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4B	4B-24	720.027
4B	4B-74	Editorial
6	6-9	720.025 (720.029)
6	6-12	720 025 (720.029) Editorial
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6	6-19 through 6-53	720.023 (720.024) (720.097)
6	6-62	720.031
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8	8-23 and 8-25	Editorial
12	12-6	720.033
12	12-30	720.033
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28	28-10 and 28-11	Editorial
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34	34-4 and 34-5	720.042
34	34-6 and 34-7	720.042 Editorial
34	34-8 through 34-243	720.042
35	35-28	720.043
39	39-4	720.073 Editorial
39	39-5	720.088 (720.048, 720.074, 720.083, 720.089)
39	39-6	720.088 720.073 (720.048, 720.074, 720.083, and 720.089)
39	39-12	Editorial
39	39-19	Editorial
39	39-20	720.073
39	39-21	Editorial 720.088
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41	41-6	720.042
41	41-15	720 093
41	41-20	720.054
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43C	43C-1 and 43C-2	720.043
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49	49-1	720.056
49	49-4 through 49-6	720.056
49	49-9 through 49-49	720.056
50	50-14	720.034
57	57-1 through 57-109	Letter DCP/NRC1515
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57D	57D-1 through 57D-7	Letter DCP/NRC1515
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59	59-23 through 59-25	Letter DCP/NRC1515
59	59-26	720.056
59	59-28	Editorial
59	59-29 through 59-32	720.038
59	59-34 through 59-38	720.038
59	59-72	Editorial
59	59-73	Technical
59	59-83	Editorial
59	59-75 through 59-96	720.038
59	59-97	720.038 720.066
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Appendix A	A-1 through A-166	720.007 720.010 720.011 720.012 720.013 720.015 720.016

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Appendix D	D-14 and D-15	720.078
Appendix D	D-31	720 078
Appendix D	D-35 and D-36	Technical
Appendix D	D-37 through D-58	720 078

1. Changes incorporated as a result of Westinghouse responses to NRC Request for Additional Information (RAI) identified by RAI number. RAI number in parenthesis contains a reference to RAI response listed above.

CHAPTER 49

OFFSITE DOSE RISK QUANTIFICATION

49.1 Introduction

The potential ground-level exposure, expressed as both effective dose equivalent (EDE) whole-body dose and acute red bone marrow dose, resulting from the possible accidental release of radioactive fission products is discussed in this chapter. Chapter 45 provides the estimated source term information; that is, the accidental release conditions. These conditions are:

- The amount of released material
- Release energy
- Duration
- Location

for the six identified release categories.

This information is used here, along with data provided in the Electric Power Research Institute (EPRI) Advanced Light Water Reactor Utility Requirements Document (Reference 49-1), to perform the atmospheric dispersion analyses. These analyses are conducted to estimate the EDE whole-body dose and acute red bone marrow dose, both at the site boundary (0.5 miles). The population whole-body dose out to 80.5 kilometers and the downwind, centerline, ground-level thyroid dose at the site boundary (0.5 miles) are also calculated for information. The estimated site boundary whole-body dose and the acute red bone marrow dose are compared to the Westinghouse goal of <25 rems (0.25 sieverts), at a frequency not to exceed 1×10^{-6} per year. This is consistent with the goal provided in Reference 49-1.

It should be noted that Reference 49-1 recommends evaluation of the whole-body dose. However, it does not clearly identify whether this dose analysis should be based on an acute or committed dose (EDE) basis. Consequence codes such as the MELCOR Accident Consequence Code System (MACCS and MACCS2) and their predecessor CRAC2 (codes are recommended by Reference 49-1) can only calculate the EDE whole-body dose, therefore the committed dose has been used in previous ALWR analyses. It is felt however, that the whole-body acute centerline dose is more appropriate for this 25 rem dose calculation since the purpose of this calculation is to establish a margin to the Nuclear Regulatory Commission (NRC) safety goals and the NRC staff safety goal implementation requirement. In this context, it is acute health effects versus long term effects from a committed dose that are of significance. For consequence codes such as MACCS2, the acute red bone marrow dose may be used to represent the acute whole-body dose. These doses are determined at the site boundary (0.5-mile radius).

The thyroid (site boundary) and whole-body (population) doses are also calculated during the first 24 and 72 hours following the onset of core damage, based on the probabilistic atmospheric dispersion analysis of the dose associated with each release category, coupled with multiple meteorological conditions. The thyroid and population doses are provided for information.

49.2 Conformance with Regulatory Requirements

MACCS2 version 1.12 (Reference 49-2) is used for the analysis. The NRC sponsored the development of this code. The code performs probabilistic estimates of offsite consequences from potential accidental releases in conformance with Chapter 9 of the probabilistic risk assessment (PRA) guidelines described in NUREG/CR-2300 (Reference 49-3).

The analysis was based on the Westinghouse design goals, which are consistent with the guidelines provided in Reference 49-1, as discussed above. This reference document also identifies use of the MACCS2 code for offsite consequence analysis.

49.3 Assumptions

This section discusses the information, including assumptions, required to perform the dose evaluation. The primary information required for the dose evaluation includes the release source terms; the site meteorological data; population distribution data; site economic data; agricultural and land use data; and food uptake, ingestion, and retention factors. Additionally, available data on site emergency plans, such as sheltering and evacuation, and site decontamination and interdiction plans, may be included in the dose evaluation. Since the Westinghouse design goal specifies the site boundary dose as the only consequence of concern, the population, land use, sheltering, evacuation, decontamination, and interdiction data are not required for this calculation.

The advanced light water reactor reference site information described in Reference 49-1 provides the meteorological and population data for the analysis. Since the advanced light water reactor site data does not provide sufficient topographical data to define the MACCS2 site input file, the site land use and crop data are based on representative data from the Surry Plant Site. These data are provided in Reference 49-2. Due to the proximity of the Surry Site to the ocean, those site sectors that are ocean were arbitrarily changed to land. This was done to allow use of the advanced light water reactor reference site population data (without having people assigned to ocean sectors). These changes to the land and crop characteristics are made to provide an acceptable MACCS2 input file. They have no effect on the calculated dose at the plant site boundary.

49.4 Methodology

The dose evaluation uses the MACCS2 accident consequence code to estimate the potential offsite effects of the postulated accidental releases, developed by the Level 2 analysis. The MACCS2 code performs multiple air dispersion analyses, based on the yearly meteorological data, to estimate the air and ground-level concentrations of the released nuclides of concern. Multiple dispersion analyses allow the application of statistical analysis to the full range of results, based on the probability of the meteorological sequences that caused those results. This accounts for the possibility of an accident occurring at any time during the year. The air and ground-level concentrations are then converted to exposure dose, per nuclide, for the following pathways: cloudshine, groundshine, inhalation (direct and resuspended material), and ingestion. For the potential exposure during the initial 24 and 72 hours, the calculated dose does not consider the ingestion pathway.

The MACCS2 code permits evaluation of the effects associated with direct exposure to the radioactive cloud (that is, cloudshine, groundshine, and inhalation), during the period initially following the accident (up to 1 week), and the long-term (over many years) effects due to exposure to contaminated land (ingestion of local farm products, ground shine, resuspension inhalation). It also examines accident costs, which might include permanent relocation and/or decontamination. The code also permits the modeling of the protective effects of sheltering and/or evacuation of the population during the acute exposure phase.

The Westinghouse goal only requires dose determination for exposure resulting from the first 24 hours following the initiation of core damage. Additionally, the Westinghouse goal requires only the total dose to a hypothetical individual located at the site boundary, which is assumed to be one-half mile, directly downwind, during the entire exposure period. Therefore, dose calculations related to the actual site population distribution are not required, nor are calculation of potential health effects, such as deaths and cancers. Finally, the calculation of the site boundary dose ignores any potential mitigating effects, including sheltering and evacuation.

Therefore, the consequence level evaluated in this analysis includes the whole-body effective dose equivalent dose and the acute red bone marrow dose resulting from the first 24-hour exposure versus distance from the reactor.

Statistical evaluation is applied to the multiple dispersion analysis results so that the consequences are presented in terms of a mean value, a peak value, and as complementary cumulative distribution functions. These functions present the value of the consequence level (whole-body effective dose equivalent dose) versus the probability of exceeding this level. The Westinghouse goal and the Reference 49-1 guidelines provide a value for the site boundary dose, not to exceed 25 rems whole-body dose at a frequency not to exceed 1×10^{-6} events per year.

A brief description of the code follows.

The MACCS2 code performs its processing in three steps, or modules: ATMOS, EARLY, and CHRONC. The description of the source term and the dispersion calculations occur in the first module, i.e., the ATMOS module. The EARLY module performs the calculations relating to the initial exposure dose and can also account for sheltering or evacuation schemes. The CHRONC module performs the calculations relating to the long-term exposure dose (for many years) and can account for decontamination or food uptake parameters. Only the ATMOS and EARLY modules are used for this analysis.

The MACCS2 code models the atmospheric transport of fission products that are released from containment, as defined by the source term characteristics, using a Gaussian plume model, and calculates the air and ground-level concentrations for the radionuclides of concern. Vertical plume rise depends on the release energy. Plume motion depends on the available meteorological conditions; that is, wind speed, wind direction, and atmospheric stability. The code includes models for radioactive decay and daughter product buildup, wet and dry deposition of the nuclides due to gravity settling, and washout due to precipitation. Noble gases are not removed by deposition.

The MACCS2 code first reviews the hourly meteorological data for one year and sorts the data into predefined and user-defined meteorological categories. This allows MACCS2 to assess the frequency of occurrence of the different meteorological types, and to provide a realistic representation of a full year of site weather. It does this without overlooking those meteorological conditions that, although infrequent, may be instrumental in producing peak impacts. The probability of each meteorological category is also determined by this analysis.

In performing the dispersion analysis for a specific source term, the code samples each of the meteorological categories several times. The number of sampling per category is specified by the user. Each sample consists of starting the postulated release during one of the 8,760 hours during the year, which is identified with the meteorological type being sampled. This is done for each of the meteorological types. For example, if the user specifies four samples per meteorological category, and there are 30 defined meteorological categories, and if the database has at least four hours of meteorological samples per category, then 4 times 30, or 120, dispersion analyses are performed by MACCS2.

Once the release start time is selected, then the actual meteorological data is used to model the subsequent dispersion. That is, the meteorological data are allowed to change as the material moves downwind. The calculation continues until the material reaches the boundary of the spatial grid (receptor grid) defined by the user. Each dispersion simulation, therefore, results in calculated, integrated air and ground concentrations, (plume centerline, ground level) as a function of downwind distance. Each analysis is then weighted by the probability of occurrence of the meteorological condition. As each calculation is performed, the results are accumulated to provide an average estimate of the downwind integrated air and ground concentrations, including effects from all possible meteorological types. The MACCS2 code also notes the peak downwind concentration at each receptor distance and the associated meteorological condition that produced the peak.

The MACCS2 code then performs conversion calculations to estimate the radiation doses based on the air and ground concentrations. The radiation doses received by individuals are due to the passing radioactive cloud and the material deposited on the ground. Radiation doses received from the cloud result from direct radiation (cloudshine) and inhalation of material suspended in the air (inhalation). These processes occur only during the time that the cloud passes over the affected population. Radiation doses associated with the material deposited to the ground include direct radiation of the nuclides on the ground (groundshine) and inhalation of materials that are resuspended into the air (resuspension). The MACCS2 code simulates these dose paths. Therefore, the code estimates the dose levels for each nuclide and for each dispersion analysis performed.

Six release categories are identified for evaluation of potential offsite doses. These categories are discussed in detail in Chapter 45, and are summarized as the following:

- IC – Containment integrity is maintained throughout the accident, and the release of radiation to the environment is due to nominal leakage.

- BP – Fission products are released from the reactor coolant system to the environment via the secondary system or other interfacing system bypass. Containment failure occurs prior to onset of core damage.

- CI – Fission product release occurs through a failure of the system or valves that close the penetrations between containment and the environment. Containment failure occurs prior to onset of core damage.

- CFE – Fission product release occurs through a containment failure caused by some dynamic severe accident phenomena occurring after the onset of core damage but prior to core relocation. Such phenomena include: hydrogen detonation, hydrogen diffusion flame, steam explosions, and vessel failures.

- CFI – Fission product release occurs through a containment failure caused by some dynamic severe accident phenomena occurring after core relocation but before 24 hours. Such phenomena include: hydrogen detonation and hydrogen deflagration.

- CFL – Fission product release occurs through a containment failure caused by some dynamic severe accident phenomena occurring after 24 hours. Such phenomena include the failure of containment heat removal (failure of passive containment cooling).

Additionally, one sensitivity evaluation (called DIRECT) is performed. The DIRECT release case is a modification of the IC release category in which no credit is assumed for aerosol nuclide deposition in the middle annulus. This case is conservative.

