LVL	EE-CST-LVL	HCSF013C-VCC-LF	*
1211					1E-LOSP	Q1	RA-8-10H	RA-8-10H	RA-9-2H	*
1212	628	8	3.25E-12	0.99045	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	EE-CST-LVL	EE-CST-LVL	HCSF013E-VCC-LF	*
1213					1E-LOSP	Q1	RA-8-10H	RA-8-10H	RA-9-2H	*
1214	627	7	3.25E-12	0.99055	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DGHV02YC-M-UJM	DGHV02YC-M-UJM	1E-LOSP	*
1215					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1216	626	7	3.25E-12	0.99065	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DGHV01CC-F-UJM	DGHV01CC-F-UJM	1E-LOSP	*
1217					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1218	625	7	3.25E-12	0.99075	1EB433C-800-LF	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	1E-LOSP	*
1219					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1220	624	7	3.25E-12	0.99085	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DGHV03YC-M-UJM	DGHV03YC-M-UJM	1E-LOSP	*
1221					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1222	622	7	3.25E-12	0.99096	1EB432C-BCC-LF	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	1E-LOSP	*
1223					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1224	621	7	3.25E-12	0.99106	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DGHV01YC-M-UJM	DGHV01YC-M-UJM	1E-LOSP	*
1225					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1226	620	7	3.25E-12	0.99116	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	HCSF004C-VCC-LF	HCSF004C-VCC-LF	1E-LOSP	*
1227					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1228	619	7	3.25E-12	0.99126	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DGHV02YC-M-UJM	DGHV02YC-M-UJM	1E-LOSP	*
1229					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1230	618	7	3.25E-12	0.99137	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DGHV01CC-F-UJM	DGHV01CC-F-UJM	1E-LOSP	*
1231					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1232	617	7	3.25E-12	0.99147	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DGHV03YC-M-UJM	DGHV03YC-M-UJM	1E-LOSP	*
1233					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1234	616	7	3.25E-12	0.99157	1EB412A-BCC-LF	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP	*
1235					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1236	615	7	3.25E-12	0.99167	DG0V02YA-M-UJM	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	1E-LOSP	*
1237					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*
1238	614	7	3.25E-12	0.99177	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DGHV01YC-M-UJM	DGHV01YC-M-UJM	1E-LOSP	*
1239					Q1	RA-8-10H	RA-9-2H	RA-9-2H		*

SEQUENCE TL97

TOP EVENT PDS-TL-SE08      CONTAINS    108 EVENTS IN    496 CUT SETS  
THE FREQUENCY OF TOP EVENT PDS-TL-SE08    IS    1.32E-07

DESCRIPTIVE STATISTICS FOR THE FREQUENCY OF TOP EVENT PDS-TL-SE08

N	300
MEAN	1.94E-07
STD DEV	6.45E-07
LOWER 5%	2.76E-09
LOWER 25%	1.33E-08
MEDIAN	4.01E-08
UPPER 25%	1.25E-07
UPPER 5%	5.62E-07

90% UNCERTAINTY INTERVAL FOR TOP EVENT FREQUENCY (INNERMOST BRACKETS DENOTE INTERQUARTILE RANGE,  
ASTERISK DENOTES MEDIAN, N DENOTES NOMINAL VALUE AND M DENOTES MEAN)

NOMENCLATURE:

PD = PARTIAL DERIVATIVE

TEF = FREQUENCY OF THE TOP EVENT

EV(J) = PROBABILITY OF EVENT J FOR BASE EVENTS

= FREQUENCY OF EVENT J FOR INITIATING EVENTS

MEASURES:

1. FOR BASE EVENTS AND INITIATING EVENTS:

RISK REDUCTION = PD x EV(J)  
= TEF - TEF(EVALUATED WITH EV(J) = 0)

2. FOR BASE EVENTS ONLY:

RISK INCREASE = PD - RISK REDUCTION  
= PD x (1 - EV(J))  
= TEF(EVALUATED WITH EV(J) = 1) - TEF

SEQUENCE TL97  
 RISK REDUCTION BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PRUB (RANK)	RISK		
			REDUCTION (RANK)	LOWER 5%	UPPER 5%
Q1	495	8.20E-07 ( 31.0)	1.31E-07 ( 1.0)	2.75E-09	5.61E-07
RA-B-48M	122	3.00E-01 ( 14.0)	1.09E-07 ( 2.0)	1.99E-09	4.57E-07
RC1C0MCOOL-FLAG	388	1.00E-00 ( 2.5)	1.01E-07 ( 3.0)		
DGCOOL-PMS-CM	5	2.50E-03 ( 53.0)	8.22E-08 ( 4.5)	6.90E-10	2.99E-07
DGCOOL-BETA	5	1.10E-01 ( 15.0)	8.22E-08 ( 4.5)	6.90E-10	2.99E-07
RA-9-48M	114	9.40E-01 ( 6.0)	3.98E-08 ( 6.0)	2.61E-10	2.54E-07
DGO-GEN-LF-FTS	167	2.50E-02 ( 18.5)	3.62E-08 ( 7.0)	2.52E-10	2.74E-07
AP040X2-ROO-LFO	118	2.00E-02 ( 23.0)	2.67E-08 ( 8.0)	9.96E-11	1.56E-07
DG2B-GEN-LF-FTS	132	2.50E-02 ( 18.5)	1.78E-08 ( 9.0)	2.09E-10	1.09E-07
OPFAILS-REOPEN	28	1.00E+00 ( 2.5)	1.60E-08 ( 10.0)		
KA-NONE	3	1.00E+00 ( 2.5)	1.12E-08 ( 11.0)		
1E4327NY-ROO-LFO	55	2.00E-02 ( 23.0)	1.08E-08 ( 12.5)	1.81E-11	6.30E-08
1E4327WX-ROO-LFO	55	2.00E-02 ( 23.0)	1.78E-08 ( 12.5)	1.81E-11	6.30E-08
AP039X2-ROO-LFO	20	2.00E-02 ( 23.0)	8.39E-09 ( 14.0)	2.11E-11	5.79E-08
TSCD550PERCENT	1	5.00E-01 ( 8.5)	6.09E-09 ( 16.0)		
TSMF350PERCENT	1	5.00E-01 ( 8.5)	6.09E-09 ( 16.0)		
RA-3-12-48M	1	1.80E-02 ( 29.0)	6.09E-09 ( 16.0)	7.24E-12	1.29E-08
RA-9-2H	370	8.70E-01 ( 7.0)	5.37E-09 ( 18.5)	1.22E-11	2.90E-08
RA-B-10H	370	2.00E-02 ( 23.0)	5.77E-09 ( 18.5)	1.22E-11	2.90E-08
EE-MDC-1AS-A7-R	1	3.30E-01 ( 12.0)	3.72E-09 ( 21.0)		
EE-MDP-PSW-BC-R	1	3.30E-01 ( 12.0)	3.72E-09 ( 21.0)		
EL-MDC-1AS-CB-R	1	3.30E-01 ( 12.0)	3.72E-09 ( 21.0)		
DGX-GEN-CM-FTS	3	2.50E-02 ( 18.5)	2.96E-09 ( 24.0)	2.86E-11	1.11E-08
RA-15-48M	3	9.50E-01 ( 5.0)	2.96E-09 ( 24.0)	2.86E-11	1.11E-08
DG-FTS-BETA	3	1.20E-02 ( 30.0)	2.96E-09 ( 24.0)	2.86E-11	1.11E-08
DGO-GEN-LF-FTR	167	1.90E-02 ( 27.0)	2.77E-09 ( 26.0)	2.95E-12	1.63E-08
RC1C001X-TDP-LF	25	3.00E-02 ( 16.0)	2.53E-09 ( 27.0)	1.38E-11	8.97E-09
DG2A-GEN-LF-FTR	158	1.90E-02 ( 27.0)	2.22E-09 ( 28.0)	4.03E-12	1.79E-08
DGO-G-UUM	16	6.00E-03 ( 32.5)	2.09E-09 ( 29.0)	1.01E-11	1.45E-08
DG2B-GEN-LF-FTR	132	1.90E-02 ( 27.0)	1.69E-09 ( 30.0)	1.98E-12	1.18E-08
DGO-GEN-CC-FTS	18	3.70E-03 ( 34.5)	1.35E-09 ( 31.0)	1.61E-12	7.66E-09
C2DGO1P-P-UUM	8	3.00E-03 ( 37.5)	1.17E-09 ( 32.0)	3.69E-12	6.51E-09
SEVY03CB-FMS-CC	8	2.50E-03 ( 53.0)	9.73E-10 ( 35.0)	3.34E-12	5.66E-09
C2DGO1P-PMS-CC	8	2.50E-03 ( 53.0)	9.73E-10 ( 35.0)	3.34E-12	5.66E-09
1EB234B-BCC-CC	8	2.50E-03 ( 53.0)	9.73E-10 ( 35.0)	3.34E-12	5.66E-09
1EB425B-BCC-CC	8	2.50E-03 ( 53.0)	9.73E-10 ( 35.0)	3.34E-12	5.66E-09
DG2V03CB-FMS-CC	8	2.50E-03 ( 53.0)	9.73E-10 ( 35.0)	3.34E-12	5.66E-09
DG2B-G-UUM	12	6.00E-03 ( 32.5)	8.90E-10 ( 38.0)	8.31E-12	2.91E-09
Q2	1	9.40E-05 (105.0)	7.72E-10 ( 39.0)	8.61E-12	3.53E-09
DG2B-GEN-CC-FTS	14	3.70E-03 ( 34.5)	6.53E-10 ( 40.0)	1.38E-12	3.59E-09
1EB233A-BCC-AS	8	2.50E-03 ( 53.0)	6.76E-10 ( 41.0)	1.20E-12	2.53E-09
C2DGO1P-PMS-LF	12	1.10E-03 ( 66.5)	4.88E-10 ( 42.0)	3.51E-12	2.65E-09
CSCC002-P-UUM	4	3.00E-03 ( 37.5)	3.83E-10 ( 44.0)	6.86E-13	2.09E-09
C0DGO1P-P-UUM	4	3.00E-03 ( 37.5)	3.83E-10 ( 44.0)	6.86E-13	2.09E-09
HCSC001C-P-UUM	4	3.00E-03 ( 37.5)	3.83E-10 ( 44.0)	6.86E-13	2.09E-09

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CG0001P-PMS-LF	10	1.10E-03 ( 06.5)	3.60E-10 ( 46.0)	6.92E-13	2.87E-09
1E8412A-BCC-CC	6	2.50E-03 ( 53.0)	3.45E-10 ( 49.0)	6.67E-13	1.38E-09
D0V-M00-C0M-CC	6	2.50E-03 ( 53.0)	3.45E-10 ( 49.0)	6.67E-13	1.38E-09
CG0001P-FH-CC	6	2.50E-03 ( 53.0)	3.45E-10 ( 49.0)	6.67E-13	1.38E-09
CG0001CA-FMS-CC	6	2.50E-03 ( 53.0)	3.45E-10 ( 49.0)	6.67E-13	1.38E-09
1E8413A-B00-CC	6	2.50E-03 ( 53.0)	3.45E-10 ( 49.0)	6.67E-13	1.38E-09
EE-C20G01F-PLG	12	7.20E-04 ( 72.0)	3.20E-10 ( 52.0)	1.73E-12	1.48E-09
1E8433C-B00-CC	4	2.50E-03 ( 53.0)	3.19E-10 ( 56.0)	6.56E-13	1.30E-09
CSCC002-PMS-CC	4	2.50E-03 ( 53.0)	3.19E-10 ( 56.0)	6.56E-13	1.30E-09
1E8432C-BCC-CC	4	2.50E-03 ( 53.0)	3.19E-10 ( 56.0)	6.56E-13	1.30E-09
HCS001C-PMS-CS	4	2.50E-03 ( 53.0)	3.19E-10 ( 56.0)	6.56E-13	1.30E-09
D0V-M00-C0M-CC	4	2.50E-03 ( 53.0)	3.19E-10 ( 56.0)	6.56E-13	1.30E-09
D0R01CC-FMS-CC	4	2.50E-03 ( 53.0)	3.19E-10 ( 56.0)	6.56E-13	1.30E-09
SU0Y02CC-FMS-CC	4	2.50E-03 ( 53.0)	3.19E-10 ( 56.0)	6.56E-13	1.30E-09
DG2A-GEN-LF-FTS	8	2.50E-02 ( 18.5)	2.92E-10 ( 60.0)	4.70E-13	2.06E-09
1E8234B-BCC-LF	12	5.00E-04 ( 92.5)	2.79E-10 ( 61.0)	9.64E-13	1.21E-09
EE-S00G01F-PLG	10	7.20E-04 ( 72.0)	2.54E-10 ( 62.0)	4.87E-13	9.38E-10
EE-C500300-PLG	8	7.20E-04 ( 72.0)	2.51E-10 ( 63.0)	3.63E-13	9.36E-10
DG2V02FX-KLN-LFB	8	5.80E-04 ( 77.0)	2.26E-10 ( 64.5)	9.13E-13	1.07E-09
CG20G01F-PLG-LF	8	5.80E-04 ( 77.0)	2.26E-10 ( 64.5)	9.13E-13	1.07E-09
1E8425B-BCC-LF	8	5.00E-04 ( 92.5)	1.95E-10 ( 66.0)	5.86E-13	6.81E-10
DG0V01CA-RUM-0	6	1.40E-03 ( 64.0)	1.93E-10 ( 67.0)	2.31E-13	7.13E-10
DG2A-GEN-CC-FTR	24	2.80E-03 ( 41.0)	1.84E-10 ( 68.0)	4.43E-13	7.25E-10
SY-REGP-RCIC001X	1	2.50E-03 ( 53.0)	1.68E-10 ( 69.0)	8.52E-13	4.79E-10
DG0-GEN-CC-FTR	18	2.80E-03 ( 41.0)	1.49E-10 ( 70.0)	1.86E-13	1.15E-09
CSCC002-PMS-LF	6	1.10E-03 ( 66.5)	1.40E-10 ( 71.5)	4.42E-13	6.63E-10
HCS001C-PMS-LF	6	1.10E-03 ( 66.5)	1.40E-10 ( 71.5)	4.42E-13	6.63E-10
SEVP03AK-ACK-LF1	4	8.40E-04 ( 69.5)	1.32E-10 ( 73.0)	5.81E-13	7.96E-10
1E8233A-BCC-LF	6	5.00E-04 ( 92.5)	1.22E-10 ( 74.0)	1.66E-13	3.98E-10
DPFAIL-REOPN-20M	8	3.50E-01 ( 10.0)	9.98E-11 ( 75.0)	9.12E-13	5.33E-10
1E816ARC-R00-LFO	4	5.80E-04 ( 77.0)	9.09E-11 ( 76.0)	4.26E-13	5.51E-10
DG2B-GEN-CC-FTR	14	2.80E-03 ( 41.0)	8.93E-11 ( 77.0)	1.11E-13	4.81E-10
DG2V03CB-FMS-LF	4	5.40E-04 ( 82.0)	8.46E-11 ( 78.5)	1.69E-12	4.63E-10
SEVY03CB-FMS-LF	4	5.40E-04 ( 82.0)	8.46E-11 ( 78.5)	1.69E-12	4.63E-10
DG2V11YB-M-UM	4	5.00E-04 ( 92.5)	7.84E-11 ( 82.5)	2.14E-12	4.37E-10
DG2V10YB-M-UM	4	5.00E-04 ( 92.5)	7.84E-11 ( 82.5)	2.14E-12	4.37E-10
DG2V09YB-M-UM	4	5.00E-04 ( 92.5)	7.84E-11 ( 82.5)	2.14E-12	4.37E-10
DG2V03CB-F-UM	4	5.00E-04 ( 92.5)	7.84E-11 ( 82.5)	2.14E-12	4.37E-10
SVY03CB-F-UM	4	5.00E-04 ( 92.5)	7.84E-11 ( 82.5)	2.14E-12	4.37E-10
ZDG1PK1B-RCC-LFO	4	5.00E-04 ( 92.5)	7.84E-11 ( 82.5)	3.45E-13	4.98E-10
DG0V01FX-KLN-LFB	6	5.80E-04 ( 77.0)	7.41E-11 ( 86.5)	1.55E-13	2.80E-10
CG0001F-PLG-LF	6	5.80E-04 ( 77.0)	7.41E-11 ( 86.5)	1.55E-13	2.80E-10
DG0V01FX-KLN-LFB	4	5.80E-04 ( 77.0)	6.74E-11 ( 88.5)	7.66E-14	1.85E-10
CSCD300-PLG-LF	4	5.80E-04 ( 77.0)	6.74E-11 ( 88.5)	7.66E-14	1.85E-10
1E8413A-800-LF	4	5.00E-04 ( 92.5)	6.38E-11 ( 90.5)	9.45E-14	2.12E-10
1E3412A-BCC-LF	4	5.00E-04 ( 92.5)	6.38E-11 ( 90.5)	9.45E-14	2.12E-10
EE-CST-LVL	2	1.00E+00 ( 2.5)	5.81E-11 ( 94.0)		
1E8432C-BCC-LF	2	5.00E-04 ( 92.5)	5.81E-11 ( 94.0)	6.19E-14	1.74E-10
HCSF015C-VCC-LF	2	5.00E-04 ( 92.5)	5.81E-11 ( 94.0)	5.85E-14	2.28E-10
HCSF004C-VCC-LF	2	5.00E-04 ( 92.5)	5.81E-11 ( 94.0)	5.85E-14	2.28E-10
1E8433C-800-LF	2	5.00E-04 ( 92.5)	5.81E-11 ( 94.0)	6.19E-14	1.74E-10
DG2V10YB-M00-LF	4	3.00E-04 ( 103.0)	4.70E-11 ( 98.0)	7.90E-13	2.93E-10

DG2V09YB WCC-LF	4	3.00E-04	(103.0)	4.70E-11	(98.0)	7.90E-13	2.92E-10
DG2V11 B-WCC-LF	4	3.00E-04	(103.0)	4.70E-11	(98.0)	7.90E-13	2.92E-10
SWYD2AX-ACX-LFI	2	8.40E-04	(69.5)	9.62E-12	(100.0)	4.99E-15	5.41E-11
DGOV01CA-FMS-LF	2	5.40E-04	(82.0)	6.18E-12	(101.0)	1.27E-14	4.08E-11
DGOV02YA-M-UUM	2	5.00E-04	(92.5)	5.73E-12	(103.0)	1.08E-14	3.17E-11
DGOV01YA-M-UUM	2	5.00E-04	(92.5)	5.73E-12	(103.0)	1.08E-14	3.17E-11
DGOV01CA-F-UUM	2	5.00E-04	(92.5)	5.73E-12	(103.0)	1.08E-14	3.17E-11
OPFAIL-REOPN-1H	42	2.50E-03	(53.0)	3.51E-12	(105.0)	9.84E-16	1.54E-11

SEQUENCE T197  
RISK INCREASE BY BASE EVENT (WITH ASSOCIATED UNCERTAINTY INTERVALS)

BASE EVENT	OCCUR	PROB	(RANK)	RISK INCREASE (RANK)	LOWER 5%	UPPER 5%	
D8COOL-PMS-CM	5	2.50E-03	( 53.0)	3.28E-05	( 1.0)	2.08E-06	1.26E-04
G1	495	8.20E-03	( 31.0)	1.58E-05	( 2.0)	8.12E-07	7.50E-05
Q2	1	9.40E-05	(105.0)	8.21E-06	( 3.0)	6.64E-07	3.08E-05
D60-GEN-LF-FTS	167	2.50E-02	( 18.5)	1.41E-06	( 4.0)	2.06E-08	7.83E-06
AP04042-ROO-LFO	118	2.00E-02	( 23.0)	1.31E-06	( 5.0)	4.72E-08	6.70E-06
D828-GEN-LF-FTS	132	2.50E-02	( 18.5)	6.92E-07	( 6.0)	1.76E-08	2.73E-06
D8COOL-BETA	5	1.10E-01	( 15.0)	6.65E-07	( 7.0)	8.18E-09	2.61E-06
1E82348-BCC-LF	12	5.00E-04	( 92.5)	5.46E-07	( 8.0)	1.43E-08	2.92E-06
1E4327NK-ROO-LFO	55	2.00E-02	( 23.0)	5.27E-07	( 9.5)	1.21E-08	1.99E-06
1E4327NY-ROO-LFO	55	2.00E-02	( 23.0)	5.27E-07	( 9.5)	1.21E-08	1.99E-06
EE-C20G01F-PLG	12	7.20E-04	( 72.0)	4.44E-07	( 1.0)	1.10E-08	2.73E-06
C20G01P-PMS-LF	12	1.10E-03	( 66.5)	4.44E-07	( 1.0)	1.10E-08	2.73E-06
AP03942-ROO-LFO	20	2.00E-02	( 23.0)	4.11E-07	( 13.0)	1.10E-08	1.29E-06
1E84258-BCC-LF	8	5.00E-04	( 92.5)	3.89E-07	( 14.0)	9.21E-09	2.33E-06
C20G01F-PLG-LF	8	5.80E-04	( 77.0)	3.85E-07	( 15.5)	9.21E-09	2.33E-06
D62V02FX-KLN-LFB	8	5.80E-04	( 77.0)	3.89E-07	( 15.5)	9.21E-09	2.33E-06
D62V03CB-FMS-CC	8	2.50E-03	( 53.0)	3.88E-07	( 19.0)	9.16E-09	2.33E-06
C20G01P-PMS-CC	8	2.50E-03	( 53.0)	3.88E-07	( 19.0)	9.16E-09	2.33E-06
1E82348-BCC-CC	8	2.50E-03	( 53.0)	3.88E-07	( 19.0)	9.16E-09	2.33E-06
SEVY03CB-FMS-CC	8	2.50E-03	( 53.0)	3.88E-07	( 19.0)	9.16E-09	2.33E-06
1E84258-BCC-CC	8	2.50E-03	( 53.0)	3.88E-07	( 19.0)	9.16E-09	2.33E-06
C20G01P-P-UUM	8	3.00E-03	( 37.5)	3.63E-07	( 22.0)	9.09E-09	2.32E-06
D60-GEN-CC-FTS	18	3.70E-03	( 34.5)	3.60E-07	( 24.0)	3.82E-09	1.33E-06
EE-C20G01F-PLG	10	7.20E-04	( 72.0)	3.48E-07	( 25.0)	2.51E-09	1.30E-06
EE-CSC0300-PLG	8	7.20E-04	( 72.0)	3.48E-07	( 25.0)	2.51E-09	1.30E-06
D60-G-UUM	16	6.00E-03	( 32.5)	3.46E-07	( 26.0)	1.94E-09	2.35E-06
RA-3-12-03M	1	1.80E-02	( 29.0)	3.32E-07	( 27.0)	2.08E-09	1.09E-06
C20G01P-PMS-LF	10	1.10E-03	( 66.5)	3.27E-07	( 28.0)	1.68E-09	2.27E-06
RA-8-10H	370	2.10E-02	( 23.0)	2.63E-07	( 29.0)	8.58E-10	2.33E-06
KA-8-4RM	122	3.10E-01	( 14.0)	2.54E-07	( 30.0)	5.59E-09	1.14E-06
1E8233A-BCC-AS	8	2.0E-03	( 53.0)	2.54E-07	( 31.0)	2.55E-09	9.11E-07
1E8233A-BCC-LF	6	5.00E-04	( 92.5)	2.44E-07	( 32.0)	1.55E-09	1.04E-06
D6-FTS-BETA	3	1.20E-02	( 30.0)	2.44E-07	( 33.0)	4.48E-09	1.04E-06
D628-GEN-CC-FTS	14	3.70E-03	( 34.5)	1.76E-07	( 34.0)	1.98E-09	6.44E-07
D62V05YB-MCC-LF	4	3.00E-04	(103.0)	1.57E-07	( 36.0)	4.55E-09	8.89E-07
D62V10YB-MCC-LF	4	3.00E-04	(103.0)	1.57E-07	( 36.0)	4.55E-09	8.89E-07
D62V11YB-MCC-LF	4	3.00E-04	(103.0)	1.57E-07	( 36.0)	4.55E-09	8.89E-07
D62V11YB-M-UUM	4	5.00E-04	( 92.5)	1.57E-07	( 40.5)	4.55E-09	8.89E-07
D62V10YB-M-UUM	4	5.00E-04	( 92.5)	1.57E-07	( 40.5)	4.55E-09	8.89E-07
D62V11YB-M-UUM	4	5.00E-04	( 92.5)	1.57E-07	( 40.5)	4.55E-09	8.89E-07
D62V05YB-M-UUM	4	5.00E-04	( 92.5)	1.57E-07	( 40.5)	4.55E-09	8.89E-07
D62V03CB-F-UUM	4	5.00E-04	( 92.5)	1.57E-07	( 40.5)	4.55E-09	8.89E-07
SEVY03CB-F-UUM	4	5.00E-04	( 92.5)	1.57E-07	( 40.5)	4.55E-09	8.89E-07
D62V03CB-FMS-LF	4	5.40E-04	( 82.0)	1.57E-07	( 44.5)	4.55E-09	8.89E-07
SEVY03CB-FMS-LF	4	5.40E-04	( 82.0)	1.57E-07	( 44.5)	4.55E-09	8.89E-07