Based on the analysis described in Chapter 45, source terms are generated for each of the release categories. The source terms provide the necessary parameters to describe the conditions of the release. Tables 49-1 and 49-2 contain listings of the source terms and their parameters considered in this analysis. Table 49-1 summarizes the output provided by the Modular Accident Analysis Program (MAAP) code, while Table 49-2 presents the conversion of this data into MACCS2 input categories.

There are nine source terms, six release categories, and one sensitivity study defined for this analysis. To conservatively estimate the ground-level dose exposure at the site boundary, it is assumed that all the release categories occur at ground level. Finally, it is conservatively assumed that 5 percent of the iodine released from containment is volatile and would not deposit. Reference 49-1 provides a guideline of 3 percent volatile iodine.

Reference 49-1 provides some of the MACCS2 input data, including the site, and meteorological data. The dose data conversion file provided with the MACCS2 PC Code, version 1.12 (Reference 49-2) is used for this analysis. This file is required to convert the predicted nuclide concentrations to dose values.

49.5 Dose Evaluation Results and Discussion

Doses are determined for the early exposure effects resulting from the initial 24 and 72 hours following the core damage initiation. The dose evaluation provides the conditional probability distributions for the consequence measures, which includes the whole-body dose and the acute red bone marrow dose for this analysis. These consequence probability distributions are based on the assumption that the accident that produced the source term has occurred. Therefore, the consequence probability distributions presented result from the variation in dose levels due to the various meteorological conditions. Hence, the actual

probability of the identified dose levels would be the probability of the release category that produced the source term occurring multiplied by the probability of the dose level. The actual probability of the identified dose levels is presented in Section 49.7.

Tables 49-3 through 49-6 present the summary of the dose evaluations (the MACCS2 output) for the six source terms and the DIRECT sensitivity. The information is provided in the following columns: the mean dose; the 50, 90, 95, 99, and 99.5 percent confidence values that the dose will not exceed; and the peak dose produced by any dispersion analysis. The dose (one sievert equals 100 rem) is presented for the following source terms: IC, BP, CFI, CFE, CFL, CI and DIRECT release sensitivity. Table 49-7 summarizes the calculated mean and peak dose values for the source terms evaluated.

Figures 49-1 through 49-56 present plots of the complementary cumulative distribution functions for the population whole-body, the site boundary whole-body effective dose equivalent, the acute red bone marrow and thyroid doses resulting from the following source terms: CFI, CFE, CFL, IC, BP, CI, and the DIRECT release sensitivity study.

Results in Table 49-7 show that for release categories IC and the DIRECT sensitivity study, the mean whole-body EDE dose at the site boundary in 24 hours is less than 6 rem. For all other release categories – BP, CI, CFE, CFI, and CFL – the mean dose at the site boundary in 24 hours is greater than 25 rem. The sum of the probabilities of the release categories including an intact containment excess leakage category is approximately 2.4×10^{-7} events per year for at power conditions. Therefore, for the IC and the DIRECT release categories, there is a large margin in both the dose as well as the probability for meeting the Westinghouse design goal of limiting the frequency of exceeding the 25 rem whole-body effective dose equivalent for an individual at the site boundary 24 hours after core damage to 1×10^{-6} events per year, without any emergency protective action. For the other release categories – BP, CI, CFE, CFI, and CFL – there is a large margin in the probability for meeting the Westinghouse design goal.

Results in Table 49-7 also show that for release categories IC and the DIRECT sensitivity study, the acute red bone marrow dose at the site boundary in 24 hours is less than 1 rem. For all other release categories – BP, CI, CFE, CFI, and CFL – the mean dose at the site boundary in 24 hours is greater than 25 rem. Again, the sum of the probabilities of the release categories including an intact containment excess leakage category is approximately 2.4×10^{-7} events per year for at power conditions. Therefore, for the IC and the DIRECT release categories, there is a large margin in both the dose as well as the probability for meeting the Westinghouse design goal of limiting the frequency of exceeding the 25 rem whole-body effective dose equivalent for an individual at the site boundary 24 hours after core damage to 1×10^{-6} events per year, without any emergency protective action. For the other release categories – BP, CI, CFE, CFI, and CFL – there is a large margin in the probability for meeting the Westinghouse design goal.

49.6 Quantification of Site Risk

This section documents the calculation of total radiation dose risk at the site boundary and to the surrounding population for internal, at power, initiating events. Results are quantified based on both a 24-hour and a 72-hour exposure.

The dose risks are quantified by multiplying the calculated fission product release category frequency vector by the release category mean dose vectors. The frequencies for each of the six release categories are quantified in Chapter 45, while the mean doses for each release category are identified in this section. The total dose risk for each case is calculated as:

$$D_n = \Sigma_i (R_i \times d_{i,n})$$

where:

D_n = Total dose risk for case n=1,2,3,4 (site-24-hr, site-72-hr, population-24-hr, population-72-hr),
R_i = Release frequency for category i,
$d_{i,n}$ = mean dose for release category i for case n.

As previously described, the six release categories analyzed in this calculation are designated: IC, BP, CI, CFI, CFE, and CFL.

Tables 49-8 through 49-11 present the results of the dose risk calculations. Each table presents the release category identifier, the release frequency (per reactor-year), the mean dose (in rem), and the resulting risk (in rem per reactor-year). In addition, each table presents the total dose risk and the percent that each release category contributes to the total risk.

It is shown that release category CFE presents the largest risk to the site safety in each of the four presented cases.

49.7 Risk Quantification Results

The complementary cumulative distribution function (CCDF) probabilities presented in Figures 49-1 through 49-56 are based on the assumption that the respective release category has occurred. The actual dose probability is equal to the probability of the release multiplied by the CCDF probability. Figure 49-57 summarizes this calculation for the 24 hour, whole-body, site boundary dose for all release categories, excluding the sensitivity study. Figure 49-58 summarizes this calculation for the 24 hour, acute red bone marrow, site boundary dose for all release categories, excluding the sensitivity study. In addition, a total probability-dose curve, which sums all the release categories, is provided. This figure demonstrates compliance with the large release goal (24 hour, whole-body, site boundary dose greater than 25 REM has a frequency of less than 1×10^{-6}).

49.8 References

49-1 "Advanced Light Water Reactor Utility Requirements Document," Volume III, Appendix A to Chapter 1, PRA Key Assumptions and Groundrules," EPRI, Rev. 5 & 6, December 1993.

49-2 Chanin, D., Young, M. L., "Code Manual for MACCS2, User's Guide," NUREG/CR-6613, SAND97-0594, Vol. 1, Sandia National Laboratories, U.S. Nuclear Regulatory Commission.

49-3 "PRA Procedures Guide," NUREG/CR-2300, U.S. Nuclear Regulatory Commission, Vol. 2, Chapter 9, Washington, D.C.

Table 49-1

AP1000 SOURCE TERMS FROM LEVEL 2 ANALYSIS (MAAP)

Case No.	Plume No.	Start Time (Seconds)	End Time (Seconds)	Duration (Seconds)	Release Fraction (MAAP Group) 1 Inert	2 CsI	3 TeO2	4 SrO	5 MoO2	6 CsOH	7 BaO	8 La2O3	9 CeO2	10 Sb	11 Te2	12 UO2	Plume Energy (Joules/sec) (Watts)	Plume Position
CFI	1	2930	10100	7170	2.88E-01	5.09E-03	7.92E-03	4.77E-03	1.03E-02	5.07E-03	8.12E-03	1.56E-04	1.82E-04	8.89E-03	0 00E+00	0.00E+00	0.00E+00	Leading
	2	10100	89850	79750	4.69E-01	3.50E-03	4.99E-03	9.23E-03	6.62E-03	3.49E-03	9.15E-03	1.08E-03	1.09E-03	5.96E-03	0.00E+00	0.00E+00	0 00E+00	Midpoint
	3	89850	176200	86350	6.98E-02	6.00E-06	1.00E-05	4.20E-04	1.00E-05	6.00E-06	1.70E-04	5.84E-04	5 84E-04	4.00E-05	0 00E+00	0 00E+00	0.00E+00	Midpoint
	4	176200	262600	86400	2.35E-02	0.00E+00	1.00E-05	1.50E-04	4.00E-05	0.00E+00	8.00E-05	3.23E-04	3.21E-04	4.00E-05	0.00E+00	0 00E+00	0.00E+00	Midpoint
CFE	1	3004	19810	16806	4 16E-01	5.53E-02	3.01E-02	3.14E-03	1.16E-02	5.35E-02	4.63E-03	5.57E-05	2.39E-04	2.03E-02	0.00E+00	0.00E+00	0.00E+00	Leading
	2	19810	89970	70160	4.05E-01	1.26E-03	1.48E-03	3.43E-04	2.58E-03	1.20E-03	6.45E-04	9.66E-06	1.14E-05	2.66E-03	0 00E+00	0 00E+00	0 00E+00	Leading
	3	89970	176300	86330	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	Midpoint
	4	176300	262700	86400	3 43E-02	0.00E+00	0 00E+00	0 00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0 00E+00	0 00E+00	Midpoint
DIRECT	1	4378	84810	80432	2.95E-03	3.61E-05	2 86E-05	3 22E-05	3.94E-05	3.44E-05	3 61E-05	4.04E-06	4 39E-06	3.99E-05	0.00E+00	0.00E+00	0.00E+00	Midpoint
	2	84810	134400	49590	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-08	2.40E-08	2.40E-07	0 00E+00	0.00E+00	0.00E+00	Leading
	3	134400	177600	43200	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-08	0.00E+00	0.00E+00	0 00E+00	Midpoint
	4	177600	264000	86400	2.32E-03	0 00E+00	0.00E+00	0 00E+00	0 00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-08	0.00E+00	0.00E+00	0.00E+00	Midpoint
IC	1	4378	84810	80432	9.83E-04	1.20E-05	9.53E-06	1.07E-05	1.31E-05	1.15E-05	1.20E-05	1.35E-06	1 46E-06	1.33E-05	0 00E+00	0.00E+00	0 00E+00	Midpoint
	2	84810	134400	49590	4.93E-04	0.00E+00	0 00E+00	0.00E+00	0 00E+00	0 00E+00	0.00E+00	6.00E-09	8 00E-09	8.00E-08	0.00E+00	0.00E+00	0.00E+00	Leading
	3	134400	177600	43200	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-08	0.00E+00	0 00E+00	0.00E+00	Midpoint
	4	177600	264000	86400	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	0 00E+00	0.00E+00	0.00E+00	1.00E-08	0.00E+00	0.00E+00	0.00E+00	Midpoint
BP	1	5984	22130	16146	6.32E-01	1.20E-02	1.85E-02	3.02E-04	4.97E-03	1.10E-02	7 91E-04	1.25E-05	3 52E-05	5 48E-02	0 00E+00	0.00E+00	0.00E+00	Midpoint
	2	22130	108500	86370	3.00E-04	5.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	3	108500	194900	86400	4.00E-04	0.00E+00	0.00E+00	0 00E+00	0 00E+00	0.00E+00	0.00E+00	0 00E+00	0 00E+00	0 00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	4	194900	267800	72900	3.00E-04	0.00E+00	0.00E+00	0 00E+00	0 00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
CI	1	101	50020	49919	5.73E-01	4.56E-02	2.12E-02	2.03E-02	4.04E-02	1.78E-02	3.16E-02	2.39E-04	7.42E-04	2.71E-02	0.00E+00	0.00E+00	0.00E+00	Midpoint
	2	50020	136400	86380	1.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	1.00E-07	0.00E+00	1.90E-04	0.00E+00	0 00E+00	0.00E+00	Midpoint
	3	136400	211700	75300	5.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	Midpoint
	4	211700	259600	47900	2.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	Midpoint
CFL	1	4353	23610	19257	7.51E-01	3.57E-02	4.36E-02	2.01E-03	9.90E-03	2.74E-02	3.02E-03	3.31E-05	1 60E-04	2.87E-02	1.14E-07	7.76E-10	0.00E+00	Midpoint
	2	23610	91280	67670	1 22E-01	9.30E-04	3.00E-05	0.00E+00	0 00E+00	2 70E-04	0.00E+00	0.00E+00	0.00E+00	2.90E-04	5.70E-09	2.00E-13	0.00E+00	Midpoint
	3	91280	177600	86320	6.93E-02	2.40E-04	3.00E-05	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0 00E+00	2.00E-04	1.00E-09	0.00E+00	0.00E+00	Midpoint
	4	177600	264000	86400	2.84E-02	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0 00E+00	1 20E-04	3 00E-10	0.00E+00	0.00E+00	Midpoint

Table 49-2

AP1000 SOURCE TERMS FOR DOSE EVALUATION (MACCS2)

Case No.	Plume No.	Start Time (Seconds)	End Time (Seconds)	Duration (Seconds)	Release Fraction (MACCS2 Group) 1 Inert	2 I	3 Cs	4 Te/Sb	5 Sr	6 Ru	7 La	8 Ce	9 Ba	Plume Energy Joules/sec (Watts)	Plume Position
CFI	1	2930	10100	7170	2 88E-01	5.09E-03	5.08E-03	5.14E-04	4.77E-03	1.03E-02	1.56E-04	6.04E-07	8.12E-03	0.00E+00	Leading
	2	10100	89850	79750	4.69E-01	3.50E-03	3.49E-03	3.45E-04	9.23E-03	6.62E-03	1 08E-03	3 61E-06	9.15E-03	0.00E+00	Midpoint
	3	89850	176200	86350	6 98E-02	6 00E-06	6.00E-06	2.31E-06	4.20E-04	1.00E-05	5.84E-04	1.94E-06	1 70E-04	0.00E+00	Midpoint
	4	176200	262600	86400	2.35E-02	0 00E+00	0.00E+00	2 31E-06	1.50E-04	4.00E-05	3.23E-04	1.06E-06	8.00E-05	0.00E+00	Midpoint
CFE	1	3004	19810	16806	4.16E-01	5.53E-02	5.37E-02	1.17E-03	3.14E-03	1.16E-02	5.57E-05	7.91E-07	4.63E-03	0.00E+00	Leading
	2	19810	89970	70160	4.05E-01	1.26E-03	1.21E-03	1.54E-04	3.43E-04	2.58E-03	9.66E-06	3.78E-08	6.45E-04	0.00E+00	Leading
	3	89970	176300	86330	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	4	176300	262700	86400	3 43E-02	0 00E+00	0.00E+00	5 78E-07	0.00E+00	0 00E+00	0 00E+00	0 00E+00	0.00E+00	0.00E+00	Midpoint
DIRECT	1	4378	84810	80432	2.95E-03	3.61E-05	3.46E-05	2.31E-06	3.22E-05	3.94E-05	4.04E-06	1.45E-08	3.61E-05	0.00E+00	Midpoint
	2	84810	134400	49590	1.48E-03	0 00E+00	0.00E+00	1.39E-08	0.00E+00	0.00E+00	1.80E-08	7.95E-11	0.00E+00	0 00E+00	Leading
	3	134400	177600	43200	1.18E-03	0.00E+00	0.00E+00	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	4	177600	264000	86400	2 32E-03	0 00E+00	0.00E+00	1 73E-09	0 00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	0.00E+00	Midpoint
IC	1	4378	84810	80432	9 83E-04	1.20E-05	1.15E-05	7.69E-07	1.07E-05	1.31E-05	1.35E-06	4.85E-09	1.20E-05	0.00E+00	Midpoint
	2	84810	134400	49590	4.93E-04	0.00E+00	0.00E+00	4.62E-09	0.00E+00	0.00E+00	6.00E-09	2.65E-11	0.00E+00	0.00E+00	Leading
	3	134400	177600	43200	3.94E-04	0.00E+00	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	0.00E+00	Midpoint
	4	177600	264000	86400	7.72E-04	0.00E+00	0.00E+00	5.78E-10	0.00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	0.00E+00	Midpoint
BP	1	5984	22130	16146	6.32E-01	1.20E-02	1.11E-02	3.17E-03	3.02E-04	4.97E-03	1.25E-05	1.17E-07	7.91E-04	0.00E+00	Midpoint
	2	22130	108500	86370	3 00E-04	5.00E-05	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	3	108500	194900	86400	4 00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	4	194900	267800	72900	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0 00E+00	0.00E+00	0 00E+00	0.00E+00	0.00E+00	Midpoint
CI	1	101	50020	49919	5.73E-01	4.56E-02	2.10E-02	1.57E-03	2.03E-02	4.04E-02	2.39E-04	2.46E-06	3.16E-02	0.00E+00	Midpoint
	2	50020	136400	86380	1 13E-01	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	1.00E-07	0.00E+00	0.00E+00	0.00E+00	Midpoint
	3	136400	211700	75300	5.66E-02	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	4	211700	259600	47900	2 74E-02	0 00E+00	0.00E+00	1 21E-05	0 00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
CFL	1	4353	23610	19257	7 51E-01	3.57E-02	2.84E-02	1.66E-03	2 01E-03	9.90E-03	3.31E-05	5.30E-07	3.02E-03	0.00E+00	Midpoint
	2	23610	91280	67670	1 22E-01	9.30E-04	3.46E-04	1.68E-05	0.00E+00	0.00E+00	0.00E+00	1.99E-13	0.00E+00	0.00E+00	Midpoint
	3	91280	177600	86320	6.93E-02	2.40E-04	1.16E-04	1.16E-05	0 00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint
	4	177600	264000	86400	2.84E-02	1.00E-05	1.00E-05	6.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	Midpoint

Table 49-3

SITE BOUNDARY WHOLE BODY DOSE [EFFECTIVE DOSE EQUIVALENT (EDE)], SIEVERTS

24-hour Case Source Term	Quantiles						Peak Consequence
	Mean	50th	90th	95th	99th	99.5th	
CFI	3.25E+01	2.61E+01	7.11E+01	8.48E+01	NOT-FOUND	NOT-FOUND	9.29E+01
CFE	4.23E+01	2.22E+01	1.03E+02	1.35E+02	NOT-FOUND	NOT-FOUND	1.55E+02
DIRECT	5.48E-02	3.37E-02	1.36E-01	1.77E-01	NOT-FOUND	NOT-FOUND	2.37E-01
IC	1.82E-02	1.08E-02	4.84E-02	6.24E-02	NOT-FOUND	NOT-FOUND	7.88E-02
BP	1.15E+01	7.72E+00	3.15E+01	3.92E+01	NOT-FOUND	NOT-FOUND	4.39E+01
CI	5.10E+01	3.53E+01	1.24E+02	1.55E+02	NOT-FOUND	NOT-FOUND	2.27E+02
CFL	2.58E+01	2.10E+01	5.39E+01	6.47E+01	7.52E+01	7.81E+01	9.23E+01
72-hour Case Source Term	**Quantiles**						**Peak Consequence**
	Mean	**50th**	**90th**	**95th**	**99th**	**99.5th**	
CFI	3.49E+01	3.01E+01	7.12E+01	8.74E+01	NOT-FOUND	NOT-FOUND	9.71E+01
CFE	4.60E+01	2.31E+01	1.16E+02	1.47E+02	NOT-FOUND	NOT-FOUND	1.67E+02
DIRECT	6.09E-02	3.67E-02	1.66E-01	2.27E-01	NOT-FOUND	NOT-FOUND	2.56E-01
IC	2.21E-02	1.31E-02	5.73E-02	7.96E-02	NOT-FOUND	NOT-FOUND	8.97E-02
BP	1.23E+01	8.02E+00	3.18E+01	4.09E+01	NOT-FOUND	NOT-FOUND	4.66E+01
CI	5.40E+01	3.75E+01	1.39E+02	1.89E+02	NOT-FOUND	NOT-FOUND	2.38E+02
CFL	2.80E+01	2.13E+01	6.32E+01	7.12E+01	7.86E+01	8.20E+01	9.92E+01

Table 49-4

SITE BOUNDARY THYROID DOSE, SIEVERTS

24-hour Case Source Term	Quantiles						Peak Consequence
	Mean	50th	90th	95th	99th	99.5th	
CFI	5.67E+01	5.09E+01	1.14E+02	1.44E+02	NOT-FOUND	NOT-FOUND	1.62E+02
CFE	3.59E+02	2.02E+02	1.01E+03	1.18E+03	NOT-FOUND	NOT-FOUND	1.28E+03
DIRECT	1.34E-01	8.58E-02	3.55E-01	4.48E-01	NOT-FOUND	NOT-FOUND	5.23E-01
IC	4.47E-02	3.08E-02	1 20E-01	1.54E-01	NOT-FOUND	NOT-FOUND	1.74E-01
BP	7.71E+01	5.40E+01	2.04E+02	2.23E+02	2.73E+02	NOT-FOUND	2.73E+02
CI	1.82E+02	1.23E+02	4 58E+02	5.74E+02	NOT-FOUND	NOT-FOUND	7.30E+02
CFL	2.20E+02	1.68E+02	5.34E+02	6.39E+02	7.07E+02	7 11E+02	7.30E+02
72-hour Case Source Term	**Quantiles**						**Peak Consequence**
	Mean	**50th**	**90th**	**95th**	**99th**	**99.5th**	
CFI	6.14E+01	5.26E+01	1.23E+02	1.54E+02	NOT-FOUND	NOT-FOUND	1.73E+02
CFE	3 81E+02	2.11E+02	1.02E+03	1.23E+03	NOT-FOUND	NOT-FOUND	1 36E+03
DIRECT	1.56E-01	1 05E-01	4.20E-01	5.47E-01	NOT-FOUND	NOT-FOUND	5.94E-01
IC	5.65E-02	3 86E-02	1 33E-01	1.76E-01	NOT-FOUND	NOT-FOUND	2 09E-01
BP	8.19E+01	5.64E+01	2 10E+02	2.60E+02	NOT-FOUND	NOT-FOUND	2.89E+02
CI	1.98E+02	1.40E+02	4 70E+02	5.79E+02	NOT-FOUND	NOT-FOUND	7.90E+02
CFL	2 35E+02	2.08E+02	5.34E+02	6.39E+02	7.18E+02	7.29E+02	7.76E+02

Table 49-5

POPULATION WHOLE BODY DOSE [EFFECTIVE DOSE EQUIVALENT (EDE)], 0-80.5 KM PERSON-SIEVERTS

24-hour Case Source Term	Quantiles						Peak Consequence
	Mean	50th	90th	95th	99th	99.5th	
CFI	7.88E+03	6.11E+03	1.47E+04	2.01E+04	3.21E+04	3.51E+04	5.34E+04
CFE	8.51E+03	6.25E+03	1.62E+04	2.31E+04	4.13E+04	5.06E+04	6.40E+04
DIRECT	2.16E+01	1.20E+01	4.78E+01	8.13E+01	1.14E+02	1.23E+02	1.68E+02
IC	7.19E+00	4.21E+00	1.71E+01	2.95E+01	3.56E+01	3.84E+01	5.60E+01
BP	2.91E+03	1.74E+03	5.90E+03	1.00E+04	1.52E+04	1.81E+04	2.58E+04
CI	2.01E+04	1.13E+04	4.71E+04	6.60E+04	1.23E+05	1.48E+05	1.61E+05
CFL	5.32E+03	3.87E+03	1.04E+04	1.35E+04	2.32E+04	2.77E+04	4.35E+04
72-hour Case Source Term	**Quantiles**						**Peak Consequence**
	Mean	**50th**	**90th**	**95th**	**99th**	**99.5th**	
CFI	8.89E+03	6.89E+03	1.63E+04	2.21E+04	3.42E+04	3.84E+04	5.73E+04
CFE	9.36E+03	6.89E+03	1.88E+04	2.54E+04	4.25E+04	5.12E+04	6.77E+04
DIRECT	2.45E+01	1.43E+01	5.50E+01	8.33E+01	1.16E+02	1.26E+02	1.78E+02
IC	8.80E+00	5.57E+00	1.98E+01	3.14E+01	4.41E+01	5.03E+01	6.33E+01
BP	3.11E+03	1.85E+03	6.31E+03	1.03E+04	1.54E+04	1.82E+04	2.69E+04
CI	2.14E+04	1.25E+04	4.90E+04	7.40E+04	1.27E+05	1.53E+05	1.67E+05
CFL	5.84E+03	4.32E+03	1.12E+04	1.48E+04	2.53E+04	3.04E+04	4.62E+04