1EK1BARC-ROO-LFO	4	5.80E-04 ( 77.0)	1.57E-07 ( 46.0)	4.55E-09	8.89E-07
SEVY02AX-ACX-LFI	4	8.40E-04 ( 69.5)	1.57E-07 ( 47.0)	4.55E-09	8.89E-07
DG2B-G-UUM	12	6.00E-03 ( 32.5)	1.47E-07 ( 48.0)	1.67E-09	5.06E-07
DGO-GEN-LF-FTR	167	1.90E-02 ( 27.0)	1.43E-07 ( 49.0)	1.70E-09	7.25E-07
DGOV01CA-RUM-0	6	1.40E-03 ( 64.0)	1.38E-07 ( 50.0)	1.37E-09	5.01E-07
1EB412A-BCC-CC	6	2.50E-03 ( 53.0)	1.38E-07 ( 53.0)	1.37E-09	5.01E-07
DGOV01CA-FMS-CC	6	2.50E-03 ( 53.0)	1.38E-07 ( 53.0)	1.37E-09	5.01E-07
1EB413A-BOO-CC	6	2.50E-03 ( 53.0)	1.38E-07 ( 53.0)	1.37E-09	5.01E-07
CODG01P-PMS-CC	6	2.50E-03 ( 53.0)	1.38E-07 ( 53.0)	1.37E-09	5.01E-07
DOV-MOD-COM-CC	6	2.50E-03 ( 53.0)	1.38E-07 ( 53.0)	1.37E-09	5.01E-07
DGOV01FX-KLN-LFB	6	5.80E-04 ( 77.0)	1.28E-07 ( 56.5)	1.35E-09	4.55E-07
CODG01F-PLG-LF	6	5.80E-04 ( 77.0)	1.28E-07 ( 56.5)	1.35E-09	4.55E-07
1EB413A-BOO-LF	4	5.00E-04 ( 92.5)	1.28E-07 ( 58.5)	1.35E-09	4.55E-07
1EB412A-BCC-LF	4	5.00E-04 ( 92.5)	1.28E-07 ( 58.5)	1.35E-09	4.55E-07
CSCC002-PMC-LF	6	1.10E-03 ( 66.5)	1.28E-07 ( 60.5)	1.35E-09	4.55E-07
HCSC001C-PMS-LF	6	1.10E-03 ( 66.5)	1.28E-07 ( 60.5)	1.35E-09	4.55E-07
CSCC002-PMS-CC	4	2.50E-03 ( 53.0)	1.27E-07 ( 65.0)	1.35E-09	4.55E-07
1EB433C-BOO-CC	4	2.50E-03 ( 53.0)	1.27E-07 ( 65.0)	1.35E-09	4.55E-07
1EB432C-BCC-CC	4	2.50E-03 ( 53.0)	1.27E-07 ( 65.0)	1.35E-09	4.55E-07
SWVY02CC-FMS-CC	4	2.50E-03 ( 53.0)	1.27E-07 ( 65.0)	1.35E-09	4.55E-07
HCSC001C-PMS-CS	4	2.50E-03 ( 53.0)	1.27E-07 ( 65.0)	1.35E-09	4.55E-07
DHV-MOD-COM-CC	4	2.50E-03 ( 53.0)	1.27E-07 ( 65.0)	1.35E-09	4.55E-07
DGHV01CC-FMS-CC	4	2.50E-03 ( 53.0)	1.27E-07 ( 65.0)	1.35E-09	4.55E-07
CSCC002-P-UUM	4	3.00E-03 ( 37.5)	1.27E-07 ( 70.0)	1.34E-09	4.55E-07
CODG01P-P-UUM	4	3.00E-03 ( 37.5)	1.27E-07 ( 70.0)	1.34E-09	4.55E-07
HCSC001C-P-UUM	4	3.00E-03 ( 37.5)	1.27E-07 ( 70.0)	1.34E-09	4.55E-07
DGHV01FX-KLN-LFB	4	5.80E-04 ( 77.0)	1.16E-07 ( 72.5)	8.38E-10	4.35E-07
CSCD300-PLG-LF	4	5.80E-04 ( 77.0)	1.16E-07 ( 72.5)	8.38E-10	4.35E-07
1EB432C-BCC-LF	2	5.00E-04 ( 92.5)	1.16E-07 ( 75.5)	8.38E-10	4.35E-07
HCSF015C-VCC-LF	2	5.00E-04 ( 92.5)	1.16E-07 ( 75.5)	8.38E-10	4.35E-07
HCSF004C-VCC-LF	2	5.00E-04 ( 92.5)	1.16E-07 ( 75.5)	8.38E-10	4.35E-07
1EB433C-BOO-LF	2	5.00E-04 ( 92.5)	1.16E-07 ( 75.5)	8.35E-10	4.35E-07
DGX-GEN-CM-FTS	3	2.50E-02 ( 18.5)	1.15E-07 ( 78.0)	2.16E-09	4.30E-07
DG2A-GEN-LF-FTR	158	1.90E-02 ( 27.0)	1.15E-07 ( 79.0)	2.14E-09	5.95E-07
DG2B-GEN-LF-FTR	132	1.90E-02 ( 27.0)	8.71E-08 ( 80.0)	1.36E-09	5.90E-07
RC1C001X-TDP-LF	25	3.00E-02 ( 16.0)	8.17E-08 ( 81.0)	2.95E-09	3.84E-07
SY-REGP-RC1C001X	1	2.50E-03 ( 53.0)	6.71E-08 ( 82.0)	2.17E-09	2.68E-07
DG2A-GEN-CC-FTR	24	2.80E-03 ( 41.0)	6.56E-08 ( 83.0)	1.02E-09	3.91E-07
DGO-GEN-CC-FTR	18	2.80E-03 ( 41.0)	5.31E-08 ( 84.0)	4.11E-10	3.61E-07
DG2B-GEN-CC-FTR	14	2.80E-03 ( 41.0)	3.18E-08 ( 85.0)	3.47E-10	1.53E-07
DGOV02YA-M-UUM	2	5.00E-04 ( 92.5)	1.14E-08 ( 87.0)	2.19E-11	7.43E-08
DGOV01YA-M-UUM	2	5.00E-04 ( 92.5)	1.14E-08 ( 87.0)	2.19E-11	7.43E-08
DGOV01CA-F-UUM	2	5.00E-04 ( 92.5)	1.14E-08 ( 87.0)	2.19E-11	7.43E-08
DGOV01CA-FMS-LF	2	5.40E-04 ( 82.0)	1.14E-08 ( 89.0)	2.19E-11	7.42E-08
SWVY02AX-ACX-LFI	2	8.40E-04 ( 69.5)	1.14E-08 ( 90.0)	2.19E-11	7.42E-08
DG2A-GEN-LF-FTS	8	2.50E-02 ( 18.5)	1.14E-08 ( 91.0)	3.82E-11	4.68E-08
EE-MDP-PSW-BC-R	1	3.30E-01 ( 12.0)	7.55E-09 ( 93.0)		
EE-MDC-1AS-CB-R	1	3.30E-01 ( 12.0)	7.55E-09 ( 93.0)		
EE-MDC-1AS-AB-R	1	3.30E-01 ( 12.0)	7.55E-09 ( 93.0)		
TSMF50PERCENT	1	5.00E-01 ( 8.5)	6.09E-09 ( 95.5)		
15CD550PERCENT	1	5.00E-01 ( 8.5)	6.09E-09 ( 95.5)		
RA-9-48M	114	9.40E-01 ( 6.0)	2.54E-09 ( 97.0)	5.58E-12	2.09E-08



OPFAIL-REOPN-1H	42	2.50E-03	( 53.0)	1.40E-09	( 98.0)	2.35E-12	1.12E-08
RA-Q-2H	370	8.70E-01	( 7.0)	8.02E-10	( 99.0)	5.11E-13	4.45E-09
OPFAIL-REOPN-20M	B	3.50E-01	( 10.0)	1.85E-10	(100.0)	1.41E-12	1.10E-09
RA-15-4BM	3	9.50E-01	( 5.0)	1.56E-10	(101.0)	3.09E-13	6.81E-10
RCICRMCOOL-FLAG	388	1.00E+00	( 2.5)	0.00E+00	(103.5)		
RA-NONE	3	1.00E+00	( 2.5)	0.00E+00	(103.5)		
OPFAILS-REOPN	28	1.00E+00	( 2.5)	0.00E+00	(103.5)		
EE-CST-LVL	2	1.00E+00	( 2.5)	0.00E+00	(103.5)		

## SEQUENCE TL97

## UNCERTAINTY IMPORTANCE BY BASE EVENT

BASE EVENT	OCCUR	PROE (RANK)	% REDUCTION IN THE UNCERTAINTY		Y.05/TE.05*	Y.95/TE.95*
			OF LOG RISK	(RANK)		
Q1	495	8.20E-03 ( 31.0)	29.5	( 1.0)	2.47	1.10
Q2	1	9.40E-05 (105.0)	28.4	( 2.0)	1.09	1.00
SEVY03CB-FMS-CC	8	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
DGCOOL-PMS-CM	5	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
CSCC002-PMS-CC	4	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
1EB413A-BOO-CC	6	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
DOV-MOD-COM-CC	6	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
DG2V03CB-FMS-CC	8	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
DGHV01CC-FMS-CC	4	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
1EB234B-BCC-CC	8	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
DHV-MOD-COM-CC	4	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
1EB425B-BCC-CC	8	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
DGOV01CA-FMS-CC	6	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
1EB412A-BCC-CC	6	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
C2DG01P-FMS-CC	8	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
C0DG01P-FMS-CC	6	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
HCSC001C-PMS-CS	4	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
1EB433C-BOO-CC	4	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
SY-REGP-RC1C001X	1	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
1EB432C-BCC-CC	4	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
SWVY02CC-FMS-CC	4	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
1EB233A-BCC-AS	8	2.50E-03 ( 53.0)	23.8	( 12.5)	2.77	1.12
AP040X2-ROO-LFO	118	2.00E-02 ( 23.0)	19.8	( 24.5)	1.86	0.97
AP039X2-ROO-LFO	20	2.00E-02 ( 23.0)	19.8	( 24.5)	1.86	0.97
1E4327NY-ROO-LFO	55	2.00E-02 ( 23.0)	19.8	( 24.5)	1.86	0.97
1E4327NX-ROO-LFO	55	2.00E-02 ( 23.0)	19.8	( 24.5)	1.86	0.97
1EK18ARC-ROO-LFO	4	5.80E-04 ( 77.0)	19.6	( 27.0)	1.00	1.00
2DG1PK1B-ROO-LFO	4	5.00E-04 ( 92.5)	19.2	( 28.0)	1.00	1.00
DG2B-GEN-LF-FTS	132	2.50E-02 ( 18.5)	6.2	( 30.5)	1.19	1.12
DG2A-GEN-LF-FTS	8	2.50E-02 ( 18.5)	6.2	( 30.5)	1.19	1.12
DG0-GEN-LF-FTS	167	2.50E-02 ( 18.5)	6.2	( 30.5)	1.19	1.12
DGX-GEN-CM-FTS	3	2.50E-02 ( 18.5)	6.2	( 30.5)	1.19	1.12
DGCOOL-BETA	5	1.10E-01 ( 15.0)	4.7	( 33.0)	1.21	1.20
DG2V09YB-M-UUM	4	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
DG2V03CB-F-UUM	4	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
SEVY03CB-F-UUM	4	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
DGOV01YA-M-UUM	2	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
DGOV01CA-F-UUM	2	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
DG2V11YB-M-UUM	4	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
DGOV02YA-M-UUM	2	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
DG2V10YB-M-UUM	4	5.00E-04 ( 92.5)	4.3	( 37.5)	1.00	1.00
DG2B-GEN-LF-FTR	132	1.90E-02 ( 27.0)	4.1	( 43.0)	1.05	0.92
DG0-GEN-LF-FTR	167	1.90E-02 ( 27.0)	4.1	( 43.0)	1.05	0.92
DG2A-GEN-LF-FTR	158	1.90E-02 ( 27.0)	4.1	( 43.0)	1.05	0.92
RA-B-10H	370	2.00E-02 ( 23.0)	3.1	( 45.0)	1.02	0.99

RA-3-12-58M	1	1.80E-02 ( 29.0)	2.5	( 46.0)	0.95	1.01
RA-8-48M	122	3.00E-01 ( 14.0)	2.4	( 47.0)	1.17	0.94
DG0-G-UUM	16	6.00E-03 ( 32.5)	2.3	( 48.5)	1.00	1.00
DG2B-G-UUM	12	6.00E-03 ( 32.5)	2.3	( 48.5)	1.00	1.00
OPFAIL-REOPN-1H	42	2.50E-03 ( 53.0)	2.1	( 50.0)	1.00	1.00
DG2V03CB-FMS-LF	4	5.40E-04 ( 82.0)	2.1	( 52.0)	1.00	1.00
SEVY03CB-FMS-LF	4	5.40E-04 ( 82.0)	2.1	( 52.0)	1.00	1.00
DG0V01CA-FMS-LF	2	5.40E-04 ( 82.0)	2.1	( 52.0)	1.00	1.00
DG2V10YB-MOO-LF	4	3.00E-04 (103.0)	2.1	( 55.0)	1.00	1.00
DG2V09YB-MCC-LF	4	3.00E-04 (103.0)	2.1	( 55.0)	1.00	1.00
DG2V11YB-MCC-LF	4	3.00E-04 (103.0)	2.1	( 55.0)	1.00	1.00
CSCC002-PMS-LF	6	1.10E-03 ( 66.5)	1.7	( 58.5)	1.01	1.01
C2DG01P-PMS-LF	12	1.10E-03 ( 66.5)	1.7	( 58.5)	1.01	1.01
CODG01P-PMS-LF	10	1.10E-03 ( 66.5)	1.7	( 58.5)	1.01	1.01
HCS001C-PMS-LF	6	1.10E-03 ( 66.5)	1.7	( 58.5)	1.01	1.01
DG2B-GEN-CC-FTS	14	3.70E-03 ( 34.5)	1.7	( 61.5)	1.01	1.02
DG0-GEN-CC-FTS	18	3.70E-03 ( 34.5)	1.7	( 61.5)	1.01	1.02
DG2V02FX-KLN-LFB	8	5.80E-04 ( 77.0)	1.6	( 65.5)	1.01	0.99
C2DG01F-PLG-LF	8	5.80E-04 ( 77.0)	1.6	( 65.5)	1.01	0.99
DG0V01FX-KLN-LFB	6	5.80E-04 ( 77.0)	1.6	( 65.5)	1.01	0.99
CODG01F-PLG-LF	6	5.80E-04 ( 77.0)	1.6	( 65.5)	1.01	0.99
DGRV01FX-KLN-LFB	4	5.80E-04 ( 77.0)	1.6	( 65.5)	1.01	0.99
CSC0300-PLG-LF	4	5.80E-04 ( 77.0)	1.6	( 65.5)	1.01	0.99
SWVY02AX-ACX-LFI	2	8.40E-04 ( 69.5)	1.5	( 69.5)	1.00	1.00
SEVY03AX-ACX-LFI	4	8.40E-04 ( 69.5)	1.5	( 69.5)	1.00	1.00
OPFAIL-REOPN-20M	8	3.50E-01 ( 10.0)	1.4	( 71.0)	1.00	1.00
DG0V01CA-RUM-0	6	1.40E-03 ( 64.0)	1.2	( 72.0)	1.00	0.99
1EB432C-BCC-LF	2	5.00E-04 ( 92.5)	1.0	( 76.0)	0.98	1.00
1EB234B-BCC-LF	12	5.00E-04 ( 92.5)	1.0	( 76.0)	0.98	1.00
1EB425B-BCC-LF	8	5.00E-04 ( 92.5)	1.0	( 76.0)	0.98	1.00
1EB413A-BOO-LF	4	5.00E-04 ( 92.5)	1.0	( 76.0)	0.98	1.00
1EB233A-BCC-LF	6	5.00E-04 ( 92.5)	1.0	( 76.0)	0.98	1.00
1EB412A-BCC-LF	4	5.00E-04 ( 92.5)	1.0	( 76.0)	0.98	1.00
1EB433C-BOO-LF	2	5.00E-04 ( 92.5)	1.0	( 76.0)	0.98	1.00
CSCC002-P-UUM	4	3.00E-03 ( 37.5)	0.0	( 88.0)		
C2DG01P-P-UUM	8	3.00E-03 ( 37.5)	0.0	( 88.0)		
DG2B-GEN-CC-FTR	14	2.80E-03 ( 41.0)	0.0	( 88.0)		
DG2A-GEN-CC-FTR	24	2.80E-03 ( 41.0)	0.0	( 88.0)		
RA-9-18M	114	9.40E-01 ( 6.0)	0.0	( 88.0)		
RA-9-2H	370	8.70E-01 ( 7.0)	0.0	( 88.0)		
RA-15-48M	3	9.50E-01 ( 5.0)	0.0	( 88.0)		
CODG01P-P-UUM	4	3.00E-03 ( 37.5)	0.0	( 88.0)		
HCSF015C-VCC-LF	2	5.00E-04 ( 92.5)	0.0	( 88.0)		
HCSF004C-VCC-LF	2	5.00E-04 ( 92.5)	0.0	( 88.0)		
HCS001C-P-UUM	4	3.00E-03 ( 37.5)	0.0	( 88.0)		
EE-CSC0300-PLG	8	7.20E-04 ( 72.0)	0.0	( 88.0)		
EE-C2DG01F-PLG	12	7.20E-04 ( 72.0)	0.0	( 88.0)		
DG0-GEN-CC-FTR	18	2.80E-03 ( 41.0)	0.0	( 88.0)		
RTIC001X-TDP-LF	25	3.00E-02 ( 16.0)	0.0	( 88.0)		
EE-CODG01F-PLG	10	7.20E-04 ( 72.0)	0.0	( 88.0)		
DG-FTS-BETA	3	1.20E-02 ( 30.0)	0.0	( 88.0)		
YSMFS50PERCENT	1	5.00E-01 ( 8.5)				

YSCDSSPERCENT	1	5.00E-01	(	8.5)
RCICRMCOOL-FLAG	308	1.00E+00	(	2.5)
RA-WONE	3	1.00E+00	(	2.5)
OPFALLS-REOPEN	28	1.00E+00	(	2.5)
EE-MOP-PSM-BC-R	1	3.30E-01	(	12.0)
EE-MDC-IAS-CB-R	1	3.30E-01	(	12.0)
EE-MDC-IAS-AS-R	1	3.30E-01	(	12.0)
EE-CST-LVL	2	1.00E+00	(	2.5)

SEQUENCE TL97

CUT SET NUMBERS, CUT SET ORDERS, CUT SET FREQUENCIES,  
 CUMULATIVE NORMALIZED CUT SET FREQUENCIES AND CUT SETS  
 FOR TOP EVENT PDS-TL-SEQ8 WITH TOP EVENT FREQUENCY 1.32E-07

(THE FIRST COLUMN OF NUMBERS IS THE LINE NUMBERS FOR THE FILE TEMACSETS.DNF)

A-649

2	1	6	6.49E-08	0.49323	DGCOOL-BETA	* DGCOOL-PMS-CM	* IE-LOSP	* Q1	*
3					RA-8-48M	* RCICRMCOOL-FLAG	+		*
4	2	8	6.09E-09	0.53947	DGCOOL-BETA	* DGCOOL-PMS-CM	* IE-T5	* Q1	*
5					RA-3-12-68M	* RCICRMCOOL-FLAG	* T5CDS50PERCENT	* T5MFS50PERCENT	+
6	4	6	3.72E-09	0.56773	DGCOOL-BETA	* DGCOOL-PMS-CM	* EE-MDP-PSW-BC-R	* IE-T9A	*
7					Q1	* RA-NONE	+		*
8	3	6	3.72E-09	0.59598	DGCOOL-BETA	* DGCOOL-PMS-CM	* EE-MDC-IAS-AB-R	* IE-T9A	*
9					Q1	* RA-NONE	+		*
10	5	6	3.72E-09	0.62424	DGCOOL-BETA	* DGCOOL-PMS-CM	* EE-MDC-IAS-CB-R	* IE-T9*	*
11					Q1	* RA-NONE	+		*
12	8	8	2.77E-09	0.64532	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LO/P	*
13					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
14	6	8	2.77E-09	0.66639	AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
15					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
16	7	8	2.77E-09	0.68747	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
17					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+
18	11	8	2.22E-09	0.70433	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* IE-LOSP	*
19					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
20	12	8	2.22E-09	0.72118	1E4327NX-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* IE-LOSP	*
21					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
22	14	8	2.22E-09	0.73804	1E4327MX-ROO-LFO	* AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* IE-LOSP	*
23					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
24	13	8	2.22E-09	0.75490	1E4327MX-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* IE-LOSP	*
25					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+
26	9	8	2.22E-09	0.77176	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* IE-LOSP	*
27					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+
28	10	8	2.22E-09	0.78862	1E4327NY-ROO-LFO	* AP039X2-ROO-LFO	* DGO-GEN-LF-FTS	* IE-LOSP	*
29					OPFAILS-REOPEN	* Q1	* RA-8-48M	* RA-9-48M	+
30	15	7	2.02E-09	0.80396	DG-FTS-BETA	* DGX-CFH-CM-FTS	* IE-LOSP	* Q1	*
31					RA-15-48M	* RA-8-48M	* RCIC001X-TDP-LF	+	*
32	59	6	7.72E-10	0.80982	DG-FTS-BETA	* DGX-GEN-CM-FTS	* IE-LOSP	* Q2	*
33					RA-15-48M	* RA-8-48M	+		*
34	16	8	6.66E-10	0.81487	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-G-UUM	* IE-LOSP	*
35					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+
36	17	8	6.66E-10	0.81993	AP040X2-ROO-LFO	* DGO-G-UUM	* DG2B-GEN-LF-FTS	* IE-LOSP	*
37					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+
38	19	7	5.67E-10	0.82424	1E4327NX-ROO-LFO	* AP040X2-ROO-LFO	* DGO-G-UUM	* IE-LOSP	*
39					Q1	* RA-8-48M	* RCICRMCOOL-FLAG	+	*
40	18	7	5.67E-10	0.82854	1E4327NY-ROO-LFO	* AP040X2-ROO-LFO	* DGO-G-UUM	* IE-LOSP	*
41					Q1	* RA-8-48M	* RCICRMCOOL-FLAG	+	*
42	20	8	4.16E-10	0.83170	C2DG01P-P-UUM	* DGO-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* IE-LOSP	*
43					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+
44	21	8	4.11E-10	0.83482	AP040X2-ROO-LFO	* DGO-GEN-LF-FTS	* DG2B-GEN-CC-FTS	* IE-LOSP	*
45					Q1	* RA-8-48M	* RA-9-48M	* RCICRMCOOL-FLAG	+