Table 49-6

SITE BOUNDARY RED MARROW DOSE (TOTAL ACUTE), SIEVERTS

24-hour Case Source Term	Quantiles						Peak Consequence
	Mean	50th	90th	95th	99th	99.5th	
CFI	2.80E+00	1.89E+00	7.07E+00	7.93E+00	NOT-FOUND	NOT-FOUND	8.41E+00
CFE	7.81E+00	4.83E+00	2.01E+01	2.07E+01	2.22E+01	2.29E+01	2.70E+01
DIRECT	2.47E-03	1.49E-03	6.40E-03	8.69E-03	1.01E-02	1.01E-02	1.03E-02
IC	8.22E-04	5.34E-04	2.09E-03	2.67E-03	3.10E-03	3.15E-03	3.42E-03
BP	1.53E+00	1.09E+00	3.48E+00	4.77E+00	NOT-FOUND	NOT-FOUND	5.32E+00
CI	2.46E+00	1.67E+00	6.13E+00	7.72E+00	1.00E+01	NOT-FOUND	1.00E+01
CFL	3.01E+00	2.28E+00	6.38E+00	7.12E+00	7.86E+00	8.20E+00	9.90E+00
72-hour Case Source Term	**Quantiles**						**Peak Consequence**
	Mean	**50th**	**90th**	**95th**	**99th**	**99.5th**	
CFI	3.70E+00	3.14E+00	7.52E+00	9.09E+00	1.04E+01	1.07E+01	1.19E+01
CFE	1.02E+01	5.68E+00	3.01E+01	3.11E+01	3.36E+01	3.48E+01	4.17E+01
DIRECT	5.70E-03	4.48E-03	1.06E-02	1.13E-02	1.33E-02	1.43E-02	2.09E-02
IC	2.78E-03	2.44E-03	5.59E-03	7.00E-03	7.52E-03	7.76E-03	9.02E-03
BP	2.04E+00	1.28E+00	5.30E+00	6.75E+00	NOT-FOUND	NOT-FOUND	7.00E+00
CI	4.23E+00	3.13E+00	1.01E+01	1.08E+01	1.26E+01	1.34E+01	1.70E+01
CFL	4.34E+00	3.31E+00	9.35E+00	1.03E+01	1.13E+01	1.18E+01	1.42E+01

Table 49-7

DOSE SUMMARY

	Population Dose (Sieverts)				Site Boundary Whole Body Dose (Sieverts)				Site Boundary Thyroid Dose (Sieverts)				Site Boundary Red Marrow Dose (Sieverts)			
	24-Hour		72-Hour		24-Hour		72-Hour		24-Hour		72-Hour		24-Hour		72-Hour	
	Mean	Peak	Mean	Peak	Mean	Peak	Mean	Peak	Mean	Peak	Mean	Peak	Mean	Peak	Mean	Peak
CFI	7 88E+03	5 34E+04	8 89E+03	5 73E+04	3 25E+01	9 29E+01	3 49E+01	9.71E+01	5 67E+01	1 62E+02	6.14E+01	1.73E+02	2.80E+00	8 41E+00	3 70E+00	1 19E+01
CFE	8 51E+03	6 40E+04	9.36E+03	6 77E+04	4 23E+01	1.55E+02	4 60E+01	1.67E+02	3.59E+02	1.28E+03	3.81E+02	1.36E+03	7 81E+00	2 70E+01	1 02E+01	4.17E+01
DIRECT	2.16E+01	1 68E+02	2 45E+01	1.78E+02	5 48E-02	2.37E-01	6 09E-02	2 56E-01	1 34E-01	5 23E-01	1 56E-01	5 94E-01	2 47E-03	1.03E-02	5.70E-03	2 09E-02
IC	7.19E+00	5 60E+01	8 80E+00	6.33E+01	1 82E-02	7.88E-02	2.21E-02	8.97E-02	4.47E-02	1.74E-01	5 65E-02	2 09E-01	8 22E-04	3 42E-03	2.78E-03	9.02E-03
BP	2 91E+03	2.58E+04	3 11E+03	2 69E+04	1.15E+01	4.39E+01	1.23E+01	4 66E+01	7.71E+01	2.73E+02	8.19E+01	2.89E+02	1.53E+00	5.32E+00	2.04E+00	7 00E+00
CI	2 01E+04	1 61E+05	2.14E+04	1 67E+05	5.10E+01	2 27E+02	5.40E+01	2 38E+02	1 82E+02	7 30E+02	1 98E+02	7.90E+02	2.46E+00	1.00E+01	4.23E+00	1.70E+01
CFL	5 32E+03	4 35E+04	5 84E+03	4 62E+04	2 58E+01	9 23E+01	2 80E+01	9 92E+01	2 20E+02	7.30E+02	2 35E+02	7.76E+02	3.01E+00	9.90E+00	4 34E+00	1 42E+01

Table 49-8

SITE BOUNDARY WHOLE BODY EDE DOSE RISK – 24 HOURS

Release Category	Release Frequency (/Reactor Year)	Mean Dose (Sieverts)	Dose (REM)	Risk (REM/Reactor Year)	Percentage Contribution to Total Risk
CFI	1.89E-10	3.25E+01	3.25E+03	6.14E-07	1.2
CFE	7.47E-09	4.23E+01	4.23E+03	3.16E-05	61.4
IC	2.21E-07	1.82E-02	1.82E+00	4.02E-07	0.8
BP	1.05E-08	1.15E+01	1.15E+03	1.21E-05	23.5
CI	1.33E-09	5.10E+01	5.10E+03	6.78E-06	13.2
CFL	3.45E-13	2.58E+01	2.58E+03	8.90E-10	0.0
			Total Risk =	5.150E-05	100.0

Table 49-9

SITE BOUNDARY WHOLE BODY EDE DOSE RISK – 72 HOURS

Release Category	Release Frequency (/Reactor Year)	Mean Dose (Sieverts)	Dose (REM)	Risk (REM/Reactor Year)	Percentage Contribution to Total Risk
CFI	1.89E-10	3.49E+01	3.49E+03	6.60E-07	1.2
CFE	7.47E-09	4.60E+01	4.60E+03	3.44E-05	61.8
IC	2.21E-07	2.21E-02	2.21E+00	4.88E-07	0.9
BP	1.05E-08	1.23E+01	1.23E+03	1.29E-05	23.2
CI	1.33E-09	5.40E+01	5.40E+03	7.18E-06	12.9
CFL	3.45E-13	2.80E+01	2.80E+03	9.66E-10	0.0
			Total Risk =	5.56E-05	100.0

Table 49-10

POPULATION WHOLE BODY EDE DOSE RISK – 24 HOURS

Release Category	Release Frequency (/Reactor Year)	Mean Dose (Person-Sieverts)	Dose (Person-REM)	Risk (Person-REM/ Reactor Year)	Percentage Contribution to Total Risk
CFI	1.89E-10	7.88E+03	7.88E+05	1.49E-04	1.2
CFE	7.47E-09	8.51E+03	8.51E+05	6.36E-03	51.3
IC	2.21E-07	7.19E+00	7.19E+02	1.59E-04	1.3
BP	1.05E-08	2.91E+03	2.91E+05	3.06E-03	24.7
CI	1.33E-09	2.01E+04	2.01E+06	2.67E-03	21.6
CFL	3.45E-13	5.32E+03	5.32E+05	1.84E-07	0.0
			Total Risk =	1.24E-02	100.0

Table 49-11

POPULATION WHOLE BODY EDE DOSE RISK – 72 HOURS

Release Category	Release Frequency (/Reactor Year)	Mean Dose (Person-Sieverts)	Dose (Person-REM)	Risk (Person-REM/ Reactor Year)	Percentage Contribution to Total Risk
CFI	1.89E-10	8.89E+03	8.89E+05	1.68E-04	1.2
CFE	7.47E-09	9.36E+03	9.36E+05	6.99E-03	51.9
IC	2.21E-07	8.80E+00	8.80E+02	1.94E-04	1.4
BP	1.05E-08	3.11E+03	3.11E+05	3.27E-03	24.2
CI	1.33E-09	2.14E+04	2.14E+06	2.85E-03	21.1
CFL	3.45E-13	5.84E+03	5.84E+05	2.01E-07	0.0
			Total Risk =	1.35E-02	100.0

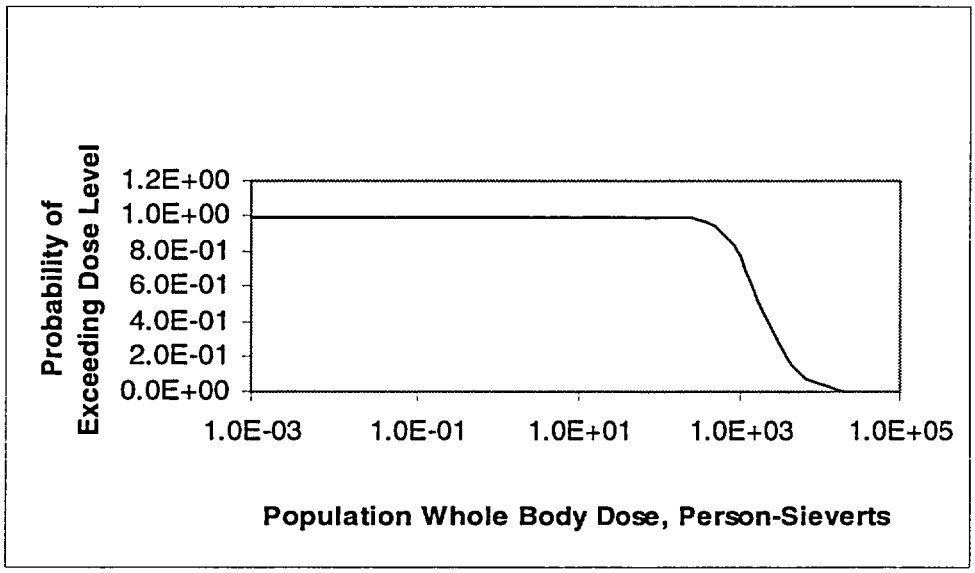

Figure 49-1

Population Whole Body Dose – BP Source Term, 24 Hours

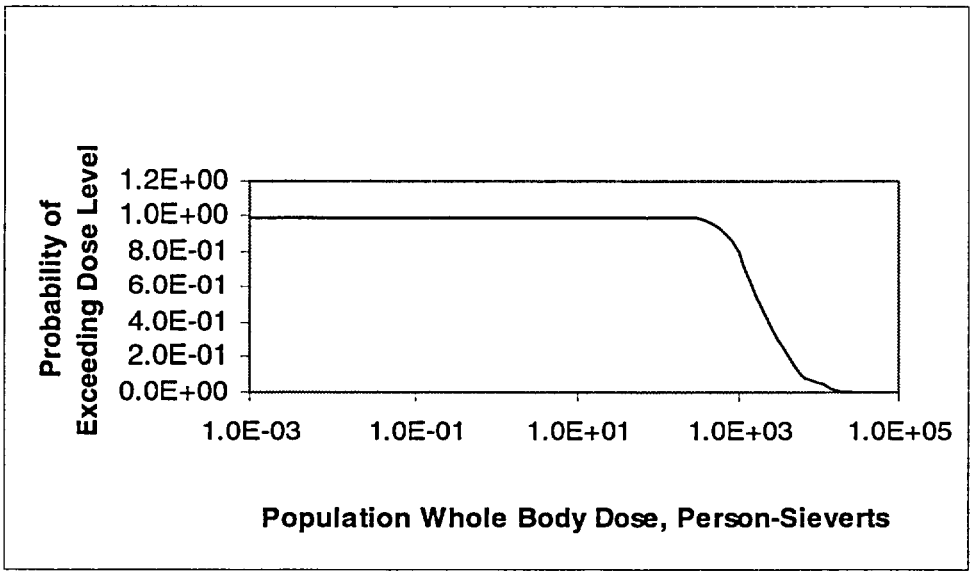

Figure 49-2

Population Whole Body Dose – BP Source Term 72 Hours

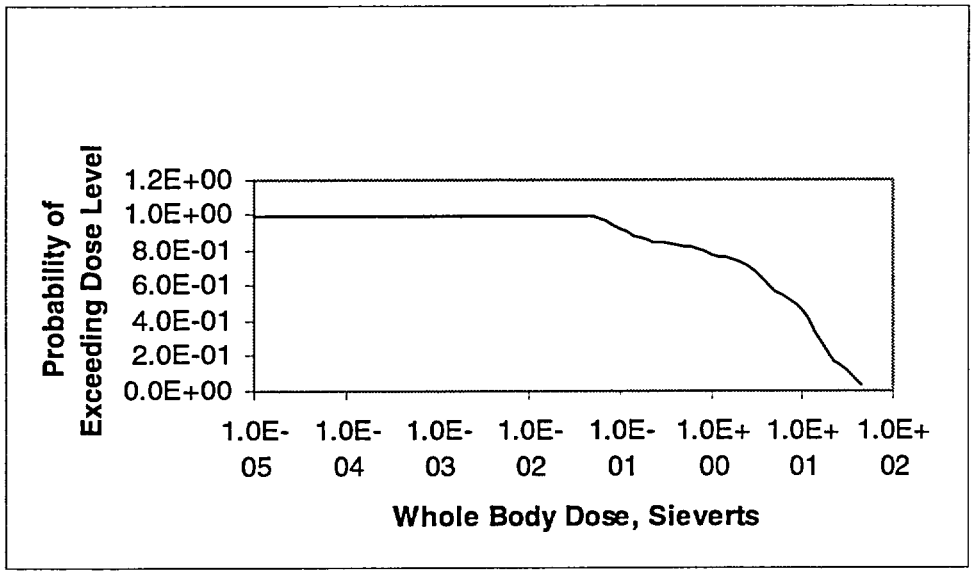

Figure 49-3

Site Boundary Whole Body Dose – BP Source Term, 24 Hours

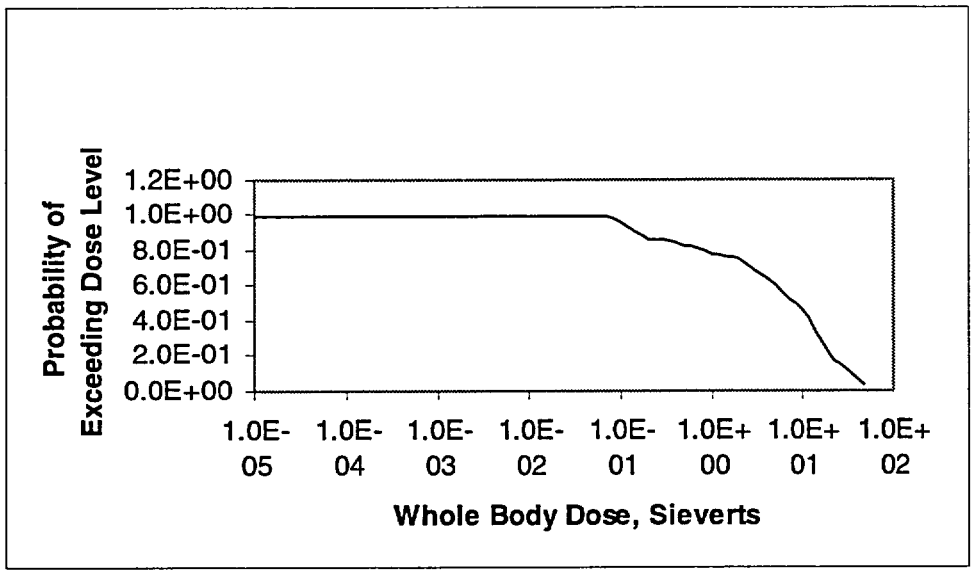

Figure 49-4

Site Boundary Whole Body Dose – BP Source Term, 72 Hours

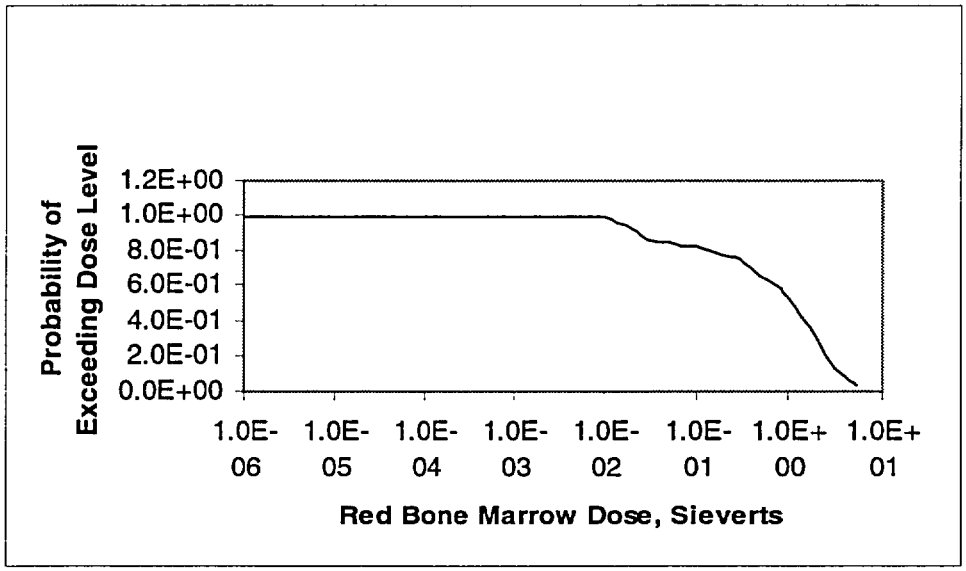

Figure 49-5

Site Boundary Red Bone Marrow Dose – BP Source Term, 24 Hours

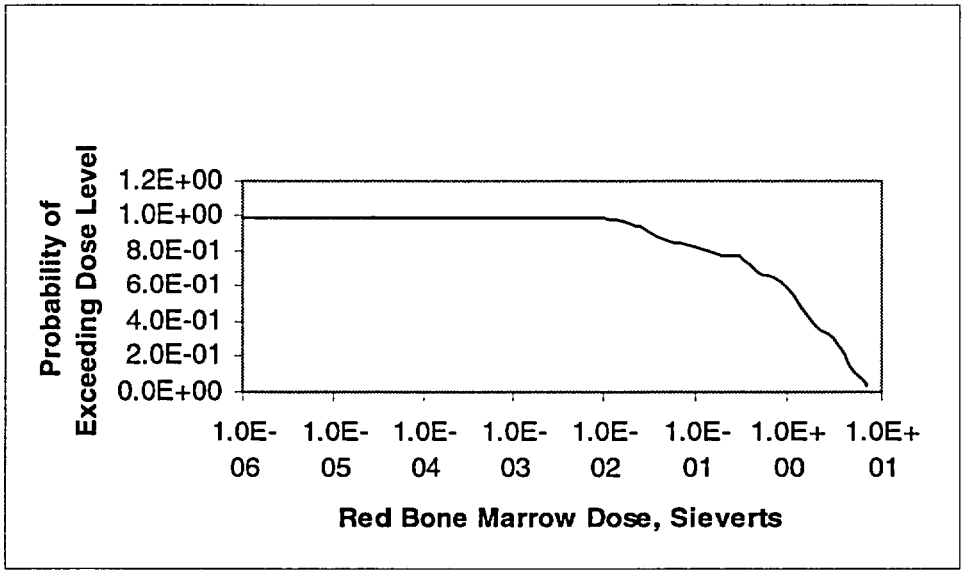

Figure 49-6

Site Boundary Red Bone Marrow Dose – BP Source Term, 72 Hours

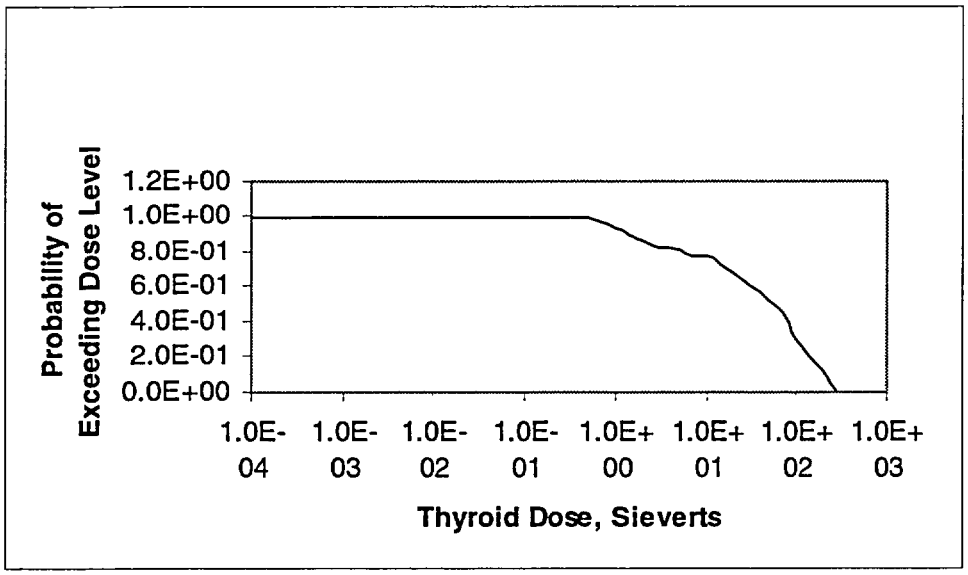

Figure 49-7

Site Boundary Thyroid Dose – BP Source Term, 24 Hours

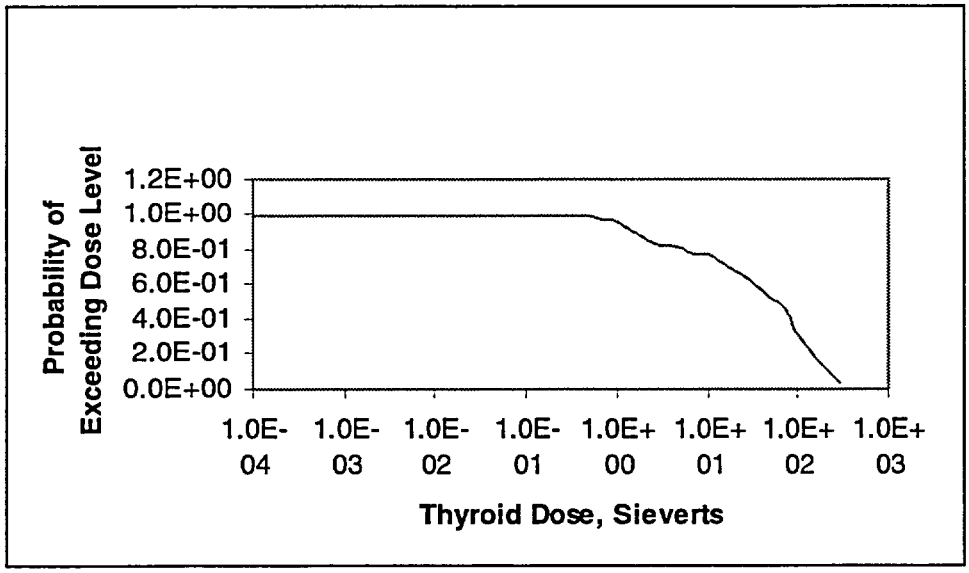