46	22	8	4.11E-10	0.83794	AP040X2-R00-LFO Q1	DG0-GEN-CC-FTS RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
47	26	8	3.47E-10	0.84058	C20G01P-PMS-CC Q1	DG0-GEN-LF-FTS RA-8-48M	DG2B-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
48	24	8	3.47E-10	0.84321	1E8425B-BCC-CC Q1	DG0-GEN-LF-FTS RA-8-48M	DG2B-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
49	27	8	3.47E-10	0.84584	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-8-48M	DG2B-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
50	25	8	3.47E-10	0.84848	1E8234B-BCC-CC Q1	DG0-GEN-LF-FTS RA-8-48M	DG2B-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
51	23	8	3.47E-10	0.85111	DG0-GEN-LF-FTS RA-8-48M	DG2B-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
52	28	8	3.33E-10	0.85364	AP040X2-R00-LFO Q1	DG0-GEN-LF-FTS RA-8-48M	DG2B-GEN-LF-FTS RA-9-48M	DG2B-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
53	31	8	3.33E-10	0.85617	AP040X2-R00-LFO Q1	LSC002-P-UJM RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
54	30	8	3.33E-10	0.85870	1E4327NY-R00-LFO Q1	C20G01P-P-UJM RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
55	29	8	3.33E-10	0.86123	1E4327NX-R00-LFO Q1	C20G01P-P-UJM RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
56	32	8	3.33E-10	0.86376	AP040Y2-R00-LFO Q1	C00G01P-P-UJM RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
57	33	8	3.29E-10	0.86629	1E4327NY-R00-LFO Q1	AP040X2-R00-LFO RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
58	34	8	3.29E-10	0.86875	1E4327NX-R00-LFO Q1	AP040X2-R00-LFO RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
59	42	8	2.77E-10	0.87085	AP040X2-R00-LFO Q1	DG0-GEN-LF-FTS RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
60	39	8	2.77E-10	0.87296	AP040X2-R00-LFO Q1	DG0-GEN-LF-FTS RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
61	38	8	2.77E-10	0.87507	1E4327NX-R00-LFO Q1	DG0-GEN-LF-FTS RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
62	37	8	2.77E-10	0.87718	1E4327NY-R00-LFO Q1	DG0-GEN-LF-FTS RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
63	36	8	2.77E-10	0.87928	AP040X2-R00-LFO Q1	DG0-GEN-LF-FTS RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
64	58	8	2.77E-10	0.88139	1E4327NY-R00-LFO Q1	1E8425B-BCC-CC RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
65	40	8	2.77E-10	0.88350	AP040X2-R00-LFO RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
66	57	8	2.77E-10	0.88561	AP040X2-R00-LFO Q1	DG0V01CA-FMS-CC RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
67	56	8	2.77E-10	0.88771	1E8425B-BCC-CC Q1	AP040X2-R00-LFO RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
68	55	8	2.77E-10	0.88982	1E4327NY-R00-LFO Q1	1E8234B-BCC-CC RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
69	52	8	2.77E-10	0.89193	1E4327NX-R00-LFO Q1	1E8234B-BCC-CC RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
70	51	8	2.77E-10	0.89404	1E8412A-BCC-CC Q1	AP040X2-R00-LFO RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG
71	49	8	2.77E-10	0.89614	1E4327NX-R00-LFO Q1	1E8425B-BCC-CC RA-8-48M	DG0-GEN-LF-FTS RA-9-48M	DG0-GEN-LF-FTS RA-9-48M	1E-LOSP RC1CRMCOOL-FLAG

98	53	8	2.77E-10	0.89825	1E8433C-ROO-CC	* AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* 1E-LOSP	*
99					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
100	48	8	2.77E-10	0.90036	1E4327NY-ROO-LFO	* C2DG01P-PMS-CC	* DG0-GEN-LF-FTS	* 1E-LOSP	*
101					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
102	54	8	2.77E-10	0.90247	1E8233A-BCC-AS	* AP040X2-ROO-LFO	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
103					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
104	41	8	2.77E-10	0.90457	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* 1E-LOSP	* Q1	*
105					RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	* SEVY03CB-FMS-CC	*
106	50	8	2.77E-10	0.90668	1E8233A-BCC-AS	* AP039X2-ROO-LFO	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
107					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
108	45	8	2.77E-10	0.90879	AP040X2-ROO-LFO	* DOV-MOD-COM-CC	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
109					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
110	47	8	2.77E-10	0.91090	AP040X2-ROO-LFO	* C5CC002-PMS-CC	* DG0-GEN-LF-FTS	* 1E-LOSP	*
111					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
112	4	8	2.77E-10	0.91300	1E8413A-ROO-CC	* AP040X2-ROO-LFO	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
113					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
114	43	8	2.77E-10	0.91511	AP040X2-ROO-LFO	* C0DG01P-PMS-CC	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
115					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
116	46	8	2.77E-10	0.91722	1E4327NX-ROO-LFO	* C2DG01P-PMS-CC	* DG0-GEN-LF-FTS	* 1E-LOSP	*
117					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
118	35	8	2.77E-10	0.91933	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* 1E-LOSP	* Q1	*
119					RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	* SEVY03CB-FMS-CC	*
120	60	7	1.68E-10	0.92060	DG-FTS-BETA	* DGX-GEN-CM-FTS	* 1E-LOSP	* Q1	*
121					RA-15-48M	* RA-B-48M	* SY-REGP-RCIC001Y		
122	61	8	1.63E-10	0.92184	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
123					Q1	* RA-B-10P	* RA-9-2H	* RCICRMCOOL-FLAG	*
124	62	8	1.55E-10	0.92302	AP040X2-ROO-LFO	* DGDV01CA-RUM-D	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
125					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
126	63	8	1.53E-10	0.92418	C2DG01P-PMS-LF	* DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
127					Q1	* RA-B-48M	* RA-9-48M	* RCICRMCOOL-FLAG	*
128	64	8	1.30E-10	0.92517	1E4327NY-ROO-LFO	* DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
129					Q1	* RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	*
130	66	8	1.30E-10	0.92615	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
131					OPFAILS-REOPEN	* Q1	* RA-B-10H	* RA-9-2H	*
132	67	8	1.30E-10	0.92714	1E4327NX-ROO-LFO	* DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* 1E-LOSP	*
133					Q1	* RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	*
134	65	8	1.30E-10	0.92813	AP040X2-ROO-LFO	* DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
135					Q1	* RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	*
136	68	8	1.30E-10	0.92912	AP039X2-ROO-LFO	* DG0-GEN-LF-FTS	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
137					OPFAILS-REOPEN	* Q1	* RA-B-10H	* RA-9-2H	*
138	71	8	1.30E-10	0.93011	AP039X2-ROO-LFO	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
139					OPFAILS-REOPEN	* Q1	* RA-B-10H	* RA-9-2H	*
140	70	8	1.30E-10	0.93110	AP040X2-ROO-LFO	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
141					Q1	* RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	*
142	69	8	1.30E-10	0.93208	AP040X2-ROO-LFO	* DG0-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
143					OPFAILS-REOPEN	* Q1	* RA-B-10H	* RA-9-2H	*
144	79	8	1.24E-10	0.93302	DG0-GEN-LF-FTS	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTR	* 1E-LOSP	*
145					Q1	* RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	*
146	78	8	1.24E-10	0.93396	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	* DG2B-GEN-LF-FTS	* 1E-LOSP	*
147					Q1	* RA-B-10H	* RA-9-2H	* RCICRMCOOL-FLAG	*
148	77	8	1.22E-10	0.93489	1E4327NX-ROO-LFO	* C2DG01P-PMS-LF	* DG0-GEN-LF-FTS	* 1E-LOSP	*
149					Q1	* RA-B-4	* RA-9-48M	* RCICRMCOOL-FLAG	*

150	76	8	1.22E-10	0.93582	1E4327NY-R00-LFO	C2D601P-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP
151					Q1	RA-8-48M	RA-9-2H	RCICRMCOOL-FLAG
152	74	8	1.22E-10	0.93674	AP040X2-R00-LFO	C0D601P-PMS-LF	DG2B-GEN-LF-FTS	1E-LOSP
153					Q1	RA-8-48M	RA-9-48M	RCICRMCOOL-FLAG
154	75	8	1.22E-10	0.93767	AP040X2-R00-LFO	C5CC002-PMS-LF	DG0-GEN-LF-FTS	1E-LOSP
155					Q1	RA-8-48M	RA-9-48M	RCICRMCOOL-FLAG
156	73	8	1.22E-10	0.93860	AP040X2-R00-LFO	DG0-GEN-LF-FTS	MCSC001C-PMS-LF	1E-LOSP
157					Q1	RA-8-48M	RA-9-48M	RCICRMCOOL-FLAG
158	72	8	1.17E-10	0.93948	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	D1
159					RA-8-48M	RA-9-48M	RCICRMCOOL-FLAG	SEVY03AK-ACK-LFI
160	81	8	1.04E-10	0.94027	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
161					OPFAILS-REOPEN	Q1	RA-8-10H	RA-9-2H
162	85	8	1.04E-10	0.94106	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
163					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
164	84	8	1.04E-10	0.94186	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
165					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
166	82	8	1.04E-10	0.94265	1E4327NY-R00-LFO	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
167					PFALLS-REOPEN	Q1	RA-8-10H	RA-9-2H
168	83	8	1.04E-10	0.94344	1E4327NY-R00-LFO	AP039X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
169					OPFAILS-REOPEN	Q1	RA-8-10H	RA-9-2H
170	86	8	1.04E-10	0.94423	1E4327NY-R00-LFO	AP040X2-R00-LFO	DG0-GEN-LF-FTR	1E-LOSP
171					OPFAILS-REOPEN	Q1	RA-8-10H	RA-9-2H
172	80	8	1.04E-10	0.94502	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
173					Q1	RA-8-48M	RA-9-48M	RCIC001X-TDP-LF
174	88	7	1.04E-10	0.94581	1E4327NY-R00-LFO	AP040X2-R00-LFO	C0D601P-PMS-LF	1E-LOSP
175					Q1	RA-8-48M	RCICRMCOOL-FLAG	1E-LOSP
176	87	7	1.04E-10	0.94660	1E4327NY-R00-LFO	AP040X2-R00-LFO	C0D601P-PMS-LF	1E-LOSP
177					Q1	RA-8-48M	RCICRMCOOL-FLAG	1E-LOSP
178	89	8	9.99E-11	0.94735	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	EE-C2D601F-PLG	RCICRMCOOL-FLAG
179					Q1	RA-8-48M	RA-9-48M	1E-LOSP
180	95	8	9.89E-11	0.94811	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	RCICRMCOOL-FLAG
181					Q1	RA-8-10H	RA-9-2H	1E-LOSP
182	96	8	9.89E-11	0.94886	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	RCICRMCOOL-FLAG
183					Q1	RA-8-10H	RA-9-2H	1E-LOSP
184	93	8	9.89E-11	0.94961	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	RCICRMCOOL-FLAG
185					Q1	RA-8-10H	RA-9-2H	1E-LOSP
186	94	8	9.89E-11	0.95036	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	RCICRMCOOL-FLAG
187					OPFAILS-REOPEN	Q1	RA-8-10H	RA-9-2H
188	92	8	9.89E-11	0.95111	AP039X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	RCICRMCOOL-FLAG
189					OPFAILS-REOPEN	Q1	RA-8-10H	RA-9-2H
190	90	8	9.86E-11	0.95186	AP040X2-R00-LFO	DG0-G-UJM	DG2B-GEN-LF-FTR	RCICRMCOOL-FLAG
191					Q1	RA-8-48M	RA-9-48M	1E-LOSP
192	91	8	9.86E-11	0.95261	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	RCICRMCOOL-FLAG
193					Q1	RA-8-48M	RA-9-48M	1E-LOSP
194	97	8	9.39E-11	0.95332	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	RCICRMCOOL-FLAG
195					Q1	RA-8-10H	RA-9-2H	1E-LOSP
196	100	8	8.32E-11	0.95395	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	RCIC001X-TDP-LF
197					Q1	RA-8-48M	DG2B-GEN-LF-FTS	1E-LOSP
198	101	8	8.32E-11	0.95458	AP039X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	RCIC001X-TDP-LF
199					Q1	RA-8-48M	RA-9-48M	1E-LOSP
200	99	8	8.32E-11	0.95522	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
201					Q1	RA-8-48M	RA-9-48M	RCIC001X-TDP-LF



202	98	B	8.32E-11	0.95585	1E4327NK-R00-LFO	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTS	1E-LOSP
203					Q1	RA-8-48M	RA-9-48M	REIC001X-TOP-LF
204	102	B	8.05E-11	0.95646	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V02FX-KLM-LFB	1E-LOSP
205						RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
206	103	B	8.05E-11	0.95707	1E416ARC-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
207					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
208	104	B	8.05E-11	0.95763	C20G01F-PLG-LF	DG0-GEN-LF-FTS	3G2B-GEN-LF-FTS	1E-LOSP
209					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
210	112	B	7.99E-11	0.95827	AP039X2-R00-LFO	DG2B-GEN-LF-FTS	EE-C00G01F-PLG	1E-LOSP
211					OFFAILS-REOPEN	Q1	RA-8-48M	RA-9-48M
212	111	B	7.99E-11	0.95890	1E4327NK-R00-LFO	DG0-GEN-LF-FTS	EE-C20G01F-PLG	1E-LOSP
213					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
214	107	B	7.99E-11	0.95950	AP039X2-R00-LFO	DG0-GEN-LF-FTS	EE-C50G300-PLG	1E-LOSP
215					OFFAILS-REOPEN	Q1	RA-8-48M	RA-9-48M
216	110	B	7.99E-11	0.96011	AP040X2-R00-LFO	DG0-GEN-LF-FTS	EE-C50G300-PLG	1E-LOSP
217					OFFAILS-REOPEN	Q1	RA-8-48M	RA-9-48M
218	109	B	7.99E-11	0.96072	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	EE-C00G01F-PLG	1E-LOSP
219					OFFAILS-REOPEN	Q1	RA-8-48M	RA-9-48M
220	106	B	7.99E-11	0.96132	AP040X2-R00-LFO	DG2B-GEN-LF-FTS	EE-C00G01F-PLG	1E-LOSP
221					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
222	108	B	7.99E-11	0.96193	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	EE-C20G01F-PLG	1E-LOSP
223					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
224	105	B	7.99E-11	0.96254	AP040X2-R00-LFO	DG0-GEN-LF-FTS	EE-C50G300-PLG	1E-LOSP
225					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
226	114	B	7.49E-11	0.96311	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V03CB-FMS-LF	1E-LOSP
227					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
228	113	B	7.49E-11	0.96368	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	Q1
229					FA-8-45A	RA-9-48M	R*ICRMCOOL-FLAG	SEVY03CB-FMS-LF
230	119	B	6.94E-11	0.96420	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V00Y9B-M-UUM	1E-LOSP
231					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
232	118	B	6.94E-11	0.96473	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V10Y9B-M-UUM	1E-LOSP
233					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
234	116	B	6.94E-11	0.96526	DGL-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V03CB-F-UUM	1E-LOSP
235					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
236	117	B	6.94E-11	0.96578	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	DG2V11Y9B-M-UUM	1E-LOSP
237					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
238	121	B	6.94E-11	0.96631	1E8425B-8CC-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
239					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
240	122	B	6.94E-11	0.96684	1E8234B-8CC-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
241					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
242	123	B	6.94E-11	0.96736	1E8234B-8CC-LF	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
243					OFFAILS-REOPEN	Q1	RA-8-48M	RA-9-48M
244	120	B	6.94E-11	0.96789	20G1PK18-R00-LFO	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
245					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
246	115	B	6.94E-11	0.96842	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP	Q1
247					RA-8-48M	RA-9-48M	REICRMCOOL-FLAG	SEVY03CB-F-UUM
248	124	B	6.44E-11	0.96891	1E4327NK-R00-LFO	DG0-GEN-LF-FTS	DG2V02FX-KLM-LFB	1E-LOSP
249					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
250	126	B	6.44E-11	0.96940	1E4327NY-R00-LFO	DG0-GEN-LF-FTS	DG2V02FX-KLM-LFB	1E-LOSP
251					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG
252	125	B	6.44E-11	0.96988	AP040X2-R00-LFO	DG0-GEN-LF-FTS	DG2V01FX-KLM-LFB	1E-LOSP
253					Q1	RA-8-48M	RA-9-48M	REICRMCOOL-FLAG

254	127	8	6.44E-11	0.97037	AP040K2-R00-LF0 Q1	CSD300-PLG-LF RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
255	131	8	6.44E-11	0.97086	AP040K2-R00-LF0 Q1	CSD300-PLG-LF RA-8-40M	DG2B-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
256	130	8	6.44E-11	0.97135	AP040K2-R00-LF0 Q1	DG0V01FX-KLN-LFB RA-8-40M	DG2B-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
257	129	8	6.44E-11	0.97184	IE4327NY-R00-LF0 Q1	CSD300-PLG-LF RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
258	128	8	6.44E-11	0.97233	IE4327NR-R00-LF0 Q1	CSD300-PLG-LF RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
259	132	8	6.08E-11	0.97279	AP040K2-R00-LF0 Q1	DG0-GEN-CC-FTS RA-8-40M	DG2B-GEN-CC-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
260	144	8	5.55E-11	0.97321	IE4327NY-R00-LF0 Q1	IEB425B-RCC-LF RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
261	142	8	5.55E-11	0.97363	IE4327NR-R00-LF0 Q1	IEB425B-RCC-LF RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
262	141	8	5.55E-11	0.97406	IE4327NR-R00-LF0 Q1	IEB234B-RCC-LF RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
263	140	9	5.55E-11	0.97448	AP040K2-R00-LF0 Q1	DG0-GEN-LF-FTS Q1	EE-CST-LVL RA-8-40M	MCSF01SC-VCC-LF RA-8-40M
264	139	8	5.55E-11	0.97490	RCICMCOOL-FLAG IEB233A-RCC-LF Q1	AP040K2-R00-LF0 RA-8-40M	DG2B-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
265	138	8	5.55E-11	0.97532	AP040K2-R00-LF0 Q1	DG0-GEN-LF-FTS RA-8-40M	MCSF004C-VCC-LF RA-9-40M	IE-LOSP RCICMCOOL-FLAG
266	136	8	5.55E-11	0.97574	IEB413A-R00-LF Q1	AP040K2-R00-LF0 RA-8-40M	UG2B-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
267	135	8	5.55E-11	0.97616	IEB233A-RCC-LF Q1	AP039K2-R00-LF0 RA-8-40M	DG2B-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
268	134	8	5.55E-11	0.97658	IEB412A-RCC-LF Q1	AP040K2-R00-LF0 RA-8-40M	DG2B-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
269	143	8	5.55E-11	0.97701	IE4327NY-R00-LF0 Q1	IEB234B-RCC-LF RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
270	133	8	5.55E-11	0.97743	IEB433C-R00-LF Q1	AP040K2-R00-LF0 RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
271	137	8	5.55E-11	0.97785	IEB432C-RCC-LF Q1	AP040K2-R00-LF0 RA-8-40M	DG0-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
272	145	8	5.34E-11	0.97825	CSD300-PLG-LF Q1	DG0-GEN-LF-FTS RA-8-40M	DG2B-GEN-LF-FTS RA-9-40M	IE-LOSP RCICMCOOL-FLAG
273	148	8	4.16E-11	0.97857	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-8-40M	DG2V01YB-MCC-LF RA-9-40M	IE-LOSP RCICMCOOL-FLAG
274	147	8	4.16E-11	0.97889	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-8-40M	DG2V01YB-MCC-LF RA-9-40M	IE-LOSP RCICMCOOL-FLAG
275	146	8	4.16E-11	0.97920	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-8-40M	DG2V01YB-MCC-LF RA-9-40M	IE-LOSP RCICMCOOL-FLAG
276	150	8	3.90E-11	0.97950	DG0-GEN-LF-FTS Q1	DG2A-GEN-LF-FTR RA-8-10M	DG2B-G-UM RA-9-2M	IE-LOSP RCICMCOOL-FLAG
277	149	8	3.90E-11	0.97980	DG0-G-UM Q1	DG2A-GEN-LF-FTR RA-8-10M	DG2B-G-UM RA-9-2M	IE-LOSP RCICMCOOL-FLAG
278	151	8	3.50E-11	0.98006	DG0-GEN-LF-FTS Q1	DG2B-GEN-LF-FTS RA-8-10M	EE-CSD300-PLG RA-9-40M	IE-LOSP RCICMCOOL-FLAG
279	152	8	3.12E-11	0.98030	AP040K2-R00-LF0 Q1	DG0-GEN-LF-FTR RA-8-10M	DG2B-G-UM RA-9-2M	IE-LOSP RCICMCOOL-FLAG

307	*55	8	3.12E-11	0.98034	1E4327NY-R00-LFO	DG0-G-UJM	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	TE-LOSP
308					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
309	154	8	3.12E-11	0.98077	AP040X2-R00-LFO	DG0-G-UJM	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
310					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
311	153	8	3.12E-11	0.98101	1E4327NY-R00-LFO	DG0-G-UJM	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	TE-LOSP
312					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
313	157	8	2.97E-11	0.98124	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
314					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
315	156	8	2.97E-11	0.98146	DG0-G-UJM	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
316					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
317	159	8	2.41E-11	0.98164	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
318					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
319	158	8	2.41E-11	0.98183	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
320					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
321	160	8	2.40E-11	0.98201	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
322					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
323	165	8	1.95E-11	0.98216	C20G01P-P-UJM	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
324					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
325	164	8	1.95E-11	0.98230	C0G01P-P-UJM	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
326					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
327	163	8	1.95E-11	0.98245	C20G01P-P-UJM	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
328					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
329	162	8	1.95E-11	0.98260	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
330					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
331	161	8	1.95E-11	0.98275	C5LC002-P-UJM	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	TE-LOSP
332					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
333	169	8	1.93E-11	0.98290	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	TE-LOSP
334					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
335	168	8	1.93E-11	0.98304	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
336					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
337	167	8	1.93E-11	0.98319	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	TE-LOSP
338					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
339	166	8	1.93E-11	0.98333	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
340					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
341	173	8	1.92E-11	0.98348	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	TE-LOSP
342					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
343	172	8	1.92E-11	0.98363	1E4327NY-R00-LFO	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2A-GEN-LF-FTR	TE-LOSP
344					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
345	170	8	1.92E-11	0.98377	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
346					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
347	171	8	1.92E-11	0.98392	AP040X2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
348					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
349	175	8	1.83E-11	0.98406	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
350					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
351	174	8	1.83E-11	0.98419	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
352					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
353	179	8	1.82E-11	0.98433	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
354					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
355	178	8	1.82E-11	0.98447	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
356					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
357	177	8	1.82E-11	0.98461	DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTR	TE-LOSP
358					Q1	RA-8-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG

359	176	B	1.82E-11	0.98475	DG0-GEN-LF-FTS	DG2A-GEN-CC-FTR	DG2B-GEN-LF-FTR	1E-LOSP
360					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
361	185	B	1.63E-11	0.98487	C20G01P-PMS-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
362					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
363	184	B	1.63E-11	0.98500	1E8425B-BCC-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
364					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
365	183	B	1.63E-11	0.98512	1E8433C-B00-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP
366					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
367	181	B	1.63E-11	0.98524	1E8432C-BCC-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP
368					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
369	180	B	1.63E-11	0.98537	C00C002-PMS-CC	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	1E-LOSP
370					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
371	182	B	1.63E-11	0.98549	1E842348-BCC-CC	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	1E-LOSP
372					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
373	202	B	1.63E-11	0.98561	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	DG2V03CB-PMS-CC	1E-LOSP
374					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
375	200	B	1.63E-11	0.98574	1E842348-BCC-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
376					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
377	198	B	1.63E-11	0.98586	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTR	DG2V03CB-PMS-CC	1E-LOSP
378					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
379	197	B	1.63E-11	0.98598	1E8413A-B00-CC	DG2A-GEN-LF-FTR	DG2B-FEN-LF-FTS	1E-LOSP
380					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
381	196	B	1.63E-11	0.98611	1E8425B-BCC-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
382					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
383	195	B	1.63E-11	0.98623	DG0V01CA-PMS-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
384					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
385	194	B	1.63E-11	0.98635	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	HCSC001C-PMS-CC	1E-LOSP
386					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
387	193	B	1.63E-11	0.98648	1E8412A-BCC-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
388					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
389	192	B	1.63E-11	0.98660	C00G01P-PMS-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
390					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
391	190	B	1.63E-11	0.98672	1E84233A-BCC-AS	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
392					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
393	187	B	1.63E-11	0.98685	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2V03CB-PMS-CC	1E-LOSP
394					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
395	186	B	1.63E-11	0.98697	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
396					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
397	199	B	1.63E-11	0.98710	C20G01P-PMS-CC	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
398					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
399	189	B	1.63E-11	0.98722	D0V-M00-COM-CC	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
400					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
401	201	B	1.63E-11	0.98734	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	DG2B-GEN-LF-FTS	1E-LOSP
402					RA-B-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
403	191	B	1.63E-11	0.98747	DG0-GEN-LF-FTS	DG2B-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
404					RA-B-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
405	188	B	1.63E-11	0.98759	DG0-GEN-LF-FTS	DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
406					RA-B-10H	RA-9-2H	RA-9-2H	RCICRMCOOL-FLAG
407	203	B	1.56E-11	0.98771	AP040K2-R00-LFO	DG0-GEN-LF-FTR	DG2B-GEN-LF-FTS	1E-LOSP
408					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG
409	207	B	1.56E-11	0.98783	1E4327NY-R00-LFO	C20G01P-P-UM	DG0-GEN-LF-FTR	1E-LOSP
410					Q1	RA-B-10H	RA-9-2H	RCICRMCOOL-FLAG

411	206	B	1.56E-11	0.98795	AP040K2-R00-LFO	* C00G01P-P-UUM	* DG2B-GEN-LF-FTR	* IE-LOSP
412					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
413	205	B	1.56E-11	0.98806	AP040K2-R00-LFO	* CSC002-P-UUM	DG0-GEN-LF-FTR	IE-LOSP
414					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
415	204	B	1.56E-11	0.98818	1E4327NK-R00-LFO	* C20G01P-P-UUM	DG0-GEN-LF-FTR	IE-LOSP
416					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
417	209	B	1.53E-11	0.98830	1E4327NK-R00-LFO	* AP040K2-R00-LFO	DG0-GEN-CC-FTR	IE-LOSP
418					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
419	208	B	1.53E-11	0.98842	1E4327NY-R00-LFO	* AP040K2-R00-LFO	-GD-GEN-CC-FTR	IE-LOSP
420					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
421	213	B	1.48E-11	0.98853	C20G01P-P-UUM	* DG0-GEN-LF-FTR	RA-9-2H	RCICRMCOOL-FLAG
422					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
423	212	B	1.48E-11	0.98864	CSC002-P-UUM	* DG0-GEN-LF-FTR	DG2A-GEN-LF-FTR	IE-LOSP
424					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
425	211	B	1.48E-11	0.98875	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	WCS001C-P-UUM	IE-LOSP
426					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
427	210	B	1.48E-11	0.98887	C00G01P-P-UUM	* DG2A-GEN-LF-FTR	SA-9-2H	RCICRMCOOL-FLAG
428					Q1	RA-8-10H	DG2B-GEN-LF-FTR	IE-LOSP
429	219	B	1.46E-11	0.98898	1E4327NK-R00-LFO	* RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
430					Q1	RA-8-10H	DG2A-GEN-CC-FTR	IE-LOSP
431	215	B	1.46E-11	0.98909	AP040K2-R00-LFO	* DG0-GEN-LF-FTR	RA-9-2H	RCICRMCOOL-FLAG
432					Q1	RA-8-10H	DG2B-GEN-CC-FTR	IE-LOSP
433	216	B	1.46E-11	0.98920	AP040K2-R00-LFO	* DG0-GEN-CC-FTR	DG2B-GEN-LF-FTR	IE-LOSP
434					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
435	218	B	1.46E-11	0.98931	1E4327NY-R00-LFO	* DG0-GEN-CC-FTR	DG2A-GEN-LF-FTR	IE-LOSP
436					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
437	214	B	1.46E-11	0.98942	1E4327NK-R00-LFO	* DG0-GEN-CC-FTR	RA-9-2H	RCICRMCOOL-FLAG
438					Q1	RA-8-10H	DG2A-GEN-LF-FTR	IE-LOSP
439	217	B	1.46E-11	0.98953	1E4327NY-R00-LFO	* DG0-GEN-LF-FTR	DG2A-GEN-CC-FTR	IE-LOSP
440					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
441	222	B	1.38E-11	0.98964	DG0-GEN-LF-FTR	* DG2A-GEN-CC-FTR	RA-9-2H	RCICRMCOOL-FLAG
442					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
443	221	B	1.38E-11	0.98974	DG0-GEN-LF-FTR	* DG2A-GEN-LF-FTR	DG2B-GEN-CC-FTR	IE-LOSP
444					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
445	220	B	1.38E-11	0.98985	DG0-GEN-CC-FTR	* DG2A-GEN-LF-FTR	DG2B-GEN-LF-FTR	IE-LOSP
446					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
447	245	B	1.30E-11	0.98994	AP040K2-R00-LFO	* DG0-GEN-LF-FTR	IE-LOSP	Q1
448					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	SMW02CC-PMS-CC
449	233	B	1.30E-11	0.99004	1E4327NY-R00-LFO	* DG0-GEN-LF-FTR	IE-LOSP	Q1
450					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	Q1
451	225	B	1.30E-11	0.99014	1E4327NK-R00-LFO	* DG0-GEN-LF-FTR	IE-LOSP	Q1
452					RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG	SEVY03CB-PMS-CC
453	254	B	1.30E-11	0.99024	1E4327NK-R00-LFO	* DG0-GEN-LF-FTR	DG2V03CB-PMS-CC	IE-LOSP
454					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
455	253	B	1.30E-11	0.99034	1E4327NY-R00-LFO	* AP040K2-R00-LFO	DG2B-GEN-LF-FTR	IE-LOSP
456					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
457	252	B	1.30E-11	0.99044	AP040K2-R00-LFO	* C00G01P-PMS-CC	DG2B-GEN-LF-FTR	IE-LOSP
458					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG
459	250	B	1.30E-11	0.99054	AP040K2-R00-LFO	* DUV-R00-COM-CC	DG2B-GEN-LF-FTR	IE-LOSP
460					Q1	RA-8-10H	RA-9-2H	RCICRMCOOL-FLAG

APPENDIX B

Description of Dominant Basic Events

Table B.1

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
1E36YB-V-UUM	Bus 236Y unavailable due to maintenance, fails RHR B, SBLC B, and partial RCIC actuation.
1E41YA-V-UUM	Bus 241Y unavailable due to maintenance, fails train B emergency power.
1E42YB-V-UUM	Bus 242Y unavailable due to maintenance, fails train A emergency power.
1E4327NX-ROO-LFO	Fault in relay in circuit breaker 2432 actuation circuit, fails load shed for HPCS DG"2B", fails train C emergency power.
1E4327NXCP2-LFOO	Fault in contact pair in circuit breaker 2432 actuation circuit, fails load shed for HPCS DG"2B", fails train C emergency power.
1E4327NY-ROO-LFO	Fault in relay in circuit breaker 2432 actuation circuit, fails load shed for HPCS DG"2B", fails train C emergency power.
1E4327NYCP2-LFOO	Fault in contact pair in circuit breaker 2432 actuation circuit, fails load shed for HPCS DG"2B", fails train C emergency power.
1E433AAX-AOO-LFO	Fault in auxiliary contacts in DG"2B" room cooling fan control circuit, fails train C emergency power.
1EB1311X-BCO	Fault of 125 VDC control power circuit breaker, fails circuit breaker 2432, fails load shed for HPCS DG"2B", fails train C emergency power.
1EB1312X-BCO	Failure of 125 VDC control power circuit breaker to DG"2B", fails train C emergency power.
1EB1313X-BCO	Failure of 125 VDC control power circuit breaker to DG"2B", fails train C emergency power.
1EB1315X-BCO	Failure of 125 VDC control power circuit breaker to DG"2B", fails train C emergency power.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
1EB16211-BCO	Failure of circuit breaker 16211, fails CPCS pump ODG01P power, fails LPCS, RCIC, LPCI tr A, and DG"0".
1EB16212-BCO	Failure of circuit breaker 16212, fails CPCS pump 2DG01P power, fails LPCI tr B and C, and DG"2A".
1EB1Y13X-BCO	Failure of 125 VDC control power circuit breaker to DG"0", fails train A emergency power.
1EB1Y22X-BCO	RHR pump A control power circuit breaker 1EB1Y22X fails open, fails RHR train A.
1EB211YX-BCO-LF	DC circuit breaker to DC bus 211Y fails open, fails train A DC power to ECCS systems, fails RHR train A.
1EB212YX-BCO-LF	DC circuit breaker to DC bus 212Y fails open, fails train B DC power to ECCS systems, fails RHR train B.
1EB233A-BCC-AS	Circuit breaker to bus 233 control circuit fails, overloads DG"0" on loss of normal power, fails train A of emergency power.
1EB233A-BCC-LF	Circuit breaker to bus 233 local fault, overloads DG"0" on loss of normal power, fails train A emergency power.
1EB234B-BCC-CC	Circuit breaker to bus 234 control circuit fails, overloads DG"2A" on loss of normal power, fails train B of emergency power.
1EB234B-BCC-LF	Circuit breaker to bus 234 local fault, overloads DG"2A" on loss of normal power, fails train B emergency power.
1EB235A-B-U/M	AC circuit breaker to 235X and 235Y unavailable due to maintenance, fails train A of AC power and RHR train A.



Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
1EB235A-BCO-LF	AC circuit breaker to 235X and 235Y fails open, fails train A of AC power and RHR train A.
1EB235XA-BCO-LF	AC circuit breaker to 235X fails open, fails train A of AC power, RHR train A, DG "O" cooling.
1FB235YA-BCO-LF	AC circuit breaker to 235Y fails open, fails train A of AC power and RHR train A, and LPCS.
1EB236B-B-UUM	AC circuit breaker to 236X and 236Y unavailable due to maintenance, fails train B of AC power and RHR train B.
1EB236B-BCO-LF	AC circuit breaker to 236X and 236Y fails open, fails train B of AC power and RHR train B.
1EB2Y14X-BCO	Failure of 125 VDC control power circuit breaker to DG"2A", fails train B emergency power.
1EB2Y22X-BCO	RHR pump B control power circuit breaker 1EB2Y22X fails open, fails RHR train B.
1EB35Y2X-BCO-LF	AC circuit breaker to 235Y-2 fails open, fails train A of AC power and RHR train A, and LPCS.
1EB36X3X-BCO-LF	Circuit breaker to bus 236X-3 fails open, fails AC charging to 125 VDC battery train B.
1EB36XB-BCO-LF	AC circuit breaker to 236X fails open, fails train B of AC power, RHR train B, and DG "2A" cooling.
1EB36Y1X-BCO-LF	AC circuit breaker to 235Y-1 fails open, fails train B of AC power and RHR train B.
1EB36YB-B-UUM	AC circuit breaker to 236Y unavailable due to maintenance fails train B of AC power and RHR train B.
1EB36YB-BCO-LF	AC circuit breaker to 236Y fails open, fails train B of AC power and RHR train B.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
1EB412A-BCC-CC	Failure of control circuit for circuit breaker 2412, fail to open, overloads DG"0" on loss of normal power, fails train A of emergency power.
1EB412A-BCC-LF	Local fault of circuit breaker 2412 to open, overloads DG"0" on loss of normal power, fails train A of emergency power.
1EB413A-BOO-CC	Failure of control circuit for circuit breaker 2413, fails open, fail to load DG"0" on loss of normal power, fails train A emergency power.
1EB413A-BOO-LF	Local fault of circuit breaker 2413, fails open, fail to load DG"0" on loss of normal power, fails train A emergency power.
1EB422B-BCC-CC	Failure of control circuit for circuit breaker 2422, fail to open, overloads DG"2A" on loss of normal power, fails train B of emergency power.
1EB422B-BCC-LF	Local fault of circuit breaker 2422 to open, overloads DG"2A" on loss of normal power, fails train B of emergency power.
1EB423B-BOO-CC	Failure of control circuit for circuit breaker 2423, fails open, fail to load DG"2A" on loss of normal power, fails train B emergency power.
1EB423B-BOO-LF	Local fault of circuit breaker 2423, fails open, fail to load DG"2A" on loss of normal power, fails train B emergency power.
1EB425B-BCC-CC	Failure of control circuit for circuit breaker 2425, fail to open, overloads DG"2A" on loss of normal power, fails train B of emergency power.
1EB425B-BCC-LF	Local fault of circuit breaker 2425 to open, overloads DG"2A" on loss of normal power, fails train B of emergency power.
1EB432C-BCC-CC	Failure of control circuit for circuit breaker 2432, fail to open, overloads DG"2B" on loss of normal power, fails train C of emergency power.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

<u>Basic Event</u>	<u>Description</u>
1EB432C-BCC-LF	Local fault of circuit breaker 2432 to open, overloads DG"2B" on loss of normal power, fails train C of emergency power.
1EB433C-B00-CC	Failure of control circuit for circuit breaker 2433, fails open, fail to load DG"2B" on loss of normal power, fails train C emergency power.
1EB433C-B00-LF	Local fault of circuit breaker 2433, fails open, fail to load DG"2B" on loss of normal power, fails train C emergency power.
1EB43C-BC0-LF	AC circuit breaker to 243-1 fails open, fails train C of AC power and HPCS.
1EK18A1BCP6-LFOO	Fault in contact pair in DG"0" room cooling fan control circuit, fails train A emergency power.
1EK18ABCP6-LFOO	Fault in contact pair in actuation circuit for DG"2A" room cooling fan, fails train B emergency power.
1EK18ARC-ROO-LFO	Fault in relay coil in actuation circuit for DG"2A" room cooling fan, fails train B emergency power.
22C1AAX-A00-LFO	Fault in auxiliary contacts in southwest cubicle room cooling fan control circuit, fails HPCS.
2431B6DX-BCO-LF	Local fault of DG"2B" circuit breaker, fails room cooling fan, fails train C emergency power.
2DG01PK18CA-LFOO	Local fault of contact pair results in CSCS pump 2DG01P failing to start, fails LPCI tr B and C, and DG"2A".
2DG01PSC-000-LFO	DG RPM switch failure results in CSCS pump 2DG01P failing to start, fails LPCI tr B and C, and DG"2A".
2DG1PK18 F00-LFO	Relay coil failure results in CSCS pump 2DG01P failing to start, fails LPCI tr B and C, and DG"2A".

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
2WR168B-POC-LF	Local fault of pressure regulating valve in RBCCW system, fails cooling to drywell pneumatic compressor DSNOCBB.
36X28D3X-BGO-LF	Local fault DG"2A" circuit breaker for dampers, fails train B emergency power.
AP037X3-ROO-LFO	Failure of relay in undervoltage circuit for bus 241Y, fails circuit breaker 2413 to DG"0", fails train A emergency power.
AP037X4CP1-LFCG	Failure of contact pair to LPCI pump A, fails RHR A.
AP039X2-ROO-LFO	Failure of relay in undervoltage circuit for bus 242Y, fails circuit breaker 2422, overloads DG"2A", fails train B emergency power.
AP039X2CP4-LFOO	Failure of contact pair in undervoltage circuit for bus 242Y, fails circuit breaker 2422, overloads DG"2A", fails train B emergency power.
AP040X2-ROO-LFO	Failure of relay in undervoltage circuit for bus 242Y, fails circuit breaker 2425, overloads DG"2A", fails train B emergency power.
AP040X2CP7-LFOO	Failure of contact pair to circuit breaker 2425, overloads DG"2A", fails train B emergency power.
AP040X4CP1-LFCO	Failure of contact pair to LPCI pump B, fails RHR B.
AP251X2CP4-LFOO	Failure of contact pair in circuit breaker 2412 actuation system, overloads DG"0" on loss of normal power, fails train A emergency power.
BATT-BETA	Beta factor for battery common mode failure, combined with random battery failure results in failure of all DC.
BATT-FTDP	Random failure of battery, when combined with beta factor results in common cause failure of all DC power.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
CODG01F-PLG-LF	Strainer ODC01F plugging in CPCS fails cooling to train A DG, fails LPCS, RCIC, LPCI tr A, and DG"0".
CODG01F-S-UUM	Strainer ODC01F maintenance in CPCS fails cooling to train A DG, fails LPCS, RCIC, LPCI tr A, and DG"0".
CODG01P-P-UUM	Pump ODC01P maintenance in CPCS fails cooling to train A DG, fails LPCS, RCIC, LPCI tr A, and DG"0".
CODG01P-PMS-CC	Pump ODC01P control circuit fault in CPCS fails cooling to train A DG, fails LPCS, RCIC, LPCI tr A, and DG"0".
CODG01P-PMS-LF	Pump ODC01P local fault in CPCS fails cooling to train A DG, fails LPCS, RCIC, LPCI tr A, and DG"0".
C2DG01F-PLG-LF	Strainer 2DG01F plugging in CPCS fails cooling to train B DG, fails LPCI tr B and C, and DG"2A".
C2DG01F-S-UUM	Strainer 2DG01F maintenance in CPCS fails cooling to train B DG, fails LPCI tr B and C, and DG"2A".
C2DG01P-P-UUM	Pump 2DG01P maintenance in CPCS fails cooling to train B DG, fails LPCI tr B and C, and DG"2A".
C2DG01P-PMS-CC	Pump 2DG01P control circuit fault in CPCS fails cooling to train B DG, fails LPCI tr B and C, and DG"2A".
C2DG01P-PMS-LF	Pump 2DG01P local fault in CPCS fails cooling to train B DG, fails LPCI tr B and C, and DG"2A".
CC002SC-000-LFG	Fault of DG RPM switch, fails CPCS pump CSC002, fails southwest room cooling and DG"2B" cooling, fails LPCI.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
CCB0DG1P-BCO-LF	Power circuit breaker for CSCS pump ODG01P from 235X fails open, fails LPCS, RCIC, LPCI tr A, and DG"0".
CCB2DG1P-BCO-LF	Power circuit breaker for CSCS pump 2DG01P from 236X fails open, fails LPCI tr B and C, and DG"2A".
CCBC002-BCO-LF	CSCS pump 2E22-C002 power breaker failure, fails HPCS.
CONT-LEAK	Containment overpressure without venting results in containment leakage (the complement is rupture).
CRD-REALIGN-OE	Operators fail to realign the CRD system (two pumps available) in 8 hours.
CRD1-REALIGN-OE	Operators fail to realign the CRD system (one pump available) in 12 hours.
CSC02K18-ROO-LFO	Fault in relay coil in DG"2B" CSCS cooling water pump CSCC002, fails train C emergency power.
CSC02K18CP5-LFOO	Fault of contact pair in CSCS pump CSCC002, fails southwest room cooling and DG"2B" cooling, fails HPCS.
CSCC002-P-UUM	CSCS pump 2E22-C002 maintenance, fails HPCS.
CSCC002-PMS-CC	CSCS pump 2E22-C002 control circuit failure, fails HPCS.
CSCC002-PMS-LF	CSCS pump 2E22-C002 local fault, fails HPCS.
CSCD300-BF-CC	HPCS CSCS strainer 2E22-D300 backflush control fails, some conditional probability of cooling failure, fails HPCS.
CSCD300-PLG-LF	CSCS strainer 2E22-D300 faults, fails HPCS.
CSCD300-S-UUM	HPCS CSCS strainer 2E22-D300 unavailable due to maintenance, fails HPCS.

Table B.1 (Continued)

## Random (Internal Vent) Basic Event Descriptions

Basic Event	Description
GSCD300A-PLG-LF	CSCS strainer 2E12-D300A faults, fails LPCS, RCIC, LPCI tr A, and DG"0".
GSCD300A-S-UUM	CSCS strainer 2E12-D300A maintenance, fails LPCS, RCIC, LPCI tr A, and DG"0".
GSCD300B-PLG-LF	CSCS strainer 2E12-D300B faults, fails LPCI tr B and C, and DG"2A".
GSCD300B-S-UUM	CSCS strainer 2E12-D300B maintenance, fails LPCI tr B and C, and DG"2A".
CSCF008A-V-UUM	CSCS MOV 2E12-F068A RHR tr A HTX outlet valve maintenance (typo) fails RHR train A HTX.
CSCF068A-VCC-CC	CSCS MOV 2E12-F068A RHR tr A HTX outlet valve fails closed, fails RHR train A HTX.
CSCF068A-VCC-LF	CSCS MOV 2E12-F068A RHR tr A HTX outlet valve fails closed, fails RHR train A HTX.
CSCF068B-V-UUM	CSCS MOV 2E12-F068B RHR tr B HTX outlet valve maintenance fails RHR train B HTX.
CSCF068B-VCC-CC	CSCS MOV 2E12-F068B RHR tr B HTX outlet valve fails closed, fails RHR train B HTX.
CSCF068B-VCC-LF	CSCS MOV 2E12-F068B RHR tr B HTX outlet valve fails closed, fails RHR train B HTX.
DOV-MOD-COM-CC	DG"0" room cooling common control system faults, fails train A emergency power.
DOVB101X-BCO-LF	Local fault of DG"0" room cooling fan circuit breaker, partial failure of power to fan, may fail train A emergency power in conjunction with other failures.
DOVB102X-BCO-LF	Local fault of DG"0" room cooling damper circuit breaker, partial failure of power to fan, may fail train A emergency power in conjunction with other failures.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
DOVB201X-BCO-LF	Local fault of DG"0" room cooling fan circuit breaker, partial failure of power to fan, may fail train A emergency power in conjunction with other failures.
DOVB202X-BCO-LF	Local fault of DG"0" room cooling damper circuit breaker, partial failure of power to fan, may fail train A emergency power in conjunction with other failures.
DAV MOD-COM-CC	DG"2A" room cooling common control system faults, fails train B emergency power.
DAVB001X-BCO-LF	Local fault of electric power circuit breaker for DG"2A" room cooling fan, fails train B emergency power.
DAVB002X-BCO-LF	Local fault of DG"2A" room cooling circuit breaker, fails damper control, fails train B emergency power.
DG-FTS-BETA	Beta factor for DC common mode failure, when combined with DG random failure fails all emergency power.
DGO-G-UUM	DG"0" unavailable due to maintenance, fails train A emergency power.
DGO-GEN-CC-FTR	DG"0" control circuit faults result in failure to run for 6 hrs, fails train A emergency power.
DGO-GEN-CC-PTS	DG"0" control circuit faults result in failure to start, fails train A emergency power.
DGO-GEN-LF-FTR	Local fault of DG"0" results in failure to run for 6 hrs, fails train A emergency power.
DGO-GEN-LF-PTS	Local fault of DG"0" results in failure to start, fails train A emergency power.
DGOV01C-F-UUM	DG"0" room cooling fan DGOV01CA unavailable due to maintenance, fails train A emergency power.



Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
DGOV01CA-FMS-CC	Control circuit fault of motor-driven fan DGOV01CA, fails room cooling to DG"0", fails train A emergency power.
DGOV01CA-FMS-LF	Local fault of motor-driven fan DGOV01CA, fails room cooling to DG"0", fails train A emergency power.
DGOV01CA-RUM-0	Failure to restore circuit breaker DOVB201X after maintenance on fan DGOV01CA for DG"0" room cooling, fails train A emergency power.
DGOV01FX-KLN-LFB	Blockage of flow in DG"0" room cooling air cleaner unit DGOV01FX, fails train A emergency power.
DGOV01YA-M-UUM	DG"0" motor-operated damper DGOV01YA unavailable due to maintenance, fails closed, fails train A emergency power.
DGOV01YA-MCC-LF	Local fault of motor-operated damper DGOV01YA for DG"0" room cooling, fails closed, fails train A emergency power.
DGOV02YA-M-UUM	DG"0" motor-operated damper DGOV02YA unavailable due to maintenance, fails open, fails train A emergency power.
DGOV02YA-MCC-LF	Local fault of motor-operated damper DGOV02YA for DG"0" room cooling, fails open, fails train A emergency power.
DGOV03YA-M-UUM	DG"0" motor-operated damper DGOV03YA unavailable due to maintenance, fails closed, fails train A emergency power.
DGOV03YA-MCC-LF	Local fault of motor-operated damper DGOV03YA for DG"0" room cooling, fails closed, fails train A emergency power.
DG2A-G-UUM	DG"2A" unavailable due to maintenance, fails train B emergency power.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

<u>Basic Event</u>	<u>Description</u>
DG2A-GEN-CC-FTR	DG"2A" control circuit faults result in failure to run for 6 hrs, fails train B emergency power.
DG2A-GEN-CC-FTS	DG"2A" control circuit faults result in failure to start, fails train B emergency power.
DG2A-GEN-LF-FTR	Diesel generator "2A" fails to run for 6 hrs, fails train B safety systems if train B normal power failed.
DG2A-GEN-LF-FTS	Diesel generator "2A" fails to start, fails train B safety systems if train B normal power failed.
DG2B-G-UUM	DG"2B" unavailable due to maintenance, fails train C emergency power.
DG2B-GEN-CC-FTR	DG"2B" control circuit faults result in failure to run for 6 hrs, fails train C emergency power.
DG2B-GEN-CC-FTS	DG"2B" control circuit faults result in failure to start, fails train C emergency power.
DG2B-GEN-LF-FTR	Local fault of DG"2B" results in failure to run for 6 hrs, fails train C emergency power.
DG2B-GEN-LF-FTS	Local fault of DG"2B" results in failure to start, fails train C emergency power.
DG2V02FX-KLN-LFB	Blockage of flow in DG"2A" room cooling air cleaner unit DG2V02FX, fails train B emergency power.
DG2V03CB-F-UUM	DG"2A" room cooling fan DG2V03CB unavailable due to maintenance, fails train B emergency power.
DG2V03CB-FMS-CC	Control circuit fault of motor-driven fan DG2V03CB, fails room cooling to DG"2A", fails train B emergency power.
DG2V03CB-FMS-LF	Local fault of motor-driven fan DG2V03CB, fails room cooling to DG"2A", fails train B emergency power.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
DG2V09YB-M-UUM	DG"2A" motor-operated damper DG2V09YB unavailable due to maintenance, fails closed, fails train B emergency power.
DG2V09YB-MCC-LF	Local fault of motor-operated damper DG2V09YB for DG"2A" room cooling, fails closed, fails train B emergency power.
DG2V10YB-M-UUM	DG"2A" motor-operated damper DG2V10YB unavailable due to maintenance, fails opened, fails train B emergency power.
DG2V10YB-MCC-LF	Local fault of motor-operated damper DG2V10YB for DG"2A" room cooling, fails open, fails train B emergency power.
DG2V11YB-M-UUM	DG"2A" motor-operated damper DG2V11YB unavailable due to maintenance, fails closed, fails train B emergency power.
DG2V11YB-MCC-LF	Local fault of motor-operated damper DG2V11YB for DG"2A" room cooling, fails closed, fails train B emergency power.
DCCOOL-BETA	CSCS DG cooling water pump common mode beta factor, in combination with random pump failure results in loss of all DG cooling, fails all emergency power.
DCCOOL-PMS-CM	CSCS pump random failure for common mode DG cooling water failure, fails all emergency power.
DGHV01CC-F-UUM	DG"2B" room cooling fan DGHV01CC unavailable due to maintenance, fails train C emergency power.
DGHV01CC-FMS-CC	Control circuit fault of motor-driven fan DGHV01CC, fails room cooling to DG"2B", fails train C emergency power.
DGHV01CC-FMS-LF	Local fault of motor-driven fan DGHV01CC, fails room cooling to DG"2B", fails train C emergency power.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
DGHV01FX-KLN-LFB	Blockage of flow in DG"2B" room cooling air cleaner unit DGHV01FX, fails train C emergency power.
DGHV01YC-M-UUM	DG"2B" motor-operated damper DGHV01YC unavailable due to maintenance, fails closed, fails train C emergency power.
DGHV01YC-MCC-LF	Local fault of motor-operated damper DG2V01YC for DG"2B" room cooling, fails closed, fails train C emergency power.
DGHV02YC-M-UUM	DG"2B" motor-operated damper DGHV02YC unavailable due to maintenance, fails open, fails train C emergency power.
DGHV02YC-MCC-LF	Local fault of motor-operated damper DGHV02YC for DG"2B" room cooling, fails open, fails train C emergency power.
DGHV03YC-M-UUM	DG"2B" motor-operated damper DGHV03YC unavailable due to maintenance, fails closed, fails train C emergency power.
DGHV03YC-MCC-LF	Local fault of motor-operated damper DGHV03YC for DG"2B" room cooling, fails closed, fails train C emergency power.
DGX-GEN-CM-FTS	Random failure of DG for common mode DG failure, fails all emergency power.
DHV-MOD-COM-CC	DG"2B" room cooling common control system faults, fails train C emergency power.
DHB001X-BCO-LF	Local fault of DG"2B" room cooling circuit breaker, fails dampers, fails train C emergency power.
DHB002X-BCO-LF	Local fault of DG"2B" room cooling circuit breaker, fails fan, fails train C emergency power.
EE-CODG01F-PLG	CSCS strainer ODG01F plugs after backflush failure, fails LPCI tr A, and DG"0".

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
EE-C2DG01F-PLG	CSCS strainer 2DG01F plugs after backflush failure, fails LPCI tr B and C, and DG"2A".
EE-CSCD300-PLG	CSCS strainer 2E22-D300 plugs after backflush failure, fails HPCS.
EE-CSCD300A-PLG	CSCS strainer 2E12-D300A plugs after backflush failure, fails RHR train A HTX and pump A seal cooler.
EE-CSCD300B-PLG	CSCS strainer 2E12-D300B plugs after backflush failure, fails RHR train B HTX and pump B seal cooler.
EE-CST-LVL	Flag representing line supplying water to HPCS pump from the CST, with other failure fails HPCS suction.
EE-MDC-DPS-B-RU	Flag for DPS compressor DPS03DAA running.
EE-MDC-IAS-AB-R	Flag for operating instrument air compressors, IAS01CAX and IAS01CBA running.
EE-MDC-IAS-CB-R	Flag for operating instrument air compressors, IAS01CBA and IAS01CCX running.
EE-MDP-PSW-BC-R	Flag for operating service water pumps, PSW01PBB and PSW01PSA running.
FLOW-RHR-A3	Flag for diversion flow around RHR train A HTX, fails RHR train A heat removal with other fault.
FLOW-RHR-B3	Flag for diversion flow around RHR train B HTX, fails RHR train B heat removal with other fault.
HACTK13CP5-LFCO	Local fault of contact pair in HPCS injection valve F004 control circuit, fails HPCS.
HACTK3-ROO-LFO	Local fault of relay coil (K3) in HPCS pump control circuit, fails HPCS.
HACTK9-ROO-LFO	Local fault of relay coil (K9) in HPCS injection valve F004 control circuit, fails HPCS.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

<u>Basic Event</u>	<u>Description</u>
HC001CB-BCO-LF	HPCS pump 2E22-C001 circuit breaker fails open, local fault, fails HPCS.
HCSC001C-P-UUM	HPCS pump 2E22-C001 unavailable due to maintenance, fails HPCS.
HCSC001C-PMS-CS	HPCS pump 2E22-C001 control circuit faults, fails HPCS.
HCSC001C-PMS-LF	HPCS pump 2E22-C001 local fault, fails HPCS.
HCSD001X-STR	HPCS suppression pool suction strainer 2E22-D302 (typo in name), local fault, fails HPCS.
HCSF001C-V-UUM	HPCS CST suction MOV F001 unavailable due to maintenance, fails HPCS.
HCSF001C-VOC-CS	HPCS CST suction MOV F001 controller fails, fails HPCS.
HCSF004C-V-UUM	HPCS injection MOV F004 unavailable due to maintenance, fails HPCS.
HCSF004C-VCC-LF	HPCS injection MOV 2E22-F004 fails closed, fails HPCS.
HCSF015C-V-UUM	HPCS suppression pool suction MOV F015 unavailable due to maintenance, fails HPCS.
HCSF015C-VCC-LF	HPCS suppression pool suction MOV 2E22-F015 fails closed, fails HPCS.
HCSF023C-VCO-CS	HPCS full flow test line MOV F023 controller faults, fails open, diverts flow to CST, fails HPCS.
HF04CSC-QOC-LF	Local fault of manual control switch in HPCS injection valve F004 control circuit, fails HPCS.
IE-LOSP	Loss of Off-Site Power (LOSP) initiating event (also called IE-T8). Loss of all off-site AC power.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
IE-SLOCA	Small (S) Loss of Coolant Accident (LOCA) as the initiating event. Depressurizes RPV slowly. Can use RCIC to mitigate. Needs ADS to be able to use LPI.
IE-T1	Transient initiator resulting from turbine trip with turbine bypa ; available.
IE-T101	Transient iritiator resulting from loss of 4160 AC bus 241Y. Loss of AC power on train A.
IE-T102	Transient initiator resulting from loss of 4160 AC bus 242Y. Loss of AC power on train B.
IE-T2	Transient initiator resulting from turbine trip with turbine bypass unavailable.
IE-T3	Transient initiator resulting from closure of all main steam isolation valves.
IE-T4	Transient initiator resulting from loss of normal condenser vacuum.
IE-T5	Transient initiator resulting from total loss of feedwater.
IE-T7	Transient initiator resulting from inadvertent stuck open safety relief valve.
IE-T9A	Transient initiator resulting from loss of DC bus A
IE-T9B	Transient initiator resulting from loss of DC bus B.
LAK10ACP9-LFOO	Contact pair for relay K10A, fails DG LOCA initiation logic.
LAK10RCA-ROO-LFO	Relay coil K10A fails, fails LPCS and LPCI actuation logic, fails DG LOCA initiation logic.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
LAK14ARC-RCO-LFO	Relay coil K.4A fails, fails train A CSS injection valves.
LAK14BRC-RCC-LFO	Relay coil K14B fails, fails train B CSS injection valves.
LAK18ACPI-LFOO	Contact pair for relay K18A fails, fails LPCI pump A, train A RHR.
LAK18APA-ROO-LFO	Relay K18A fails, fails LPCI pump A, RHR train A.
LAK18BCPI-LFOO	Contact pair for relay K18B fails, fails LPCI pump B, RHR B RHR.
LAK18BRB-ROO-LFO	Relay K18B fails, fails LPCI pump B, RHR train B.
LAK23BRC-ROO-LFO	Relay K23B fails, fails LPCI injection valve FO42B.
LAK28ACXCP4-LFCO	Contact pair for relay K28A fails, fails LPCI pump A, RHR train A.
LAK28BXCPI-LFCO	Contact pair for relay K28B fails, fails LPCI pump E, RHR train B.
LAK2ARCA-RCO-LFC	Undervoltage monitor for bus 241Y fails, fails RHR train A in conjunction with K70 below.
LAK2BRCB-RCO-LFO	Undervoltage monitor for bus 241Y fails, fails RHR train A in conjunction with K70A below.
LAK3ARCA-RCO-LFO	Undervoltage monitor for bus 242Y fails, fails RHR train B.
LAK3APCXCPI-LFCO	Contact pair for undervoltage monitor for bus 241Y fails, fails train A RHR.
LAK3BRCB-RCO-LFO	Undervoltage monitor for bus 242Y fails, fails RHR train B and C.
LAK3BRCXCPI-LFCO	Contact pair for undervoltage monitor for bus 242Y fails, fails RHR train B.



Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
LAK70ARA-ROO-LFO	Failure of 5 sec delay relay for RHR pump A, fails RHR train A in conjunction with K2A above.
LAK70BRB-ROO-LFO	Failure of 5 sec delay relay for RHR pump B, fails RHR train B in conjunction with K2B above.
LAK93ACP3-LFCC	Failure of contact pair for relay K93A in RHR heat exchanger bypass valve F048A actuation circuit, fails valve F048A open, fails RHR train A.
LAK93ARC-ROO-LFO	Failure of relay K93A in RHR heat exchanger bypass valve F048A actuation circuit, fails valve F048A open, fails RHR train A.
LAK93BCP3-LFCC	Failure of contact pair for relay K93B in RHR heat exchanger bypass valve F048B actuation circuit, fails valve F048B open, fails RHR train B.
LAK93BRC-ROO-LFO	Failure of relay K93B in RHR heat exchanger bypass valve F048B actuation circuit, fails valve F048B open, fails RHR train B.
LAK9ACP3-LFOO	Contact pair for relay K9A fails, fails LPCI pump A, RHR train A.
LAK9ARCA-ROO-LFO	Relay K9A fails, fails LPCI pump A, HTX bypass valve F048A, and LPCI injection valve F042A, fails RHR train A.
LAK9BCP3-LFOO	Contact pair for relay K9B fails, fails LPCI pump B, RHR train B.
LAK9BRCB-ROO-LFO	Relay K9B fails, fails LPCI pump B, HTX bypass valve F048B, and LPCI injection valve F042B, fails RHR train B.
LCIF42CB-VCC-LF	local fault of LPCI injection valve F042C, fails closed, fails LPCI train C.
LCSC002A-F-UUM	LPCS water leg pump 2E21-C002 maintenance, fails train A RHR due to isolation requirements.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
LCSC002A-RUM-1	Failure to restore RHR valve F098A after maintenance on LPCS water leg pump, fails RHR train A.
LPCI-BETA	Beta factor for LPCI pump common mode failure, fails all trains of RHR.
LPCI-MOV-BETA	Beta factor for LPCI MOV common mode failure, fails all trains of RHR.
LPCI-MOV-CM1	Random failure of one MOV for MOV set 1, used in conjunction with MOV beta, fails all trains of RHR.
LPCI-MOV-CM2	Random failure of one MOV for MOV set 2, used in conjunction with MOV beta, fails all trains of RHR.
LPCI-PMS-CM	Random failure for one LPCI pump used in conjunction with with pump beta factor, fails all trains of RHR.
NOFLOW-CSS-A7A	Flag for no flow in CSS train A spray line, with other faults fails CSS train A.
NOFLOW-CSS-B7A	Flag for no flow in CSS train B spray line, with other faults fails CSS train B.
NOFLOW-LCI-B7	Flag for no flow in LPCI train B injection line, with other faults fails LPCI train B.
NOFLOW-RHR-A1	Flag for no flow in RHR suction from suppression pool, with other fault fails RHR train A.
NOFLOW-RHR-B1	Flag for no flow in RHR suction from suppress pool, with other fault fails RHR train B.
NOFLOW-SPC-A5X	Flag for no flow in SPC injection line A5, with random failures fails SPC train A.
NOFLOW-SPC-B5X	Flag for no flow in SPC injection line B5, with random failures fails SPC train B.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
NWVY01AX-A-UUM	HVAC fan 2VY01C unavailable due to maintenance on air cooler 2VY01A, fails room cooling to train A of RHR.
NWVY01AX-ACX-LFI	Inadequate heat removal in northwest room air cooler 2VY01A, fails room cooling to LPC train A.
NWVY01CA-F-UUM	HVAC fan 2VY01C maintenance, fails room cooling to LPCI train A, fails RHR train A.
NWVY01CA-FMS-CC	HVAC fan 2VY01C control circuit faults, fails room cooling to LPCI train A, fails RHR train A.
NWVY01CA-FMS-LF	HVAC fan 2VY01C local fault, fails room cooling to LPCI train A, fails RHR train A.
OPFAIL-REOPN-20M	Operators fail to reopen RCIC F063 2 valve in 20 minutes.
OPFAIL-SLCOX-56M	Operators fail to start Standby Liquid Control System in 56 minutes.
OPFAIL-SLCOX-5H	Operators fail to start Standby Liquid Control System in 5 hours.
OPFAIL-VENT-20M	Operators fail to vent containment in 20 minutes in ATWS scenario.
OPFAIL-VENT-2H	Operator fails to vent containment within 2 hours of reaching setpoint.
OPFAIL-VENT-6H	Operator fails to vent containment within 6 hours of reaching setpoint.
OPFAILS-REOPEN	Operators fail to reopen RCIC F063 valve, fails RCIC.
OPFAILSCDS-OE-8M	Operators fail to control condensate system within first 8 minutes of transient.
OPFAILSMFW-8M	Operators fail to control main feedwater within first 8 minutes of transient.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

<u>Basic Event</u>	<u>Description</u>
PC02AAAX-A00-LFO	Auxiliary contacts PC02AA fail open, fails northwest room cooling fan, fails RHR train A.
Q1	Probability of one SRV sticking open after transient initiator.
Q2	Probability of two SRVs sticking open after transient initiator.
RA-1-1-10H	Manual operation within 10 hours of a system or component from the control room that has no automatic actuation or prior to its automatic operation if it has automatic actuation.
RA-1-1-27H	Manual operation within 27 hours of a system or component from the control room that has no automatic actuation or prior to its automatic operation if it has automatic actuation.
RA-1-3-13H	Manual operation within 13 hours of a system or component from the control room which failed to automatically actuate.
RA-1-3-1H	Manual operation within 1 hour of a system or component from the control room which failed to automatically actuate.
RA-1-3-27H	Manual operation within 27 hours of a system or component from the control room which failed to automatically actuate.
RA-1-3-8H	Manual operation within 8 hours of a system or component from the control room which failed to automatically actuate.
RA-15-1H	Repair of DG common mode failure within 1 hour.
RA-15-48M	Repair of DG common mode failure within 48 minutes.
RA-15-8H	Repair of DG common mode failure within 8 hours.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
RA-2-11-27H	Local operation within 27 hours of manually controlled components normally operated from the control room when control-room operation fails.
RA-3-12-2H	Failure to open RCIC isolation valve(s) within 2 hours given RCIC room isolation.
RA-3-12-68M	Failure to open RCIC isolation valve(s) within 68 minutes given RCIC room isolation.
RA-3-12-80M	Failure to open RCIC isolation valve(s) within 80 minutes given RCIC room isolation.
RA-5V-1-2H	Failure of the operators to vent within 2 hours through alternate vent path.
RA-6-4H	If one electric power train has failed, one-half of the time the recirculation pump LOCA will occur on the recirculation pump. This can be isolated. Operators fail to isolate recirculation pump seal LOCA and restore PCS.
RA-7-1-27H	Failure to locally open within 27 hours a manual valve closed due to unscheduled maintenance on RHR pump C003B. Restores heat removal.
RA-8-10H	Failure to restore offsite power within 10 hours.
RA-8-1H	Failure to restore offsite power within 1 hour.
RA-8-23H	Failure to restore offsite power within 23 hours.
RA-8-27H	Failure to restore offsite power within 27 hours.
RA-8-48M	Failure to restore offsite power within 48 minutes.
RA-8-80M	Failure to restore offsite power within 80 minutes.
RA-8-8H	Failure to restore offsite power within 8 hours.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
RA-9-10H	Failure to repair DG within 10 hours.
RA-9-1H	Failure to repair DG within 1 hour.
RA-9-23H	Failure to repair DG within 23 hours.
RA-9-27H	Failure to repair DG within 27 hours.
RA-9-2H	Failure to repair DG within 2 hours.
RA-9-48M	Failure to repair DG within 48 minutes.
RA-9-8H	Failure to repair DG within 8 hours.
RA-ATW-11-11-30M	Failure to close SBLC F016 or F017 valve within 30 minutes after the occurrence of an ATWS, given the failure to close the valves following a previous test on the SBLC system.
RA-ATWS-12-3-10M	Failure to locally close RWCU valve F004 within 10 minutes after the occurrence of an ATWS, fails SBLC due to flow diversion in ATWS.
RA-MSLDV-1-2H	Failure to depressurize RPV using main steam line drain valves in cases where venting has failed and the RPV is at high pressure.
RA-NONE	No recovery actions allowed for any event in cut set in this analysis.
RACTK17-RGO-LFO	Relay in RCIC suppression pool suction DC MOV F031 actuation circuit fails, fails RCIC.
RACTK3-ROO-LFO	Relay in RCIC injection DC MOV F013 actuation circuit fails, fails RCIC.
RACTK5-ROO-LFO	Relay in RCIC injection DC MOV F013 actuation circuit fails, fails RCIC.
RCIC001X-TDP-LF	Local fault of RCIC turbine-driven pump, fails RCIC.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
RCICRMCOOL-FLAG	Flag indicating failure of RCIC room cooling, which in conjunction with random failures in room cooling results in closure of the RCIC isolation valves, fails RCIC.
RHR301AX-STR	Suppression pool suction strainer 2E12-D301A faults, fails RHR train A.
RHR301BX-STR	Suppression pool suction strainer 2E12-D301B faults, fails RHR train B.
RHRB01AA-BOO-CC	RHR pump 2E12-C002A power breaker control circuit faults, fails RHR train A.
RHRB01AA-BOO-LF	RHR pump 2E12-C002A power breaker local fault, fails RHR train A.
RHRB01BB-BOO-CC	RHR pump 2E12-C002B power breaker control circuit faults, fails RHR train B.
RHRB01BB-BOO-LF	RHR pump 2E12-C002B power breaker local fault, fails RHR train B.
RHRC003B-P-UUM	RHR water leg pump 2E12-C003 maintenance, fails train B RHR due to isolation requirements.
RHRC003B-RUM-1	Failure to restore RHP valve F08B after maintenance on water leg pump, fails RHR train B.
RHRC02AA-P-NDUUM	RHR pump 2E12-C002A unavailable because of non-destructive maintenance, fails RHR train A.
RHRC02AA-P-UUM	RHR pump 2E12-C002A unavailable because of destructive maintenance, fails RHR train A.
RHRC02AA-PMS-LF	RHR pump 2E12-C002A local fault, fails RHR train A.
RHRC02BB-P-NDUUM	RHR pump 2E12-C002B unavailable because of non-destructive maintenance, fails RHR train B.
RHRC02BB-P-UUM	RHR pump 2E12-C002B unavailable because of destructive maintenance, fails RHR train B.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

<u>Basic Event</u>	<u>Description</u>
RHRC02BB-PMS-LF	RHR pump 2E12-C002B local fault, fails RHR train B.
RHRF47AA-V-UUM	MOV 2E12-F047A unavailable due to maintenance, fails RHR train A heat removal.
RHRF47BB-V-UUM	MOV 2E12-F047B unavailable due to maintenance, fails RHR train B heat removal.
RHRF48AA-V-UUM	MOV 2E12-F048A unavailable due to maintenance, requires lock out of injection valve, fails train A RHR.
RHRF48AA-VOO-CG	MOV 2E12-F048A fails to close, control circuit fault, diverts water from heat exchanger, fails train A RHR.
RHRF48AA-VOO-LF	MOV 2E12-F048A fails to close, local fault, diverts water from heat exchanger, fails train A RHR.
RHRF48BB-V-UUM	MOV 2E12-F048B unavailable due to maintenance, requires lock out of injection valve, fails train B RHR.
RHRF48BB-VOO-CG	MOV 2E12-F048B fails to close, control circuit fault, diverts water from heat exchanger, fails train B RHR.
RHRF48BB-VOO-LF	MOV 2E12-F048B fails to close, local fault, diverts water from heat exchanger, fails train B RHR.
RHRF51AA-N-UUM	NV 2E12-F051A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.
RHRF51BB-N-UUM	NV 2E12-F051B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.



Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
RHRF55AX-R-UUM	SRV 2E12-F055A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.
RHRF55BX-R-UUM	SRV 2E12-F055B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.
RHRF60AA-S-UUM	SOV 2E12-F060A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.
RHRF60BB-S-UUM	SOV 2E12-F060B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.
RHRF64AA-V-UUM	MOV 2E12-F064A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.
RHRF64BB-V-UUM	MOV 2E12-F064B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.
RHRF65AA-N-UUM	NV 2E12-F065A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.
RHRF65BB-N-UUM	NV 2E12-F065B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.
RHRF74AA-V-UUM	MOV 2E12-F074A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.
RHRF74BB-V-UUM	NV 2E12-F074B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.
RHRF87AA-V-UUM	MOV 2E12-F087A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
RHRF87BB-V-UUM	NV 2E12-F087B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.
RHRF88AX-R-UUM	SRV 2E12-F088A unavailable due to maintenance, requires XV 2E12-F098A to be closed, fails train A of RHR.
RHRF88BX-R-UUM	SRV 2E12-F088B unavailable due to maintenance, requires XV 2E12-F098B to be closed, fails train B of RHR.
RHRH01AX-H-UUM	RHR heat exchanger 2E12-B001A unavailable due to maintenance, fails RHR train A.
RHRH01AX-HTX-LFB	RHR heat exchanger 2E12-B001A failed due to blockage, fails train A of RHR for CHR.
RHRH01BX-H-UUM	RHR heat exchanger 2E12-B001B unavailable due to maintenance, fails RHR train B.
RHRH01BX-HTX-LFB	RHR heat exchanger 2E12-B001B failed due to blockage, fails train B of RHR for CHR.
RLOSP	Random Loss of Offsite power occurring after the fire initiating event from events outside the plant.
RPS	Mechanical failure of the reactor protection system. Failure to scram reactor using control rods.
RWCF004X-V00-CC	Reactor water cleanup system motor-operated valve RWCF004X fails open due to control circuit failure. Diverts flow from SBLC resulting in failure to shutdown in ATWS sequences.
RWCF004X-V00-LF	Reactor water cleanup system motor-operated valve RWCF004X fails open due to hardware failure. Diverts flow from SBLC resulting in failure to shutdown in ATWS sequences.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
SAK2ARCX-RCO-LFO	Failure of relay in lof2 logic for SLCF004A,B valves. Valves fail closed resulting in no Boron injection.
SAK2BRGX-RCO-LFO	Failure of relay in lof2 logic for SLCF004A,B valves. Valves fail closed resulting in no Boron injection.
SAK6ARCX-RCO-LFO	Failure of relay 6A in reactor water cleanup 2of2 logic unit resulting in failure to close valve RWCF004X. Diverts SBLC flow resulting in failure to shutdown in ATWS sequences.
SAK6BRGX-RCO-LFO	Failure of relay 6B in reactor water cleanup 2of2 logic unit resulting in failure to close valve RWCF004X. Diverts SBLC flow resulting in failure to shutdown in ATWS sequences.
SCSF06AA-DENER	Flag for MOV 2E12-F006A racked out due to maintenance on other components, fails SCS train A mode of RHR.
SCSF06AA-V-UUM	MOV 2E12-F006A unavailable due to maintenance, fails SCS train A mode of RHR.
SCSF06BB-DENER	Flag for MOV 2E12-F006B racked out due to maintenance on other components, fails SCS train B mode of RHR.
SCSF06BB-V-UUM	MOV 2E12-F006B unavailable due to maintenance, fails SCS train B mode of RHR.
SEVB001X-BCO-LF	HVAC fan 2VY03C circuit breaker, fails open, fails room cooling to train B and C of RHR.
SEVY03AX-A-UUM	HVAC fan 2VY03C unavailable due to maintenance on air cooler 2VY03A, fails room cooling to train B and C of RHR.
SEVY03AX-ACX-LFI	Inadequate heat removal in southeast room air cooler 2VY03A, fails room cooling to train B and C of RHR.

Table B.1 (Continued)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
SEVY03CB-F-UUM	HVAC fan 2VY03C maintenance, fails room cooling to train B and C of RHR.
SEVY03CB-FMS-CC	HVAC fan 2VY03C control circuit faults, fails room cooling to train B and C of RHR.
SEVY03CB-FMS-LF	HVAC fan 2VY03C local fault, fails room cooling to train B and C of RHR.
SLCC001A-P-T0001	SBLC valve SLCF031X unavailable due to test on SBLC pump A, fails SBLC.
SLCC001A-R000105	Failure to restore valve SLCF031X after test on SBLC pump A, fails SBLC.
SLCF008X-X7C-LF	SBLC valve SLCF008X failed closed, fails SBLC.
SUP-001-A-R	Severe environment induced failure of HPCS and either ADS or both LPCS and LPCI after containment failure by rupture to the reactor building.
SUR-001-A-V	Severe environment induced failure of HPCS and either ADS or both LPCS and LPCI after containment failure by venting..
SUR-001-L	Severe environment induced failure of CRD after containment failure by leak to the reactor building.
SUR-002-A-L	Severe environment induced failure of HPCS after containment failure by leak to the reactor building.
SUR-002-L	Severe environment induced failure of HPCS after containment failure by leak to the reactor building.
SUR-003-L	Severe environment induced failure of HPCS and CRD after containment failure by leak to the reactor building

Table B.1 (Continued)

Random (Internal Event) Basic Event Descriptions

Basic Event	Description
SUR-005-V	Severe environment induced failure of HPCS and either environmental failure of ADS or operator failure to use CDS or diesel driven firewater after containment failure by venting.
SUR-006-V	Severe environment induced failure of HPCS and either environmental failure of ADS or operator failure to use diesel driven firewater after containment failure by venting.
SUR-007-V	Severe environment induced failure of HPCS and operator failure to use diesel driven firewater after containment failure by venting.
SUR-008-V	Severe environment induced failure of HPCS and operator failure to use diesel driven firewater and condensate after containment failure by venting.
SUR-021-R	Severe environment induced failure of HPCS and CRD and either environmental failure of ADS or environmental failure of LFCS and operator failure to use diesel driven firewater after containment failure by rupture to the reactor building.
SUR-022-R	Severe environment induced failure of HPCS and CRD and either environmental failure of ADS or operator failure to use diesel driven firewater after containment failure by rupture to the reactor building.
SUR-023-R	Severe environment induced failure of HPCS and either environmental failure of ADS or operator failure to use CDS or diesel driven firewater after containment failure by rupture to the reactor building.
SUR-024-R	Severe environment induced failure of HPCS and either environmental failure of ADS or operator failure to use diesel driven firewater after containment failure by rupture to the reactor building.

Table B.1 (Concluded)

## Random (Internal Event) Basic Event Descriptions

Basic Event	Description
SWVB001X-BCG-LF	HVAC fan 2VY02C circuit breaker, fails open, fails room cooling to HPCS.
SWVY02AX-A-UUM	Southwest room air cooler unavailable due to maintenance, fails HPCS.
SWVY02AX-ACX-LFI	Inadequate heat removal in southwest room air cooler 2VY02A, fails room cooling to HPCS.
SWVY02CC-F-UUM	HVAC fan 2VY02C maintenance, fails room cooling to HPCS.
SWVY02JC-FMS-GG	HVAC fan 2VY02C control circuit faults, fails room cooling to HPCS.
SWVY02CC-FMS-LF	HVAC fan 2VY02C local fault, fails room cooling to HPCS.
SY-REGP-RCIC001X	Undeveloped event representing faults in the RCIC turbine regulating system, fails RCIC.
T5CDS50PERCENT	Flag for loss of feedwater initiator (T5), 50% resulting from faults in the condensate system.
T5MFS50PERCENT	Flag for loss of feedwater initiator (T5), 50% resulting from faults in the feedwater system itself.
TDRFP-T-OE-27H	Operators fail to trip turbine driven reactor feedwater pumps within 27 hours. Prohibits motor driven feedwater pump from auto starting.



## Results of the Expert Elicitations on the LaSalle Containment Failure Pressure Issue

### Elicitees:

Joe Rashid - ANATECH Research Corporation  
Rich Toland - United Engineers and Construction  
Adolf Walser - Sargent & Lundy Engineers

### Discussion:

There were four cases to be elicited:

1. Constant pressure rise with temperature less than 500 F.
2. Constant pressure rise followed by a sudden pressure spike up to the final pressure. Temperature less than 500 F.
3. Constant pressure rise with temperature increasing to 800 F and later to 1200 F.
4. Containment at atmospheric pressure and temperature at 800-1200 F. Assess any additional probability of drywell leakage. This occurs after case 1, 2, or 3.

For LaSalle eight different failure modes and location combinations are potentially important: (1) wetwell leak above water line (WWLaW), (2) wetwell rupture above water line (WWRaW), (3) wetwell leak at the springline (WWLbW), (4) wetwell rupture at the springline (WWRbW), (5) drywell leak (DWL), (6) drywell rupture (DWR), (7) drywell head leak (DWHL), and (8) drywell head rupture (DWHR). These combinations were selected for the following reasons:

1. At LaSalle, the distinction between rupture and catastrophic rupture is not important since the effects on the systems and the reactor building are much the same. The effect on the reactor building was assessed to be minimal by the expert review group. Therefore, the catastrophic rupture mode probabilities were distributed to the appropriate other rupture modes as indicated in each experts elicitation description.
2. The distinction of leaks vs ruptures is potentially important for the systems response and the timing of various events in the accident sequence. A leak is defined such that the containment depressurizes slowly and the pressure hangs up above the ADS reclosure pressure so that low pressure injection systems cannot be used.
3. The distinction of above the suppression pool water level or at the springline is potentially important for two reasons: (1) for



cases without core damage, the water level will fall below the downcomer level if failure occurs at the springline (the water is held up in the annular region in the reactor building) and pool will be bypassed for pressure suppression but scrubbing will occur before exiting the containment, and (2) for cases with core damage, the core will wind up in the lower reactor pedestal and the pool will be bypassed in all cases except if the failure is at the springline (in that case some scrubbing of the release will occur before exiting the containment).

For each of the cases, the experts assessed failure probabilities over slightl different ranges and their values had to be extrapolated both above and below their assessed range. In the lower direction, a failure probability of zero was assigned since these pressures were below the experts' lowest failure pressure. The conditional probabilities of failure in the various modes at a given pressure were assigned the same values as at the experts' lowest assessed pressure. Above the assessed range, the experts' curves were extended as described in each case.

Use in the Accident Progression Event Tree (APET) and Front End Analysis

The results will be used in the APET in the following way:

1. A question is asked in the APET: For this time period did containment fail? We will go to a distribution for containment load pressure and select a load pressure; then we will go to the appropriate containment failure pressure distribution for that case and select a failure pressure. If the failure pressure is less than the containment load pressure, then failure occurs with 1.0 probability. Therefore; since the distributions are used to select the failure and load pressures, we will wind up going down the failure branch in the APET with some relative frequency in the LHS sample.
2. The next question asked in the APET is: What is the containment failure mode and location given failure has occurred? For this question, there are two processes by which we can reach the load pressure: (i) slow pressurization, and (ii) a fast pressure rise. For the slow case, we will select a random number between zero and one and compare this to the ordered sum of the conditional failure probabilities for the various modes from the average of the experts for the failure pressure selected in the previous question: since, when the failure pressure is reached any failure will arrest further pressure rise. The failure mode corresponding to the increment that the random number falls in will be chosen for that sample run. For the fast pressure rise, only a rupture will preclude further pressure rise so we will have to calculate the conditional probability of the various modes over the interval between the selected failure and load pressures. This will be done in a FORTRAN subroutine in the APET for each sample. The resulting



drywell. However, as a result of the MCCI expert review group, the core debris will quickly penetrate to the lower reactor pedestal region bypassing the suppression pool and resulting in high temperatures in the wetwell first. We will have to modify the results to accommodate this change.

The results of the individual assessment, our manipulation of the data into a standard format, and the aggregated results for the cases are presented in Figures C.1 through C.18.

Expert Walser's Assessment:

Walser divided the total pressure range into several subranges and assessed the cumulative failure probability at the top of each range. Walser said to linearly interpolate between points. Also, at each point, he assessed the conditional probability of occurrence of the various failure modes and locations. The tables below contain the elicited information.

Case 1 & 2

PRESSURE	CUM FAILURE PROB	CONDITIONAL PROB						
		WWLaW	DWL	DWHL	WWRaW	DWR	DWHR	CAT RUP WWaW
190	0	0	0	1	0	0	0	0
200	.5	0	0	1	0	0	0	0
230	1	.49	.21	0	0	0	0	0
250	1	0	0	0	.12	0	.12	.7

The rationale for the curve is as follows: At 162 psig, liner yielding begins; at 192 psig, rebar yielding begins; at 200 psig, DW head starts leaking (see Expert C's analysis for Leach Bottom drywell head failure in NUREG-1150\*); and, at 228 psig, concrete yielding begins. Walser stayed close to the S & L analysis as his best estimate. He thought that the DW head bolt pre-load would not be as uncertain in the lower direction as assumed in Expert C's analysis\* based on his experience.

Case 3a

PRESSURE	CUM FAILURE PROB	CONDITIONAL PROB							
		WWLaW	DWL	DWHL	WWRaW	DWR	DWHR	CAT RUP WWoW	DWH
135	0	0	0	1	0	0	0	0	0
150	.5	0	0	1	0	0	0	0	0
165	1	0	.63	.27	0	0	.1	0	0
200	1	.42	.18	0	0	.12	.28	0	0
220	1	0	0	0	.1	.2	.2	.25	.25

At high temperatures, the failure pressure decreases as the concrete properties change. This is based on average temperatures in the wall not on surface temperature. If time or temperature go to >12 hr or 1200 F then go to Case 3b.

\* R. J. Breeding, F. T. Harper, T. D. Brown, J. J. Gregory, A. C. Payne Jr., E.D. Gorham, W. Murfin, and C. N. Amos, "Evaluation of Severe Accident Risks: Quantification of Major Input Parameters, Experts' Determination of Structural Response Issues," NUREG/CR-4551, SAND86-1309, Vol. 2, Rev. 1, Part 3, Sandia National Laboratories, Albuquerque, NM, March 1992.

Case 3b

Same as Case 3a but one-half the pressure.

Case 4

No additional leakage.

In order to extend the range on the high side, we assumed that the final conditional failure probabilities remained the same for higher pressures. (This was checked with the expert and he agreed that our assumption was reasonable).

Expert Toland's Assessment:

Toland gave the information in the same format as Walser. The failure was equally probable at the various possible locations given at each pressure (except for DWHL or DWHR). The shape of the curves was not known and linear interpolation was selected.

Case 1 & 2

PRESS	CUM FAIL PROB	CONDITIONAL PROB													
		WWLaW	WWLbW	DWL	DWHL	WWRaW	WWRbW	DWR	DWHR	CAT	RUP	WWaW	WWbW	DW	DWH
150	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
175	.05	0	0	0	1	0	0	0	0	0	0	0	0	0	0
200	.3	0	0	0	.95	0	0	0	.05	0	0	0	0	0	0
225	.7	.2	.2	0	.35	.05	.05	0	.15	0	0	0	0	0	0
250	.95	.05	.05	0	.15	.2	.2	0	.2	.05	.05	.05	.05	.05	.05
275*	1	0	0	0	0	.1	.1	0	0	.4	.4	0	0	0	0

\* Expert gave values for > 250 , I assumed another 25 psig increment in order to extend to 275.

At 150 psig, if the head bolts are at 75% of specs, then you can begin to get separation and DWH leakage. At above 200 psig, you begin to reach linear failure limits. At 225 psig, you get tendon yielding.

Case 3a

PRESS	CUM FAIL PROB	CONDIT. FAIL PROB												
		WWLaW	WWLbW	DWL	DWHL	WWRaW	WWRbW	DWR	DWHR	CAT	RUP	WWaW	WWbW	DW
150	0	0	0	0	1	0	0	0	0	0	0	0	0	0
175	.3	0	0	0	.4	0	0	0	.6	0	0	0	0	0
200	.7	0	0	0	.2	0	0	0	.8	0	0	0	0	0
225	.9	0	0	.05	.05	0	0	.45	.45	0	0	0	0	0
250	.99	0	0	0	0	.225	.225	.225	.225	.025	.025	.025	.025	.025
275*	1	0	0	0	0	0	0	0	0	.25	.25	.25	.25	.25

\* Expert gave values for > 250 , I assumed another 25 psig increment in order to extend to 275.

For Cases 3a and 3b, Toland gave results only for short times as there are great uncertainties in concrete response at high temperatures with almost no data. He assessed reduction in steel properties to 80-85% of rated at 800 F and a reduction of 20-30% at 1200 F.

Case 3b

PRESSURE	CUM	CONDITIONAL PROB								CAT
	FAILURE	WWLaW	WWLbW	DWL	DWHL	WWRaW	WWRbW	DWR	DWHR	RUP
50	0	0	0	0	.5	0	0	0	.5	0
75	.5	0	0	0	.5	0	0	0	.5	0
100	1	0	0	0	0	0	0	0	1	0

In this case bolt yielding was assessed to begin at at 50-85 psig.

Case 4

No additional leakage in short term, insufficient information in long term.

Expert Rashid's Assessment:

Rashid gave his information in a slightly different format. For each case, he gave a cumulative distribution for each failure mode over the pressure range assessed.

Case 1 & 2

PRESSURE	WWLaW	DWL	DWHL	WWRaW	DWR
145	0	0	0	0	0
150	.1	.1	0	0	0
155	.25	.25	.0083	0	0
160	.5	.5	.0167	0	0
165	.75	.75	.025	0	0
170	.9	.9	.0333	0	0
175	.95	.95	.04167	.025	.025
180	1	1	.05	.1	.1
260	1	1	1	1	1

For DWHL, he said to interpolate between 150 and 180. No guidance on shape of curve from 180 to 260 for DWHL, WWRaW, and DWR for extrapolation. We plotted the given points and "eyeballed" an S curve. We linearly interpolated between 170 and 180 for WWLaW. The results of this extrapolation are:

PRESSURE	WWLaW	DWL	DWHL	WWRaW	DWR
180	1	1	.05	.1	.1
185	1	1	.06	.22	.22
190	1	1	.08	.45	.45
195	1	1	.1	.66	.66
200	1	1	.16	.75	.76
205	1	1	.22	.83	.83
210	1	1	.36	.89	.89
215	1	1	.5	.91	.91
220	1	1	.68	.94	.94
225	1	1	.78	.96	.96
230	1	1	.84	.98	.98
235	1	1	.90	.99	.99
240	1	1	.94	.993	.993
245	1	1	.97	.995	.995
250	1	1	.99	.997	.997
255	1	1	.995	.999	.999
260	1	1	1	1	1



## Case 3a

PRESSURE	WWLaW	DWL	DWL'	WWRaW	DWR	DWHL
100	0	0	0	0	0	0
110	0	0	0	0	0	.025
120	0	0	0	0	0	.05
125	.1	.1	.1	0	0	.1063
130	.25	.25	.25	0	0	.1625
135	.5	.5	.5	0	0	.2188
140	.75	.75	.75	0	0	.2750
145	.9	.9	.9	.02	.02	.3313
150	1	1	1	.1	.1	.3875
155	1	1	1	-	-	.4438
160	1	1	1	-	-	.5
220	1	1	1	1	1	1

For DWHL, Rashid said to linearly interpolate. For WWRaW, DWR, and DWHL, We "eyeballed" an S curve from the shape of the other assessed points. DWL is general drywell failure, DWL' is personal access airlock failure; add these together in the final results.

The results of this extrapolation are as follows:

PRESSURE	WWLaW	DWL	DWL'	WWRaW	DWR	DWHL
150	1	1	1	.1	.1	.3875
155	1	1	1	.22	.22	.4438
160	1	1	1	.38	.38	.5
165	1	1	1	.58	.58	.55
170	1	1	1	.72	.72	.6
175	1	1	1	.81	.81	.65
180	1	1	1	.87	.87	.7
185	1	1	1	.9	.9	.75
190	1	1	1	.92	.92	.8
195	1	1	1	.95	.95	.85
200	1	1	1	.96	.96	.9
205	1	1	1	.97	.97	.92
210	1	1	1	.98	.98	.96
215	1	1	1	.995	.995	.99
220	1	1	1	1	1	1

## Case 3b

PRESSURE	WWLaW	DWL	DWL'	DWHL	WWRaW	DWR
30	0	0	0	0	0	0
32.5	.2	.2	.2	.2	0	0
35	.5	.5	.5	.5	0	0
37.5	.8	.8	.8	.8	.05	.05
40	1	1	1	1	.2	.2
60	1	1	1	1	1	1

For WWRaW and DWR, Rashid did not assess the shape of the curve and we "eyeballed" an S curve to 60 psig which was Rashid's upper bound in order to extend to 130 psig, the assessed range of the other experts. The results of this extrapolation follow:

PRESSURE	WWLaW	DWL	DWL'	DWHL	WWRaW	DWR
40	1	1	1	1	.2	.2
42.5	1	1	1	1	.49	.49
45	1	1	1	1	.78	.78
47.5	1	1	1	1	.93	.93
50	1	1	1	1	.98	.98
52.5	1	1	1	1	.985	.985
55	1	1	1	1	.99	.99
57.5	1	1	1	1	.995	.995
60	1	1	1	1	1	1

#### Case 4

No additional leakage.

For all of expert Rashid's results, we used the following method to convert his results into the same form as the others. In order to calculate the cumulative failure probability by pressure  $i$ , we formed the product of the success probabilities of each mode and subtracted from one.  $p(j,i) = 1 - (1-p(j,i,m)) * \dots * (1-p(j,i,m))$ . For example, at 165 psig, WWLaW = .75, DWL = .75, DWHL = .025, WWRaW = 0, and DWR = 0. So  $PT(165) = 1 - (1-.75) * (1-.75) * (1-.025) * (1-0) * (1-0) = 1 - .25 * .25 * .975 * 1 * 1 = .9391$ .

In order to calculate the conditional probability of failure at a specific pressure, we used the following formula:

$$c(j,i,m) = [(2-p(j,i)-p(j,i-1)) * (p(j,i,m)-p(j,i-1,m))] / [(2-p(j,i,m)-p(j,i-1,m)) * (p(j,i)-p(j,i-1))]$$

When the probability of a particular mode went to 1.0, we set its conditional probability to zero for all higher pressures since there was no chance of that failure mode occurring in that pressure interval and calculated a new total cumulative with the remaining failure modes. For example: at 165 psig,  $c(WWLaW,165) = (2-.9391-.7542) * (.75-.50) / (2-.75-.50) * (.9391-.7542) = .5529$ .

Rashid's rationale for the various cases is:

#### Case 1 & 2

1. Wetwell wall failure above the water line and drywell wall failure - Discontinuity region at 45 psig concrete cracking occurs. Nothing can happen to the liner before major concrete cracking. At

180 psig, leakage is assured based on criteria developed in other analyses and confirmed by Sandia's 1:6 scale model. These criteria roughly state that concrete cracking occurs at  $0.75 P_D$  and  $2 P_D$  for reinforced and prestressed containments respectively; leakage occurs at  $3 P_D$  and  $2.75 P_D$  respectively; and rupture occurs at  $4 P_D$  and  $3.5 P_D$  respectively. For LaSalle, these values are adjusted as follows:  $3 P_D$ ,  $4 P_D$ , and  $5 P_D$  for cracking, leakage, and rupture pressures respectively. At high temperatures, these numbers are multiplied by 0.75 and 0.2 for 800 F and 1200 F respectively. The P-T for Case 2 is similar to Case 1 since the pre-vessel breach pressure  $P_{bf}$  is less than the lower bound of all failure modes.

2. Wetwell failure at springline - Shear failure in wall base is a delayed mode. Because of discontinuity, leakage occurs first, but because bending strain rather than membrane strain is dominant, leakage occurs at a higher pressure than above the water line.
3. Drywell failure at personnel access hatch - Relied on Sandia's test results on a CB&I hatch of similar design.
4. Drywell Head Leakage - Expert C's analysis for the Peach Bottom drywell head failure in NUREG-1150\* gave lower, median, and upper estimates. The lower estimate of 150 psig is highly improbable because of the assumptions on temperature and bolt pre-load. Therefore, the median estimate is used as a lower bound.
5. Drywell Head Rupture - Failure in the drywell head closure is of the rupture type because of the free standing shell configuration. However, the failure pressure is very high (<260 psig). The lower bound corresponds to the ultimate rupture mode of the containment, and the upper bound (350) is based on the ultimate capacity of the head.