Figure 49-8

Site Boundary Thyroid Dose – BP Source Term, 72 Hours

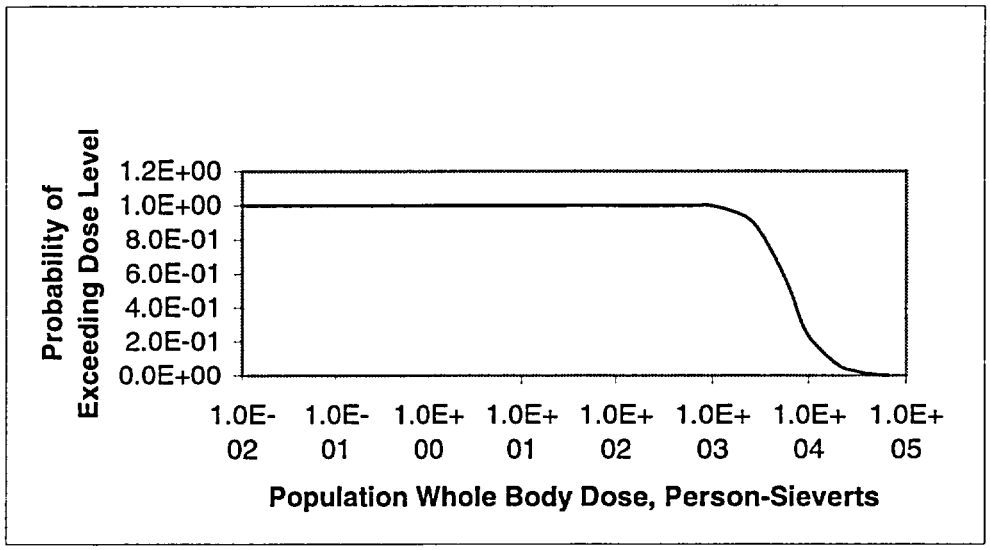

Figure 49-9

Population Whole Body Dose – CFE Source Term, 24 Hours

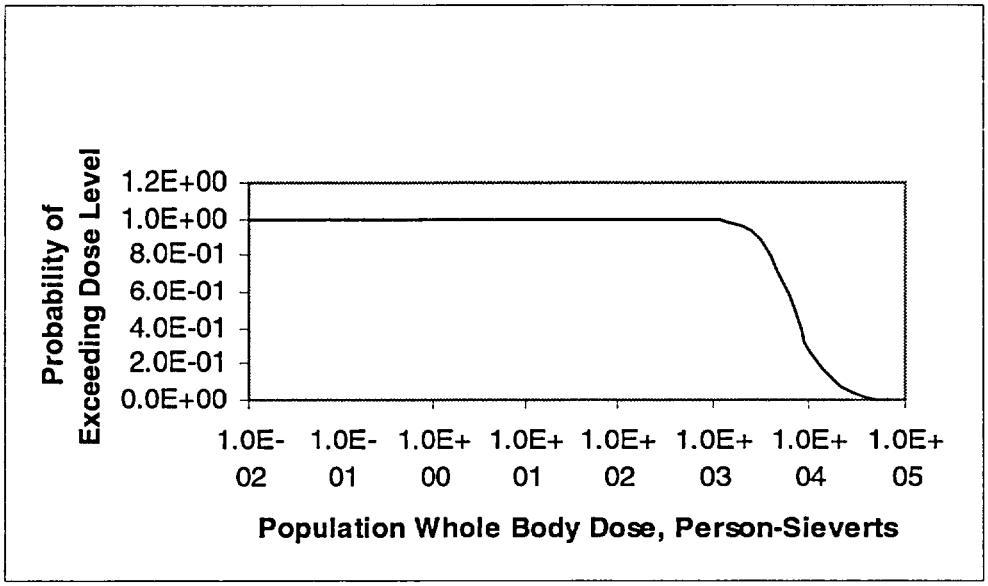

Figure 49-10

Population Whole Body Dose – CFE Source Term, 72 Hours

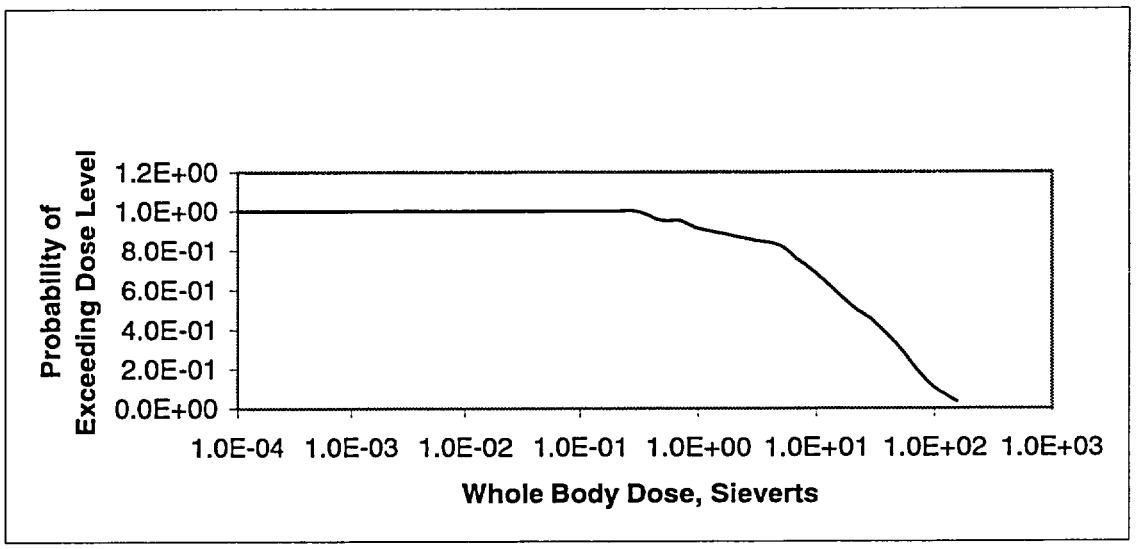

Figure 49-11

Site Boundary Whole Body Dose – CFE Source Term, 24 Hours

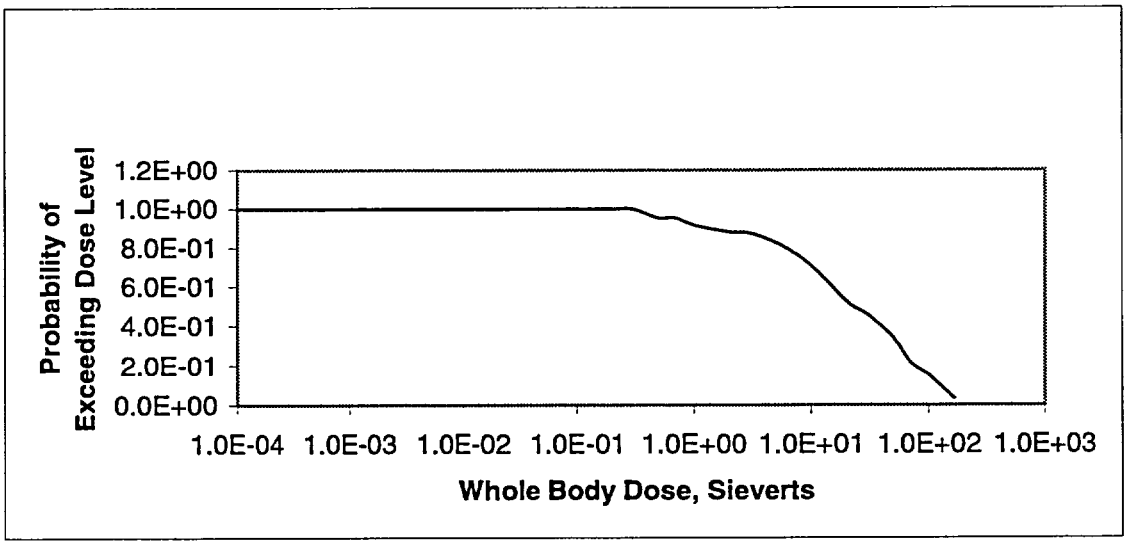

Figure 49-12

Site Boundary Whole Body Dose – CFE Source Term, 72 Hours

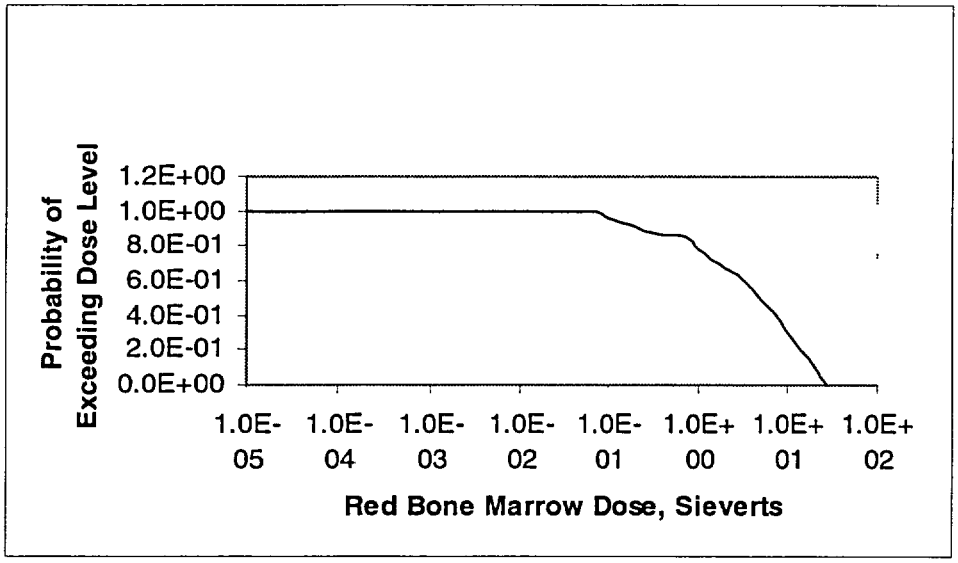

Figure 49-13

Site Boundary Red Bone Marrow Dose – CFE Source Term, 24 Hours

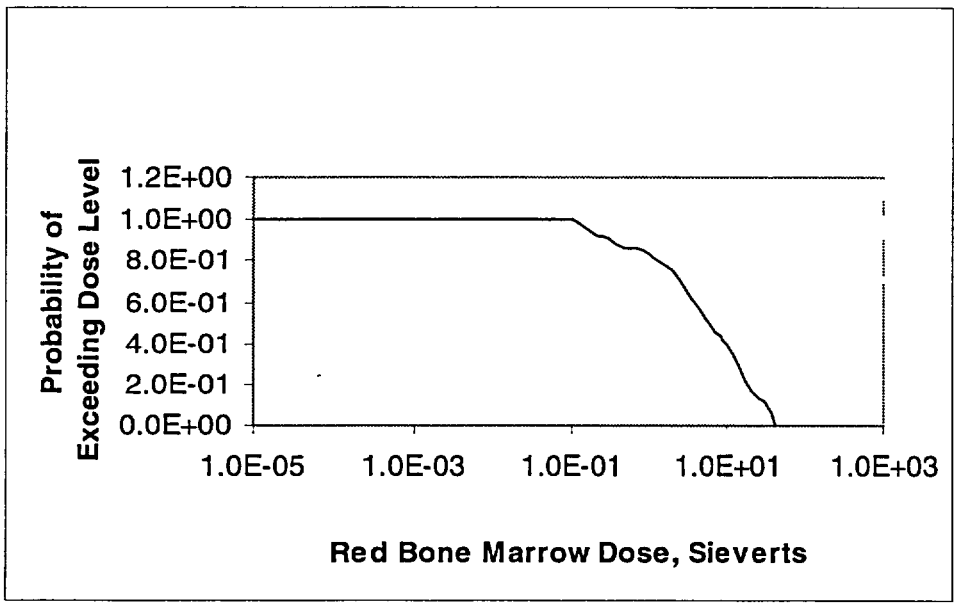

Figure 49-14

Site Boundary Red Bone Marrow Dose – CFE Source Term, 72 Hours

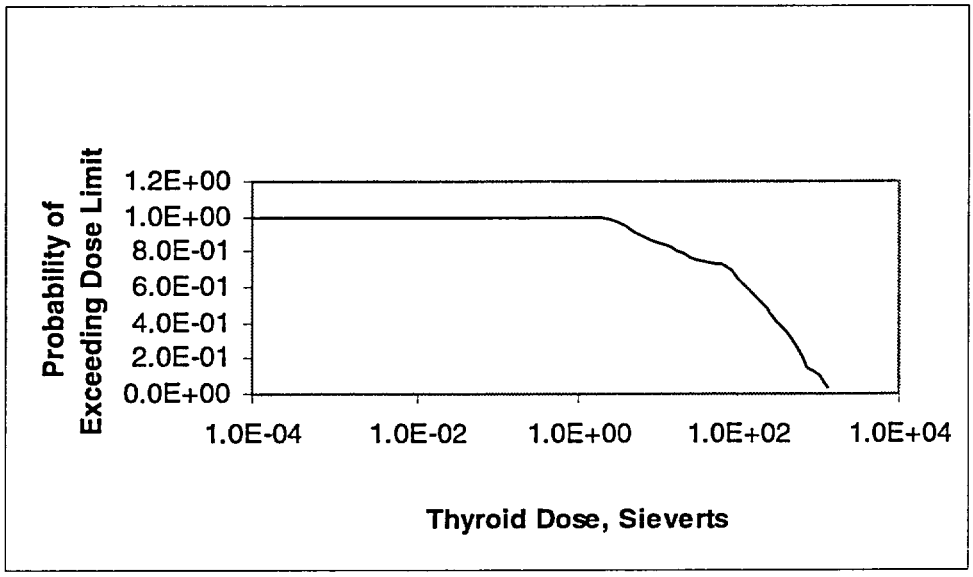

Figure 49-15

Site Boundary Thyroid Dose – CFE Source Term, 24 Hours

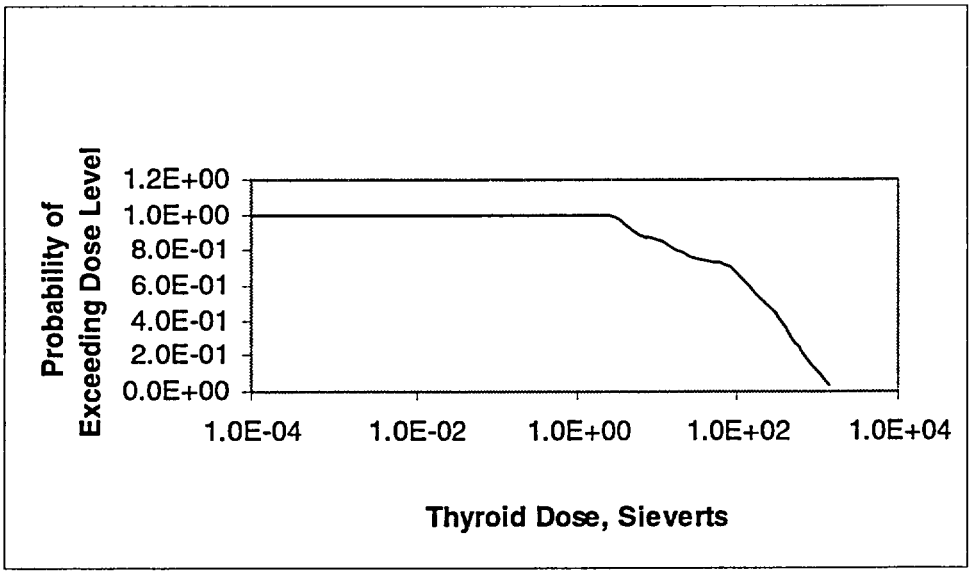

Figure 49-16

Site Boundary Thyroid Dose – CFE Source Term, 72 Hours

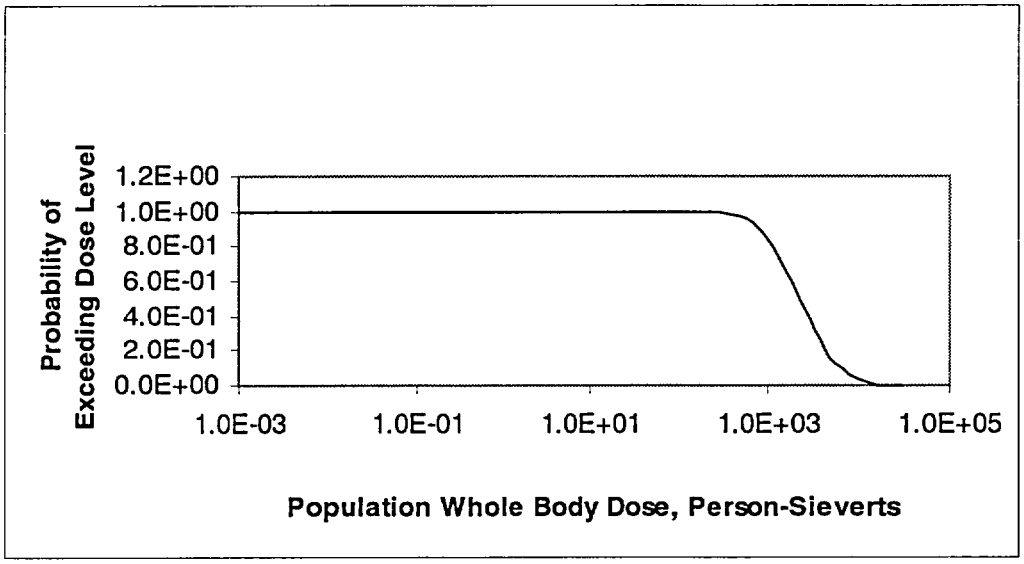

Figure 49-17

Population Whole Body Dose – CFI Source Term, 24 Hours

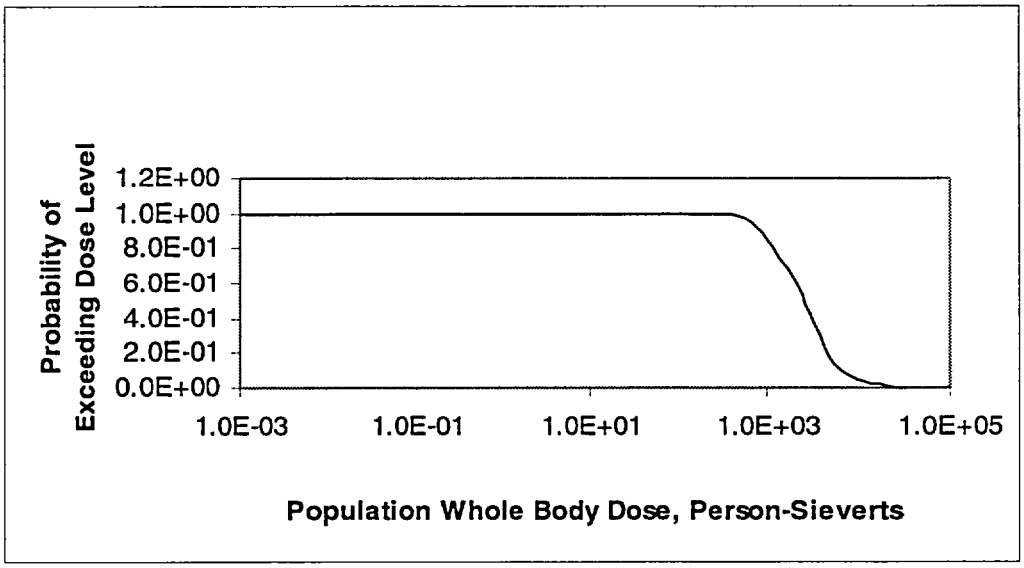

Figure 49-18

Population Whole Body Dose – CFI Source Term, 72 Hours

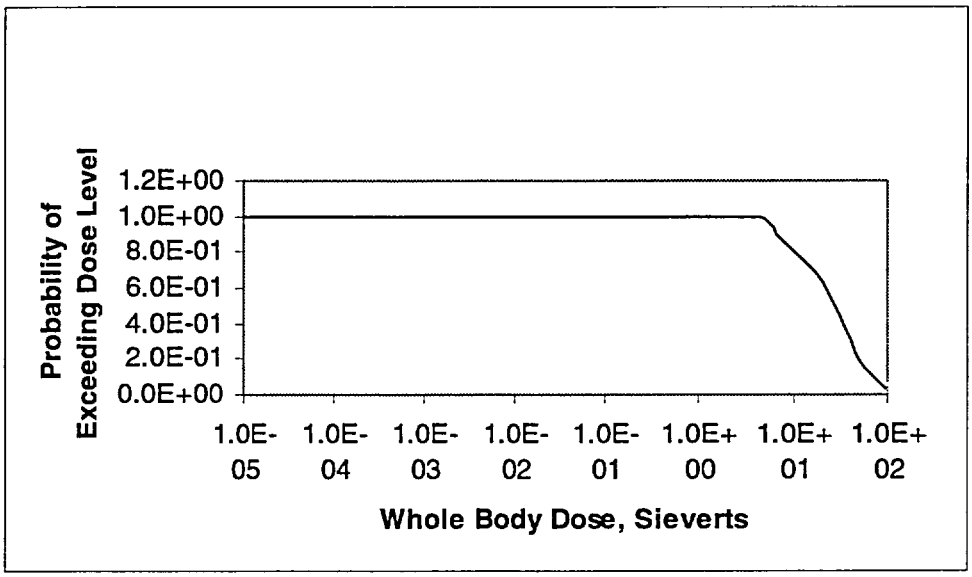

Figure 49-19

Site Boundary Whole Body Dose – CFI Source Term, 24 Hours

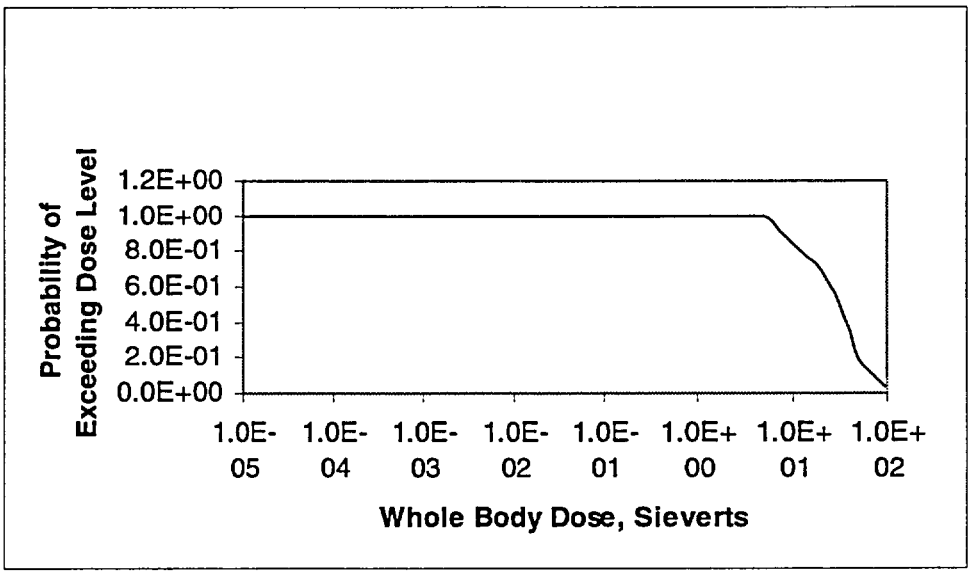

Figure 49-20

Site Boundary Whole Body Dose – CFI Source Term, 72 Hours

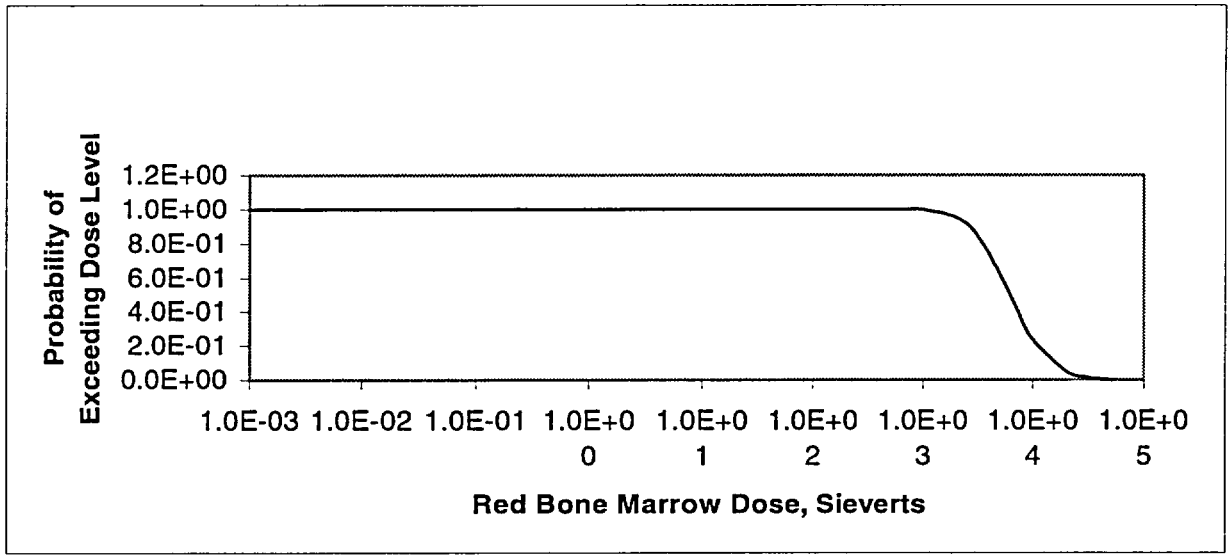

Figure 49-21

Site Boundary Red Bone Marrow Dose – CFI Source Term, 24 Hours

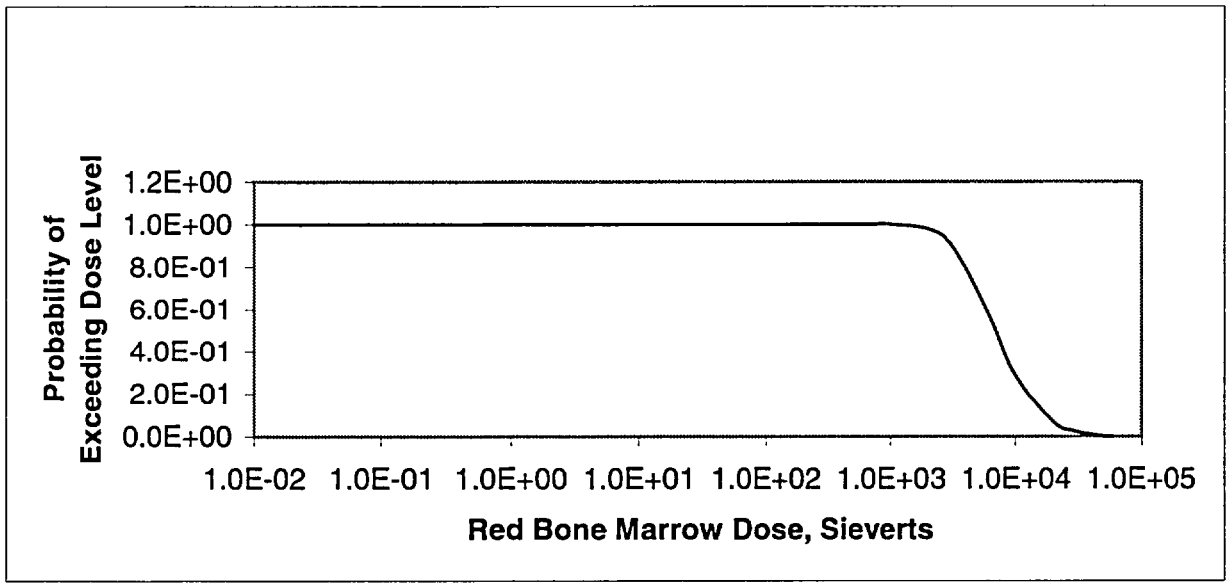

Figure 49-22

Site Boundary Red Bone Marrow Dose – CFI Source Term, 72 Hours