#### Case 3a & 3b

1. At 800 F, the pressure in the containment reaches design pressure. The concrete strength has degraded to about 20%. Also, the creep rate becomes very large. These two factors cause complete loss of prestress. In effect, the containment behaves as a reinforced structure with an equivalent design pressure of 25 psig at 800 F

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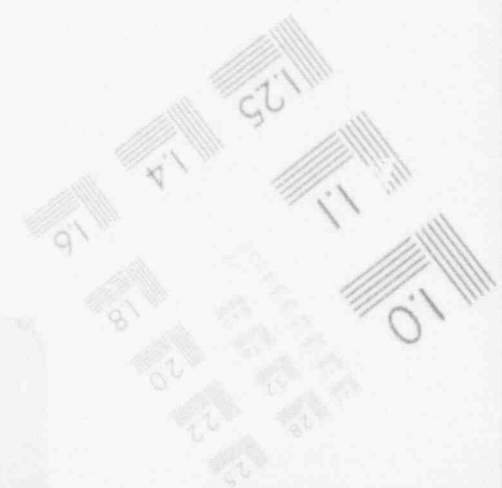
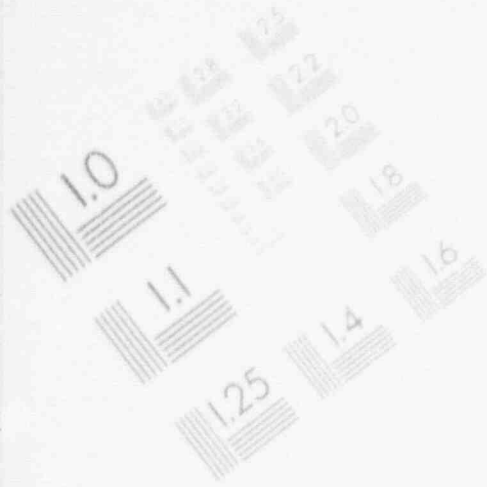
\* R. J. Breeding, F. T. Harper, T. D. Brown, J. J. Gregory, A. C. Payne Jr., E.D. Gorham, W. Murfin, and C. N. Amos, "Evaluation of Severe Accident Risks: Quantification of Major Input Parameters, Experts' Determination of Structural Response Issues," NUREG/CR-4551, SAND86-1309, Vol. 2, Rev. 1, Part 3, Sandia National Laboratories, Albuquerque, NM, March 1992.

and 5-10 psig at 1200 . At 1200 F, the structure could not support the refueling floor, associated equipment, and pool. The liner yield and rupture strengths drop to 75% at 800 F and to 10% at 1200 F. Between 800 F and 1200 F, using calculated pressurization and heating rates, the pressure increases from about 50 psig to 110 psig at 1200 F which would be precluded by prior failure. The failure pressures are adjusted to account for the above factors.

2. Failure pressure of the structure in this temperature range becomes time dependent. At the beginning (800 F), the failure pressure  $P_N$  is highest and decreases to a small number at 1200 F. Two decompositions are therefore given, one for the 800 F time, and the other for the 1200 F time.

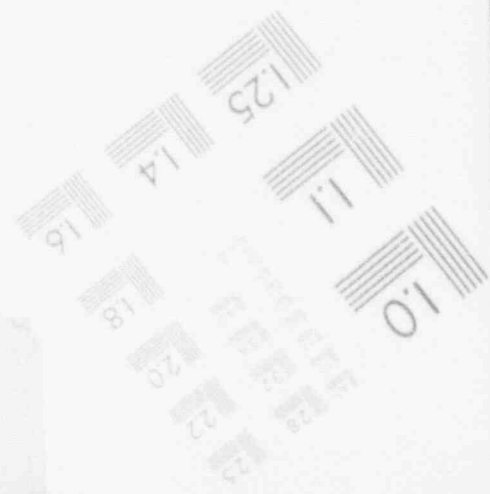
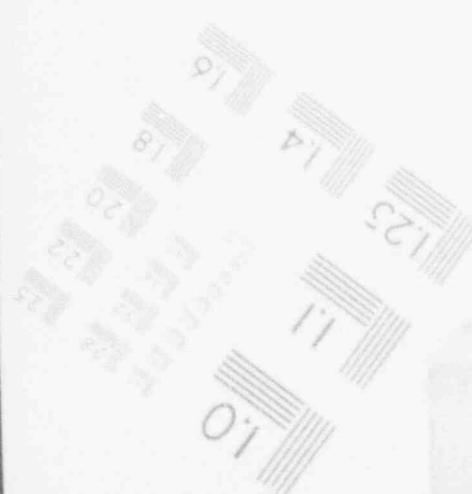
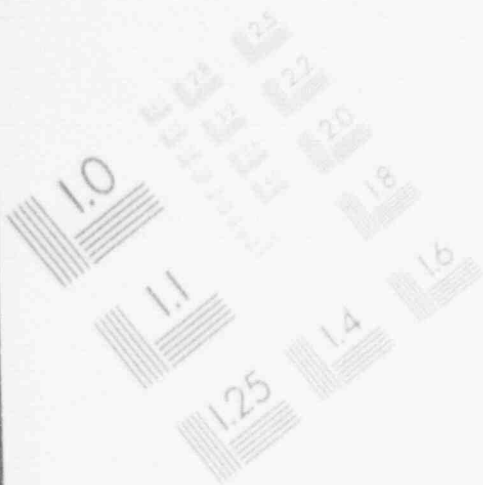
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## IMAGE EVALUATION TEST TARGET (MT-3)



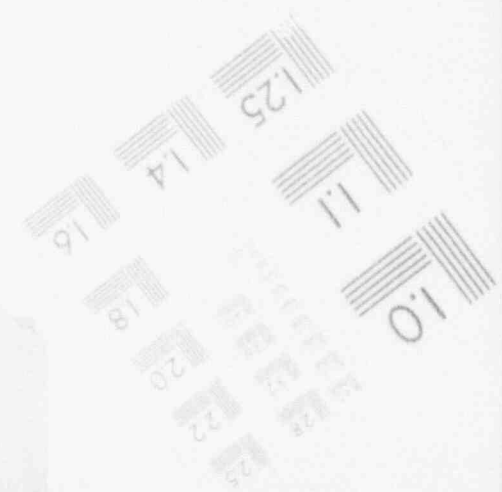
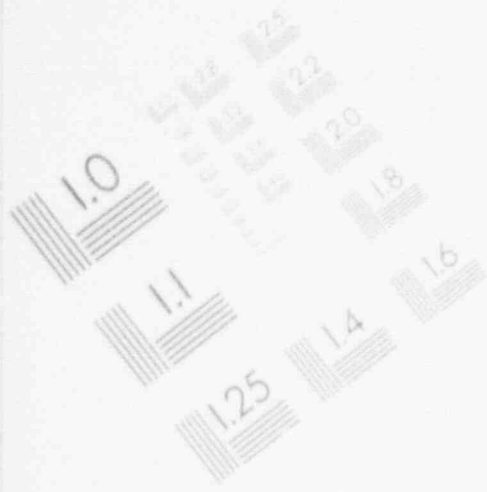
# 1

## IMAGE EVALUATION TEST TARGET (MT-3)



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## IMAGE EVALUATION TEST TARGET (MT-3)



# 1

## IMAGE EVALUATION TEST TARGET (MT-3)

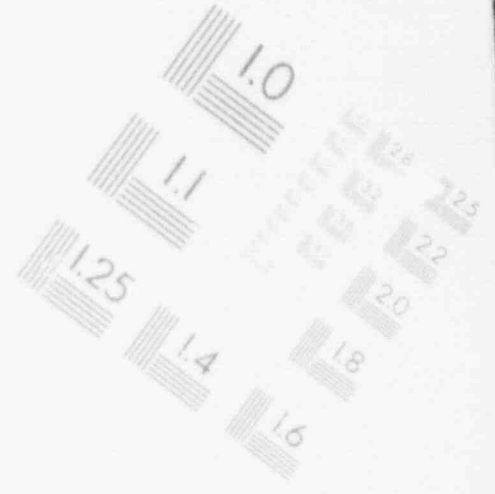
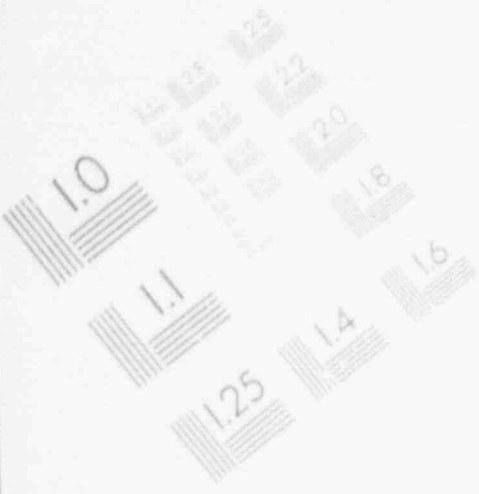




TABLE C.1  
EXPERT WALSER CASE 1 & 2

PRESSURE	CUM FAIL	PROB OF FAIL	WALSER	DMEL	WALSER	DMEL	WALSER	DMEL	WALSER	DMEL
140.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
145.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
150.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
155.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
160.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
165.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
170.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
175.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
180.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
185.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
190.0000	0.2500	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
195.0000	0.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
200.0000	0.5833	0.0817	0.0000	0.0000	0.8333	0.0000	0.0000	0.0000	0.0000	0.0000
205.0000	0.5667	0.1533	0.0000	0.0000	0.6667	0.0000	0.0000	0.0000	0.0000	0.0000
210.0000	0.7500	0.2450	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.0000
215.0000	0.8333	0.3267	0.0000	0.0000	0.3333	0.0000	0.0000	0.0000	0.0000	0.0000
220.0000	0.9167	0.4083	0.0000	0.0000	0.1667	0.0000	0.0000	0.0000	0.0000	0.0000
225.0000	1.0000	0.4867	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
230.0000	1.0000	0.3675	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
235.0000	1.0000	0.2450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
240.0000	1.0000	0.1225	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
245.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
250.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
255.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
260.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
265.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
270.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
275.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

TABLE C.2  
EXPERT TOLAND CASE 1 & 2

PRESSURE	CURB FAIL	CONDITONAL PROBABILITY OF FAILURE AT PRESSURE 1	DWEL	DWEL	WTR-AM	WTR-BH	DWR	DWER
	MM-LAW	MM-LBW	DWL	DWEL	WTR-AM	WTR-BH	DWR	DWER
140.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
145.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
150.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
155.0000	0.0100	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
160.0000	0.0200	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
165.0000	0.0300	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
170.0000	0.0400	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
175.0000	0.0500	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
180.0000	0.1000	0.0000	0.0000	0.9900	0.0000	0.0000	0.0000	0.0100
185.0000	0.1500	0.0000	0.0000	0.9800	0.0000	0.0000	0.0000	0.0200
190.0000	0.2000	0.0000	0.0000	0.9700	0.0000	0.0000	0.0000	0.0300
195.0000	0.2500	0.0000	0.0000	0.9500	0.0000	0.0000	0.0000	0.0400
200.0000	0.3000	0.0000	0.0000	0.9200	0.0000	0.0000	0.0000	0.0500
205.0000	0.3800	0.0400	0.0000	0.8300	0.0100	0.0100	0.0000	0.0700
210.0000	0.4600	0.0800	0.0000	0.7100	0.0200	0.0200	0.0000	0.0900
215.0000	0.5400	0.1200	0.0000	0.5900	0.0300	0.0300	0.0000	0.1100
220.0000	0.6200	0.1600	0.0000	0.4700	0.0400	0.0400	0.0000	0.1300
225.0000	0.7000	0.2000	0.0000	0.3500	0.0500	0.0500	0.0000	0.1500
230.0000	0.7500	0.1700	0.0000	0.3100	0.0600	0.0600	0.0000	0.1700
235.0000	0.8000	0.1400	0.0000	0.2700	0.1300	0.1300	0.0000	0.1900
240.0000	0.8300	0.1100	0.0000	0.2300	0.1700	0.1700	0.0000	0.2100
245.0000	0.8000	0.0800	0.0000	0.1800	0.2100	0.2100	0.0000	0.2300
250.0000	0.6800	0.0500	0.0000	0.1500	0.2500	0.2500	0.0000	0.2500
255.0000	0.9600	0.0400	0.0000	0.1200	0.3000	0.3000	0.0000	0.2000
260.0000	0.9700	0.0300	0.0000	0.0900	0.3500	0.3500	0.0000	0.1500
265.0000	0.9800	0.0200	0.0000	0.0600	0.4000	0.4000	0.0000	0.1000
270.0000	0.9900	0.0100	0.0000	0.0300	0.4500	0.4500	0.0000	0.0500
275.0000	1.0000	0.0000	0.0000	0.0000	0.5000	0.5000	0.0000	0.0000

TABLE C.3  
EXPERT RASHID CASE 1 & 2

PRESSURE	CONDITIONAL PROBABILITY OF FAILURE AT PRESSURE X						
	CUM FAIL	WMLW	WMLW	DWL	DWEL	WMLW	DWEL
140.0000	0.0000	0.5000	0.000	0.5000	0.0000	0.0000	0.0000
145.0000	0.0000	0.5000	0.0000	0.5000	0.0000	0.0000	0.0000
150.0000	0.1900	0.5000	0.0000	0.5000	0.0000	0.0000	0.0000
155.0000	0.4422	0.4888	0.0000	0.4888	0.0224	0.0000	0.0000
160.0000	0.7542	0.4947	0.0000	0.4947	0.0105	0.0000	0.0000
165.0000	0.9381	0.4968	0.0000	0.4968	0.0063	0.0000	0.0000
170.0000	0.9903	0.4975	0.0000	0.4975	0.0050	0.0000	0.0000
175.0000	0.9977	0.4787	0.0000	0.4787	0.0062	0.0182	0.0000
180.0000	1.0000	0.4378	0.0000	0.4378	0.0044	0.0400	0.0000
185.0000	1.0000	0.0000	0.0000	0.0000	0.0357	0.4821	0.0000
190.0000	1.0000	0.0000	0.0000	0.0000	0.0302	0.4849	0.0000
195.0000	1.0000	0.0000	0.0000	0.0000	0.0228	0.4886	0.0000
200.0000	1.0000	0.0000	0.0000	0.0000	0.0909	0.4545	0.0000
205.0000	1.0000	0.0000	0.0000	0.0000	0.0978	0.4511	0.0000
210.0000	1.0000	0.0000	0.0000	0.0000	0.1870	0.4065	0.0000
215.0000	1.0000	0.0000	0.0000	0.0000	0.3804	0.3098	0.0000
220.0000	1.0000	0.0000	0.0000	0.0000	0.3543	0.3228	0.0000
225.0000	1.0000	0.0000	0.0000	0.0000	0.3165	0.3418	0.0000
230.0000	1.0000	0.0000	0.0000	0.0000	0.1815	0.4043	0.0000
235.0000	1.0000	0.0000	0.0000	0.0000	0.2571	0.3714	0.0000
240.0000	1.0000	0.0000	0.0000	0.0000	0.4146	0.2927	0.0000
245.0000	1.0000	0.0000	0.0000	0.0000	0.5000	0.2500	0.0000
250.0000	1.0000	0.0000	0.0000	0.0000	0.5000	0.2500	0.0000
255.0000	1.0000	0.0000	0.0000	0.0000	0.2500	0.3750	0.0000
260.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000
265.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000
270.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000
275.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000

TABLE C.4  
AVERAGE OF EXPERTS CASE 1 & 2

PRESSURE	CUM FAIL	CONDITONAL PROBABILITY OF FAILURE AT PRESSURE 1	WMLJH	DWL	DWEL	WARAN	WAEHJH	DWL	DWEL
140.0000	0.0000	0.1667	0.0000	0.1667	0.6667	0.0000	0.3000	0.0000	0.0000
145.0000	0.0000	0.1667	0.0000	0.1667	0.6667	0.0000	0.0000	0.0000	0.0000
150.0000	0.0633	0.1667	0.0000	0.1667	0.6667	0.0000	0.0000	0.0000	0.0000
155.0000	0.1507	0.1629	0.0000	0.1629	0.6741	0.0000	0.0000	0.0000	0.0000
160.0000	0.2581	0.1649	0.0000	0.1649	0.6702	0.0000	0.0000	0.0000	0.0000
165.0000	0.3250	0.1656	0.0000	0.1656	0.6688	0.0000	0.0000	0.0000	0.0000
170.0000	0.3434	0.1655	0.0000	0.1655	0.6663	0.0000	0.0000	0.0000	0.0000
175.0000	0.3492	0.1596	0.0000	0.1596	0.6687	0.0061	0.0000	0.0133	0.0033
180.0000	0.3657	0.1526	0.0000	0.1526	0.6848	0.0133	0.0000	0.1607	0.0067
185.0000	0.3833	0.0000	0.0000	0.0000	0.6718	0.1607	0.0000	0.1610	0.0100
190.0000	0.4090	0.0000	0.0000	0.0000	0.6667	0.1618	0.0000	0.1610	0.0133
195.0000	0.5000	0.0000	0.0000	0.0000	0.6609	0.1629	0.0000	0.1629	0.0167
200.0000	0.6000	0.0000	0.0000	0.0000	0.6803	0.1515	0.0000	0.1515	0.0400
205.0000	0.6347	0.0406	0.0133	0.0117	0.5871	0.1537	0.0033	0.1504	0.0633
210.0000	0.7089	0.0811	0.0267	0.0233	0.5212	0.1422	0.0067	0.1355	0.0867
215.0000	0.7633	0.1217	0.0400	0.0350	0.4901	0.1133	0.0100	0.1076	0.1100
220.0000	0.8178	0.1622	0.0533	0.0467	0.3858	0.1209	0.0133	0.1199	0.1333
225.0000	0.8722	0.2028	0.0667	0.0583	0.2777	0.1396	0.0167	0.1348	0.1567
230.0000	0.9187	0.2200	0.0667	0.0700	0.1672	0.1648	0.0300	0.1288	0.1483
235.0000	0.9333	0.1692	0.0467	0.0325	0.1757	0.2355	0.0433	0.1076	0.1400
240.0000	0.9500	0.1183	0.0367	0.0350	0.2348	0.2909	0.0567	0.0983	0.1317
245.0000	0.9667	0.0675	0.0267	0.0175	0.2300	0.3583	0.0700	0.0933	0.1233
250.0000	0.9833	0.0167	0.0167	0.0000	0.2167	0.4400	0.0833	0.1033	0.1067
255.0000	0.9867	0.0133	0.0133	0.0000	0.1293	0.4983	0.1000	0.1450	0.0900
260.0000	0.9900	0.0100	0.0100	0.0000	0.1411	0.5011	0.1167	0.1311	0.0733
265.0000	0.9933	0.0067	0.0067	0.0000	0.1311	0.5178	0.1333	0.1311	0.0567
270.0000	0.9967	0.0033	0.0033	0.0000	0.1211	0.5344	0.1500	0.1311	0.0400
275.0000	1.0000	0.0000	0.0000	0.0000	0.1111	0.5511	0.1667	0.1311	0.0400

TABLE C.5  
EXPERT RASHID CASE 1 & 2 RAW DATA

PRESSURE	CUM FAIL	CUMULATIVE INDEPENDENT PROBABILITIES OF FAILURE AT PRESSURE I				DWR	DWR	DWR	DWR
		WML5W	DML	DWEL	WLR5W				
140.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
145.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
150.0000	0.1900	0.1000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000	
155.0000	0.4422	0.2500	0.2500	0.0083	0.0000	0.0000	0.0000	0.0000	
160.0000	0.7542	0.5000	0.5000	0.0167	0.0000	0.0000	0.0000	0.0000	
165.0000	0.9391	0.7500	0.7500	0.0250	0.0000	0.0000	0.0000	0.0000	
170.0000	0.9903	0.9000	0.9000	0.0333	0.0000	0.0000	0.0000	0.0000	
175.0000	0.9977	0.9500	0.9500	0.0417	0.0000	0.0000	0.0000	0.0000	
180.0000	1.0000	1.0000	1.0000	0.0500	0.1000	0.0000	0.0000	0.0000	
185.0000	1.0000	1.0000	1.0000	0.0600	0.2200	0.0000	0.0000	0.0000	
190.0000	1.0000	1.0000	1.0000	0.0800	0.4500	0.0000	0.0000	0.0000	
195.0000	1.0000	1.0000	1.0000	0.1000	0.6600	0.0000	0.0000	0.0000	
200.0000	1.0000	1.0000	1.0000	0.1600	0.7600	0.0000	0.0000	0.0000	
205.0000	1.0000	1.0000	1.0000	0.2200	0.8300	0.0000	0.0000	0.0000	
210.0000	1.0000	1.0000	1.0000	0.3600	0.8900	0.0000	0.0000	0.0000	
215.0000	1.0000	1.0000	1.0000	0.5000	0.9100	0.0000	0.0000	0.0000	
220.0000	1.0000	1.0000	1.0000	0.6800	0.9400	0.0000	0.0000	0.0000	
225.0000	1.0000	1.0000	1.0000	0.7600	0.9500	0.0000	0.0000	0.0000	
230.0000	1.0000	1.0000	1.0000	0.8400	0.9600	0.0000	0.0000	0.0000	
235.0000	1.0000	1.0000	1.0000	0.9000	0.9800	0.0000	0.0000	0.0000	
240.0000	1.0000	1.0000	1.0000	0.9400	0.9900	0.0000	0.0000	0.0000	
245.0000	1.0000	1.0000	1.0000	0.9700	0.9950	0.0000	0.0000	0.0000	
250.0000	1.0000	1.0000	1.0000	0.9900	0.9970	0.0000	0.0000	0.0000	
255.0000	1.0000	1.0000	1.0000	0.9950	0.9990	0.0000	0.0000	0.0000	
260.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	0.0000	
265.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	0.0000	
270.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	0.0000	
275.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	0.0000	

TABLE C.6  
EXPERT RASHID CASE 1 & 2 DATA CONVERSION

PRESSURE	MC,lbw	COND. PROBABILITY OF MODE AT PRESSURE I	DMR,lbw	DMR,lbw	DMR,lbw	DMR	DMR	DMR	CUM. FAIL MC, MC,lbw , DM,lbw	RFORM CONSTANT
140.0000	0.5014	0.0000	0.5014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0028
145.0000	0.5014	0.0000	0.5014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0028
150.0000	0.5014	0.0000	0.5014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0028
155.0000	0.4931	0.0000	0.4931	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0088
160.0000	0.5152	0.0000	0.5152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0413
165.0000	0.5531	0.0000	0.5531	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1132
170.0000	0.5902	0.0000	0.5902	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1863
175.0000	0.5388	0.0000	0.5388	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1256
180.0000	0.4578	0.0000	0.4578	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2000
185.0000	0.5000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2057
190.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0327
195.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0388
200.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0388
205.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0789
210.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0306
215.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1120
220.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0988
225.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1001
230.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1910
235.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2288
240.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1051
245.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1233
250.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2727
255.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4902
260.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
265.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
270.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
275.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000

TABLE C.7  
EXPERT WALSER CASE 3A

PRESSURE	CUM FAIL	MMELSH	CONDITIONAL PROBABILITY OF FAILURE AT PRESSURE I	IML	DMIL	MMRSH	MMRSH	DMR	DMR
100.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
105.0000	0.0000	0.0000	1.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
110.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
115.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
120.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
125.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
130.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
135.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
140.0000	0.1667	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
145.0000	0.3333	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
150.0000	0.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
155.0000	0.6667	0.0000	0.0000	0.2100	0.7567	0.0000	0.0000	0.0000	0.0333
160.0000	0.8333	0.0000	0.0000	0.4200	0.5133	0.0000	0.0000	0.0000	0.0667
165.0000	1.0000	0.0000	0.0000	0.6300	0.2700	0.0000	0.0000	0.0000	0.1000
170.0000	1.0000	0.0600	0.0000	0.8657	0.2314	0.0000	0.0000	0.0000	0.1257
175.0000	1.0000	0.1200	0.0000	0.9014	0.1929	0.0000	0.0000	0.0343	0.1514
180.0000	1.0000	0.1600	0.0000	0.9371	0.1543	0.0000	0.0000	0.0514	0.1771
185.0000	1.0000	0.2400	0.0000	0.9729	0.1157	0.0000	0.0000	0.0686	0.2029
190.0000	1.0000	0.3000	0.0000	0.9886	0.0771	0.0000	0.0000	0.0857	0.2286
195.0000	1.0000	0.3600	0.0000	0.9943	0.0386	0.0000	0.0000	0.1029	0.2543
200.0000	1.0000	0.4200	0.0000	0.9900	0.0000	0.0000	0.0000	0.1200	0.2800
205.0000	1.0000	0.3150	0.0000	0.1350	0.0000	0.0875	0.0000	0.1400	0.3225
210.0000	1.0000	0.2100	0.0000	0.0800	0.0000	0.1750	0.0000	0.1600	0.3650
215.0000	1.0000	0.1050	0.0000	0.0450	0.0000	0.2625	0.0000	0.1800	0.4075
220.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
225.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
230.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
235.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
240.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
245.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
250.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
255.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
260.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
265.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
270.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500
275.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.3500	0.0000	0.2000	0.4500

TABLE C. 8  
EXPERT TOLAND CASE 3A

PRESSURE	CSM FAIL.	CONDITIONAL PROBABILITY OF FAILURE AT PRESSURE 1					WABSW	DNE	LAPR2
		WMCAM	WMLW	DML	DWEL	WABSW			
100.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
105.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
110.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
115.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
120.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
125.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
130.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
135.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
140.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
145.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
150.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	
155.0000	0.0000	0.0000	0.0000	0.0000	0.8000	0.0000	0.0000	0.0000	
160.0000	0.1200	0.0000	0.0000	0.0000	0.7000	0.0000	0.0000	0.0000	
165.0000	0.1800	0.0000	0.0000	0.0000	0.5200	0.0000	0.0000	0.0000	
170.0000	0.2400	0.0000	0.0000	0.0000	0.4000	0.0000	0.0000	0.0000	
175.0000	0.3000	0.0000	0.0000	0.0000	0.3000	0.0000	0.0000	0.0000	
180.0000	0.3800	0.0000	0.0000	0.0000	0.2500	0.0000	0.0000	0.0000	
185.0000	0.4800	0.0000	0.0000	0.0000	0.2200	0.0000	0.0000	0.0000	
190.0000	0.5400	0.0000	0.0000	0.0000	0.2000	0.0000	0.0000	0.0000	
195.0000	0.6200	0.0000	0.0000	0.0000	0.1700	0.0000	0.0000	0.0000	
200.0000	0.7000	0.0000	0.0000	0.0000	0.1400	0.0000	0.0000	0.0000	
205.0000	0.7400	0.0000	0.0000	0.0000	0.1100	0.0000	0.0000	0.0000	
210.0000	0.7800	0.0000	0.0000	0.0000	0.0800	0.0000	0.0000	0.0000	
215.0000	0.8200	0.0000	0.0000	0.0000	0.0500	0.0000	0.0000	0.0000	
220.0000	0.8600	0.0000	0.0000	0.0000	0.0300	0.0000	0.0000	0.0000	
225.0000	0.9000	0.0000	0.0000	0.0000	0.0200	0.0000	0.0000	0.0000	
230.0000	0.9180	0.0000	0.0000	0.0000	0.0100	0.0000	0.0000	0.0000	
235.0000	0.9360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
240.0000	0.9540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
245.0000	0.9720	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
250.0000	0.9900	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
255.0000	0.9920	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
260.0000	0.9940	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
265.0000	0.9960	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
270.0000	0.9980	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
275.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	



TABLE C.9  
EXPERT RASHID CA'E 3A

PRESSURE	CONDM FAIL	CONDNAL PROBABILITY OF FAILURE AT PRESSURE I	DMEL	DMEL	DMEL	DMEL	DMEL	DMEL	DMEL	DMEL	DMEL	DMEL
	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH	WMLSH
100.0000	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
105.0000	0.0125	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
110.0000	0.0250	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
115.0000	0.0375	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
120.0000	0.0500	0.0000	0.0000	0.0000	0.1623	0.5779	0.5838	0.5838	0.5838	0.5838	0.5838	0.5838
125.0000	0.0625	0.2787	0.2993	0.3229	0.6210	0.6210	0.6210	0.6210	0.6210	0.6210	0.6210	0.6210
130.0000	0.0647	0.3434	0.3634	0.3834	0.6384	0.6384	0.6384	0.6384	0.6384	0.6384	0.6384	0.6384
135.0000	0.0624	0.3887	0.4087	0.4287	0.6533	0.6533	0.6533	0.6533	0.6533	0.6533	0.6533	0.6533
140.0000	0.0987	0.4355	0.4555	0.4755	0.6688	0.6688	0.6688	0.6688	0.6688	0.6688	0.6688	0.6688
145.0000	1.0000	0.0000	0.0000	0.0000	0.4355	0.4355	0.4355	0.4355	0.4355	0.4355	0.4355	0.4355
150.0000	1.0000	0.0000	0.0000	0.0000	0.2522	0.2522	0.2522	0.2522	0.2522	0.2522	0.2522	0.2522
155.0000	1.0000	0.0000	0.0000	0.0000	0.1688	0.1688	0.1688	0.1688	0.1688	0.1688	0.1688	0.1688
160.0000	1.0000	0.0000	0.0000	0.0000	0.1204	0.1204	0.1204	0.1204	0.1204	0.1204	0.1204	0.1204
165.0000	1.0000	0.0000	0.0000	0.0000	0.1282	0.1282	0.1282	0.1282	0.1282	0.1282	0.1282	0.1282
170.0000	1.0000	0.0000	0.0000	0.0000	0.1483	0.1483	0.1483	0.1483	0.1483	0.1483	0.1483	0.1483
175.0000	1.0000	0.0000	0.0000	0.0000	0.1702	0.1702	0.1702	0.1702	0.1702	0.1702	0.1702	0.1702
180.0000	1.0000	0.0000	0.0000	0.0000	0.2584	0.2584	0.2584	0.2584	0.2584	0.2584	0.2584	0.2584
185.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
190.0000	1.0000	0.0000	0.0000	0.0000	0.3816	0.3816	0.3816	0.3816	0.3816	0.3816	0.3816	0.3816
195.0000	1.0000	0.0000	0.0000	0.0000	0.2632	0.2632	0.2632	0.2632	0.2632	0.2632	0.2632	0.2632
200.0000	1.0000	0.0000	0.0000	0.0000	0.3600	0.3600	0.3600	0.3600	0.3600	0.3600	0.3600	0.3600
205.0000	1.0000	0.0000	0.0000	0.0000	0.2727	0.2727	0.2727	0.2727	0.2727	0.2727	0.2727	0.2727
210.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
215.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
220.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
225.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
230.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
235.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
240.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
245.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
250.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
255.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
260.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
265.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
270.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333
275.0000	1.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333	0.3333

TABLE C.10  
AVERAGE OF EXPERTS' CASE 3A

PRESSURE	CUM FAIL	CONDITIONAL PROBABILITY OF FAILURE AT PRESSURE I					DMSR
		WMLSH	DML	DMSH	WMSH	DMS	
100.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000
105.0000	0.0042	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000
110.0000	0.0083	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000
115.0000	0.0125	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000
120.0000	0.0167	0.0000	0.0000	0.7208	0.0000	0.0000	0.0000
125.0000	0.0210	0.0000	0.0000	0.5223	0.0000	0.0000	0.0000
130.0000	0.0258	0.0000	0.0000	0.3654	0.0000	0.0000	0.0000
135.0000	0.0308	0.0000	0.0000	0.2595	0.0000	0.0000	0.0000
140.0000	0.0351	0.0000	0.0000	0.1878	0.0000	0.0000	0.0000
145.0000	0.0443	0.0000	0.0000	0.1313	0.0000	0.0000	0.0000
150.0000	0.0500	0.0000	0.0000	0.0926	0.0000	0.0000	0.0000
155.0000	0.0576	0.0000	0.0000	0.0674	0.0000	0.0000	0.0000
160.0000	0.0651	0.0000	0.0000	0.5435	0.0000	0.0000	0.0000
165.0000	0.0727	0.0000	0.0000	0.3832	0.0000	0.0000	0.0000
170.0000	0.0767	0.0000	0.0000	0.2670	0.0000	0.0000	0.0000
175.0000	0.0793	0.0000	0.0000	0.1951	0.0000	0.0000	0.0000
180.0000	0.0800	0.0000	0.0000	0.1488	0.0000	0.0000	0.0000
185.0000	0.0867	0.0000	0.0000	0.1111	0.0000	0.0000	0.0000
190.0000	0.0873	0.0000	0.0000	0.0877	0.0000	0.0000	0.0000
195.0000	0.0909	0.0000	0.0000	0.0682	0.0000	0.0000	0.0000
200.0000	0.0933	0.0000	0.0000	0.0552	0.0000	0.0000	0.0000
205.0000	0.0937	0.0000	0.0000	0.0482	0.0000	0.0000	0.0000
210.0000	0.0940	0.0000	0.0000	0.0428	0.0000	0.0000	0.0000
215.0000	0.0953	0.0000	0.0000	0.0384	0.0000	0.0000	0.0000
220.0000	0.0967	0.0000	0.0000	0.0344	0.0000	0.0000	0.0000
225.0000	0.0972	0.0000	0.0000	0.0311	0.0000	0.0000	0.0000
230.0000	0.0978	0.0000	0.0000	0.0284	0.0000	0.0000	0.0000
235.0000	0.0984	0.0000	0.0000	0.0264	0.0000	0.0000	0.0000
240.0000	0.0987	0.0000	0.0000	0.0244	0.0000	0.0000	0.0000
245.0000	0.0997	0.0000	0.0000	0.0228	0.0000	0.0000	0.0000
250.0000	0.0997	0.0000	0.0000	0.0211	0.0000	0.0000	0.0000
255.0000	0.0997	0.0000	0.0000	0.0194	0.0000	0.0000	0.0000
260.0000	0.0980	0.0000	0.0000	0.0178	0.0000	0.0000	0.0000
265.0000	0.0987	0.0000	0.0000	0.0161	0.0000	0.0000	0.0000
270.0000	0.0963	0.0000	0.0000	0.0144	0.0000	0.0000	0.0000
275.0000	1.0000	0.0000	0.0000	0.0111	0.0000	0.0000	0.0000

TABLE C.11  
EXPERT RASHID CASE 3A RAW DATA

PRESSURE	CUM FAIL	CUMULATIVE INDEPENDENT PROBABILITIES OF FAILURE AT PRESSURE I				DMR	DMR	DMR	DMR
		WML <sub>1</sub>	WML <sub>2</sub>	WML <sub>3</sub>	WML <sub>4</sub>	DMR	DMR	DMR	DMR
100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
105.0000	0.0125	0.0000	0.0000	0.0000	0.0000	0.0125	0.0000	0.0000	0.0000
110.0000	0.0250	0.0000	0.0000	0.0000	0.0000	0.0250	0.0000	0.0000	0.0000
115.0000	0.0375	0.0000	0.0000	0.0000	0.0000	0.0375	0.0000	0.0000	0.0000
120.0000	0.0500	0.0000	0.0000	0.0000	0.0000	0.0500	0.0000	0.0000	0.0000
125.0000	0.3485	0.1000	0.0000	0.0000	0.1900	0.1663	0.0000	0.0000	0.0000
130.0000	0.6467	0.2500	0.0000	0.0000	0.4375	0.1625	0.0000	0.0000	0.0000
135.0000	0.8024	0.5000	0.0000	0.0000	0.7500	0.2188	0.0000	0.0000	0.0000
140.0000	0.9887	0.7500	0.0000	0.0000	0.9375	0.2750	0.0000	0.0000	0.0000
145.0000	0.9997	0.8000	0.0000	0.0000	0.9900	0.3313	0.0200	0.0000	0.0000
150.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.3875	0.1000	0.0000	0.0000
155.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.4438	0.2200	0.0000	0.0000
160.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.5000	0.3800	0.0000	0.0000
165.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.5500	0.5600	0.0000	0.0000
170.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.6000	0.7200	0.0000	0.0000
175.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.6500	0.8100	0.0000	0.0000
180.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.7000	0.8700	0.0000	0.0000
185.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.7500	0.9000	0.0000	0.0000
190.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.8000	0.9200	0.0000	0.0000
195.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.8500	0.9500	0.0000	0.0000
200.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.9000	0.9600	0.0000	0.0000
205.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.9200	0.9700	0.0000	0.0000
210.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.9500	0.9800	0.0000	0.0000
215.0000	1.0000	1.0000	0.0000	0.0000	1.0000	0.9800	0.9950	0.0000	0.0000
220.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
225.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
230.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
235.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
240.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
245.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
250.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
255.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
260.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
265.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
270.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000
275.0000	1.0000	1.0000	0.0000	0.0000	1.0000	1.0000	1.0000	0.0000	0.0000

TABLE C.12  
EXPERT RASHID CASE 3A DATA CONVERSION

PRESSURE	CONDITONAL PROBABILITY OF MODE AT PRESSURE I	WMLM	DM	IMH	WMLM	WMLM	DMR	CUM FAIL NO WMLM DM	NORM CONSTANT
100.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	1.0000
105.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0125
110.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0250	1.0000
115.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0375	1.0000
120.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0500	1.0000
125.0000	0.2824	0.0000	0.5632	0.1094	0.0000	0.0000	0.0000	0.1063	1.0094
130.0000	0.3063	0.0000	0.6078	0.0613	0.0000	0.0000	0.0000	0.1625	1.0233
135.0000	0.3527	0.0000	0.6782	0.0471	0.0000	0.0000	0.0000	0.2188	1.0822
140.0000	0.4206	0.0000	0.7571	0.0307	0.0000	0.0000	0.0000	0.2750	1.2248
145.0000	0.4519	0.0000	0.7838	0.0426	0.0000	0.0000	0.0000	0.3378	1.2795
150.0000	0.4355	0.0000	0.4355	0.3778	0.0000	0.0000	0.0000	0.5039	1.0000
155.0000	0.0000	0.0000	0.0000	0.1931	0.4148	0.0000	0.0000	0.5616	1.0107
160.0000	0.0000	0.0000	0.0000	0.1267	0.4628	0.0000	0.0000	0.6078	1.0227
165.0000	0.0000	0.0000	0.0000	0.1357	0.4632	0.0000	0.0000	0.6206	1.0525
170.0000	0.0000	0.0000	0.0000	0.1366	0.4499	0.0000	0.0000	0.6685	1.0581
175.0000	0.0000	0.0000	0.0000	0.1800	0.4388	0.0000	0.0000	0.9874	1.0365
180.0000	0.0000	0.0000	0.0000	0.2678	0.3842	0.0000	0.0000	0.9949	1.0362
185.0000	0.0000	0.0000	0.0000	0.3443	0.3443	0.0000	0.0000	0.9987	1.0328
190.0000	0.0000	0.0000	0.0000	0.4977	0.2785	0.0000	0.0000	0.9998	1.1053
195.0000	0.0000	0.0000	0.0000	0.2928	0.3766	0.0000	0.0000	0.9999	1.0506
200.0000	0.0000	0.0000	0.0000	0.5258	0.3143	0.0000	0.0000	1.0482	1.0482
210.0000	0.0000	0.0000	0.0000	0.6190	0.6190	0.0000	0.0000	1.0000	1.1524
215.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.8571
220.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
225.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
230.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
235.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
240.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
245.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
250.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
255.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
260.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
265.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
270.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000
275.0000	0.0000	0.0000	0.0000	0.3333	0.3333	0.0000	0.0000	1.0000	1.0000

TABLE C.13  
EXPERT WALSER CASE 3B

PRESSURE	CDM FAIL	CONDITIONAL PROBABILITY OF FAILURE AT PRESSURE I	DMZ	DMBL	WMSW	WMSW	WMSW	DMR	DWDR
30.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
32.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
37.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
40.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
42.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
45.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
47.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
50.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
52.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
55.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
57.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
60.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
62.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
65.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
67.5000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
70.0000	0.1667	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
72.5000	0.3333	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
75.0000	0.5000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
77.5000	0.6667	0.0000	0.0000	0.7567	0.2100	0.0333	0.0000	0.0000	0.0000
80.0000	0.8333	0.0000	0.0000	0.5133	0.2700	0.0000	0.0000	0.0000	0.0000
82.5000	1.0000	0.0000	0.0000	0.2314	0.0000	0.0000	0.0000	0.0000	0.0000
85.0000	1.0000	0.0600	0.5857	0.1928	0.0000	0.0000	0.0000	0.0000	0.0000
87.5000	1.0000	0.1200	0.5014	0.1543	0.0000	0.0000	0.0000	0.0000	0.0000
90.0000	1.0000	0.1800	0.4371	0.1157	0.0000	0.0000	0.0000	0.0000	0.0000
92.5000	1.0000	0.2400	0.3728	0.0771	0.0000	0.0000	0.0000	0.0000	0.0000
95.0000	1.0000	0.3000	0.3086	0.0366	0.0000	0.0000	0.0000	0.0000	0.0000
97.5000	1.0000	0.3600	0.2443	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100.0000	1.0000	0.4200	0.1800	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
102.5000	1.0000	0.4800	0.1150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
105.0000	1.0000	0.5400	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
107.5000	1.0000	0.6000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
110.0000	1.0000	0.6600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



TABLE C.15  
EXPERT RASHID CASE 3B

PRESSURE	CUM FAIL	CONDITIONAL PROBABILITY OF FAILURE AT PRESSURE I				DWR	DWRB	DWR	DWRB
		WMLM	WMLM	INC	DWRL				
30.0000	0.0000	0.2515	0.0000	0.4869	0.2515	0.0000	0.0000	0.0000	
32.5000	0.5904	0.0000	0.0000	0.4869	0.2515	0.0000	0.0000	0.0000	
35.0000	0.9375	0.2565	0.0000	0.4870	0.2565	0.0000	0.0000	0.0000	
37.5000	0.9986	0.2625	0.0000	0.4436	0.2625	0.0157	0.0000	0.0000	
40.0000	1.0000	0.2762	0.0000	0.2762	0.2762	0.0857	0.0000	0.0000	
42.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
45.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
47.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
50.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
52.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
55.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
57.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
60.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
62.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
65.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
67.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
70.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
72.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
75.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
77.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
80.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
82.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
85.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
87.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
90.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
92.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
95.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
97.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
100.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
102.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
105.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
107.5000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	
110.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.5000	0.0000	0.0000	

TABLE C.16  
AVERAGE OF EXPERTS CASE 3B

PRESSURE	CIM FAIL	CONDITIONAL PROBABILITY OF FAILURE AT PRESSURE I				DMSL	MABSW	MABSH	DMR	DMER
		MALSH	DWL	DMSL	MABSW					
30.0000	0.0000	0.0638	0.1656	0.5838	0.0000	0.0000	0.0000	0.0000	0.1667	
32.5000	0.158	0.0838	0.1656	0.5838	0.0000	0.0000	0.0000	0.0000	0.1667	
35.0000	0.3125	0.0855	0.1623	0.5835	0.0000	0.0000	0.0000	0.0000	0.1667	
37.5000	0.3328	0.0875	0.1478	0.5875	0.0000	0.0000	0.0000	0.0000	0.1667	
40.0000	0.3333	0.0821	0.0921	0.5921	0.0000	0.0000	0.0000	0.0000	0.1667	
42.5000	0.3333	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
45.0000	0.3333	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
47.5000	0.3333	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
50.0000	0.3333	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
52.5000	0.3500	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
55.0000	0.3667	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
57.5000	0.3833	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
60.0000	0.4000	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
62.5000	0.4167	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
65.0000	0.4333	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
67.5000	0.4500	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
70.0000	0.5222	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
72.5000	0.5944	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
75.0000	0.6667	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
77.5000	0.7389	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
80.0000	0.8111	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
82.5000	0.8833	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
85.0000	0.9000	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
87.5000	0.9167	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
90.0000	0.9333	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
92.5000	0.9500	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
95.0000	0.9667	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
97.5000	0.9833	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
100.0000	1.0000	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
102.5000	1.0000	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
105.0000	1.0000	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
107.5000	1.0000	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	
110.0000	1.0000	0.0000	0.0000	0.5000	0.0000	0.0000	0.0000	0.0000	0.1667	



TABLE C.17  
EXPERT RASHID CASE 3B RAW DATA

PRESSURE	CUM FAIL	CUMULATIVE INDEPENDENT PROBABILITIES OF FAILURE AT PRESSURE I	DML	DHRL	WRRAH	DNR	DNRG
39.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
32.5000	0.5904	0.2000	0.3600	0.2000	0.0000	0.0000	0.0000
35.0000	0.8375	0.5000	0.7500	0.5000	0.0000	0.0000	0.0000
37.5000	0.9986	0.8000	0.9600	0.8000	0.0000	0.0000	0.0000
40.0000	1.0000	1.0000	1.0000	1.0000	0.2000	0.2000	0.0000
42.5000	1.0000	1.0000	1.0000	1.0000	0.4900	0.4900	0.0000
45.0000	1.0000	1.0000	1.0000	1.0000	0.7800	0.7800	0.0000
47.5000	1.0000	1.0000	1.0000	1.0000	0.9300	0.9300	0.0000
50.0000	1.0000	1.0000	1.0000	1.0000	0.9800	0.9800	0.0000
52.5000	1.0000	1.0000	1.0000	1.0000	0.9850	0.9850	0.0000
55.0000	1.0000	1.0000	1.0000	1.0000	0.9900	0.9900	0.0000
57.5000	1.0000	1.0000	1.0000	1.0000	0.9950	0.9950	0.0000
60.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
62.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
65.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
67.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
70.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
72.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
75.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
77.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
80.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
82.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
85.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
87.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
90.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
92.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
95.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
97.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
100.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
102.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
105.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
107.5000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
110.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000

TABLE C.18  
EXPERT RASHID CASE 3B DATA CONVERSION

PRESSURE	CONDITONAL PROBABILITY OF MODE AT PRESSURE I	WMLWH	DNL	DML	WMLWH	WMLWH	DML	DMLR	CUM FAIL MO WMLWH, DML DMLR	NORM CONSTANT
50.0000	0.2653	0.0000	0.5241	0.2653	0.0000	0.0000	0.0000	0.0000	0.0000	1.0547
52.5000	0.2653	0.0000	0.5241	0.2653	0.0000	0.0000	0.0000	0.0000	0.0000	1.0547
55.0000	0.3136	0.0000	0.5660	0.3136	0.0000	0.0000	0.0000	0.0000	0.0000	1.2238
57.5000	0.4482	0.0000	0.7573	0.4482	0.0000	0.0000	0.0000	0.0000	0.0000	1.7074
60.0000	0.2762	0.0000	0.2762	0.2762	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
62.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
65.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
67.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
70.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
72.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
75.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
77.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
80.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
82.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
85.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
87.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
90.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
92.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
95.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
97.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
100.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
102.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
105.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
107.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
110.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000

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10. SUPPLEMENTARY NOTES

11. ABSTRACT (200 words or less)

This volume presents the methodology and results of the internal event accident sequence analysis of the LaSalle Unit II nuclear power plant performed as part of the Level III Probabilistic Risk Assessment being performed by Sandia National Laboratories for the Nuclear Regulatory Commission. The total internal core damage frequency has a mean value of  $4.41E-05/R\text{-yr.}$ , with a 5th percentile of  $2.05E-6/R\text{-yr.}$ , a median value of  $1.64E-05/R\text{-yr.}$ , and a 95th percentile of  $1.39E-04/R\text{-yr.}$  The dominant sequences involve a loss of off-site power (LOSP), immediate or delayed failure of on-site AC power resulting in station-blackout, and failure of the reactor core isolation cooling system (RCIC). The events most important to risk reduction are: frequency of LOSP, non-recovery of offsite power within one hour, diesel generator (DG) cooling water pump common mode failure, and non-recoverable isolation of RCIC during station blackouts. The events most important to risk increase are: failure of various AC power circuit breakers resulting in partial loss of onsite AC power, failure to scram, and DG cooling water common mode failure. The dominant contributors to uncertainty are: control circuit failure rates, relay coil failure to energize, energized relay coil failing deenergized, frequency of LOSP, and DG failure to start.

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