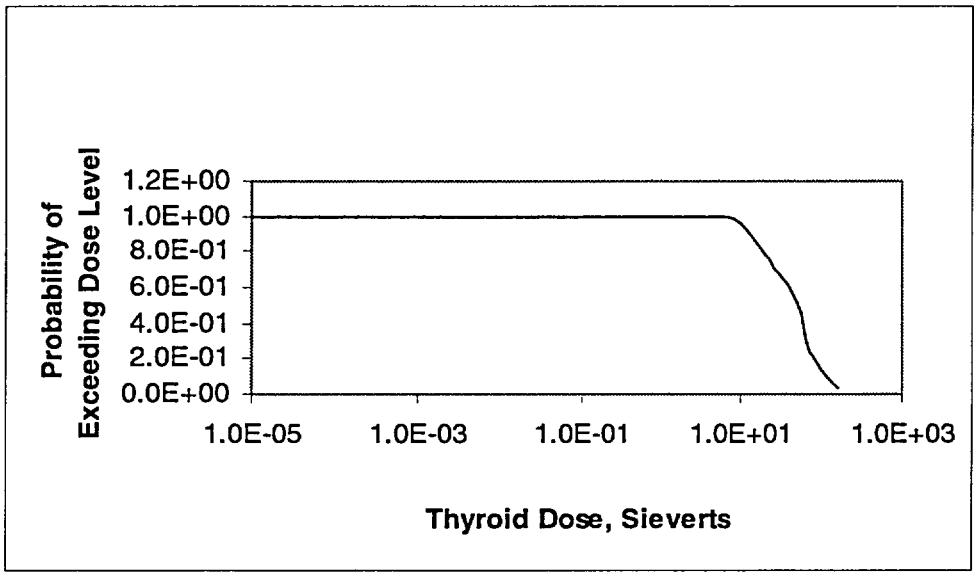

Figure 49-23

Site Boundary Thyroid Dose – CFI Source Term, 24 Hours

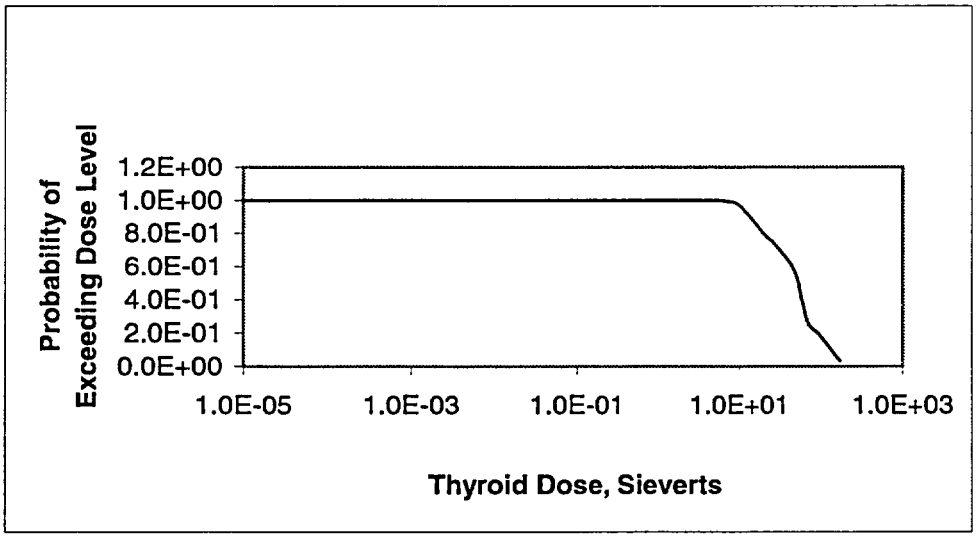

Figure 49-24

Site Boundary Thyroid Dose – CFI Source Term, 72 Hours

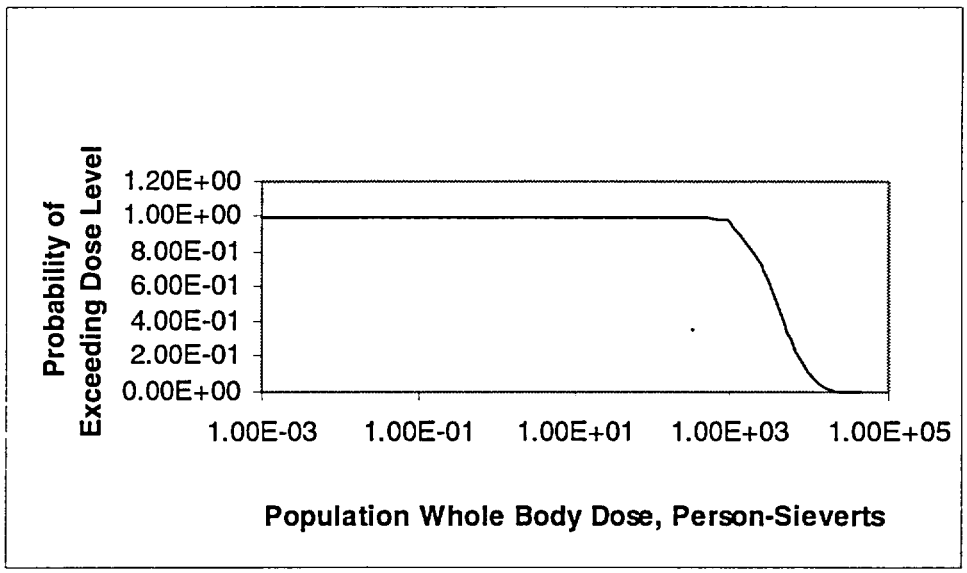

Figure 49-25

Population Whole Body Dose – CFL Source Term, 24 Hours

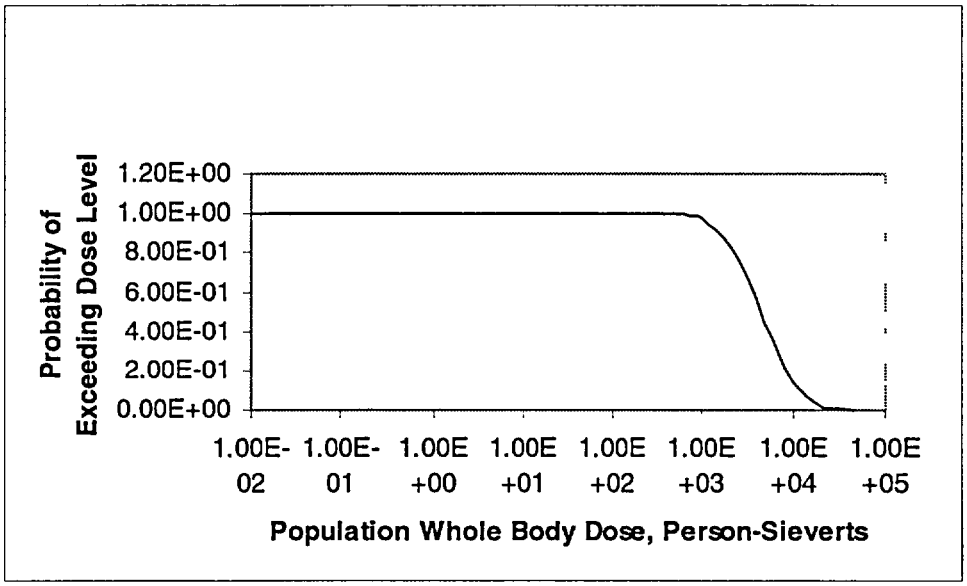

Figure 49-26

Population Whole Body Dose – CFL Source Term, 72 Hours

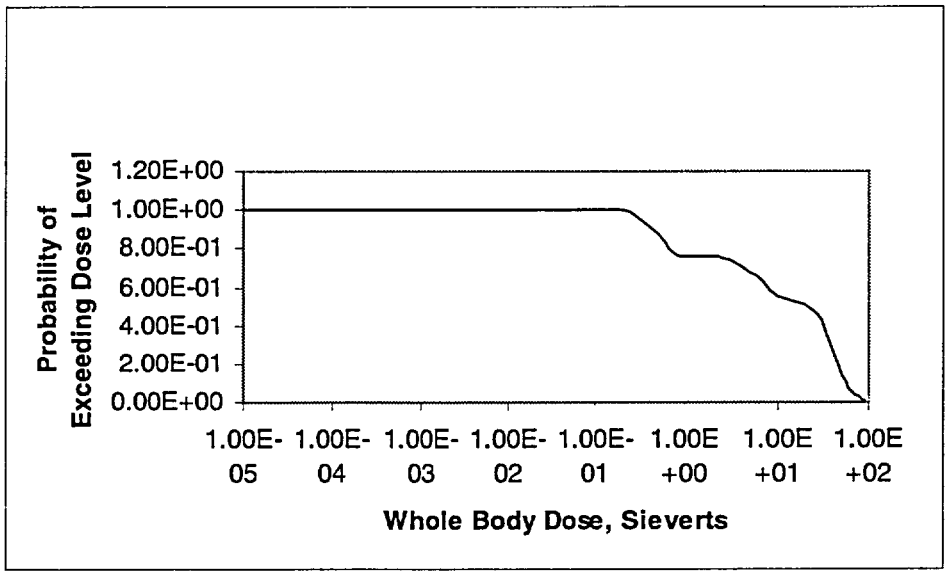

Figure 49-27

Site Boundary Whole Body Dose – CFL Source Term, 24 Hours

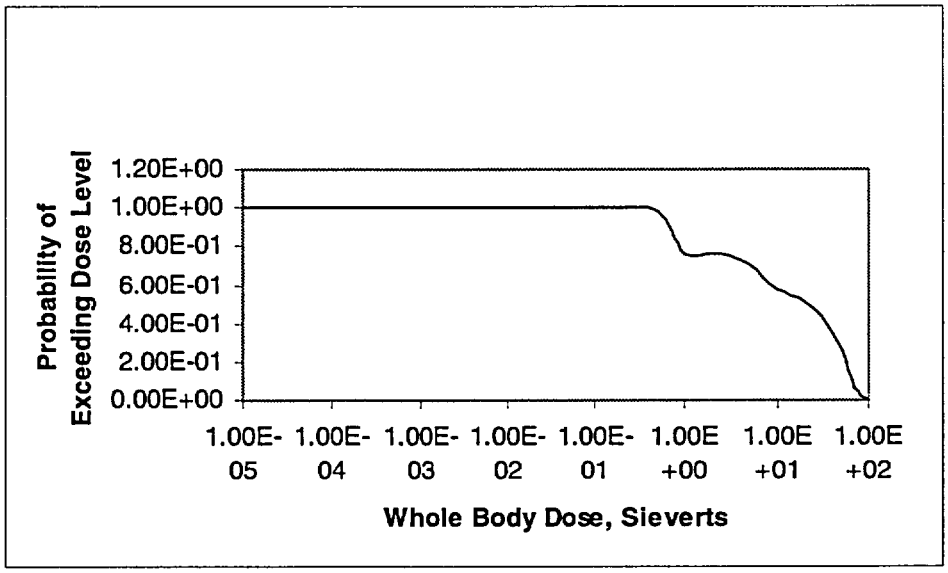

Figure 49-28

Site Boundary Whole Body Dose – CFL Source Term, 72 Hours

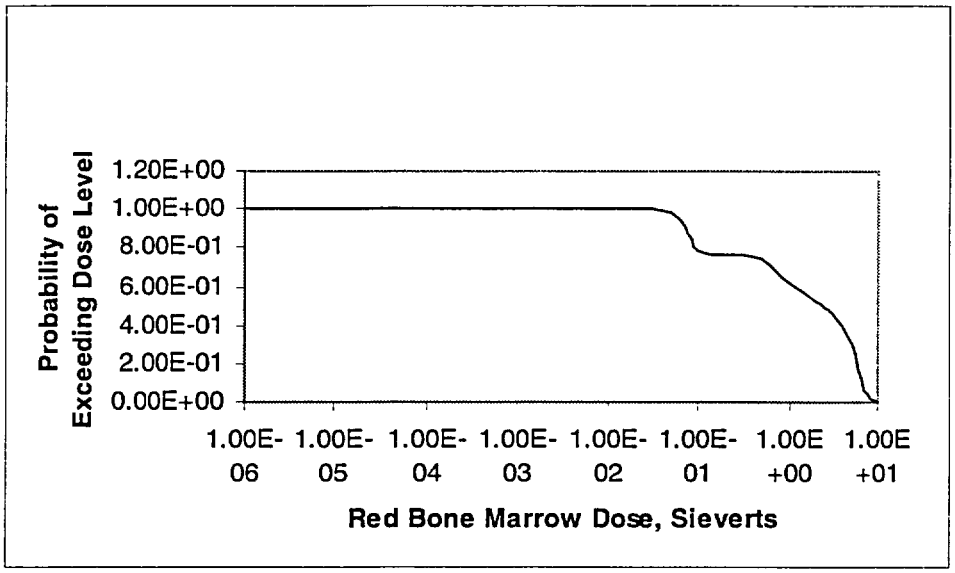

Figure 49-29

Site Boundary Red Bone Marrow Dose – CFL Source Term, 24 Hours

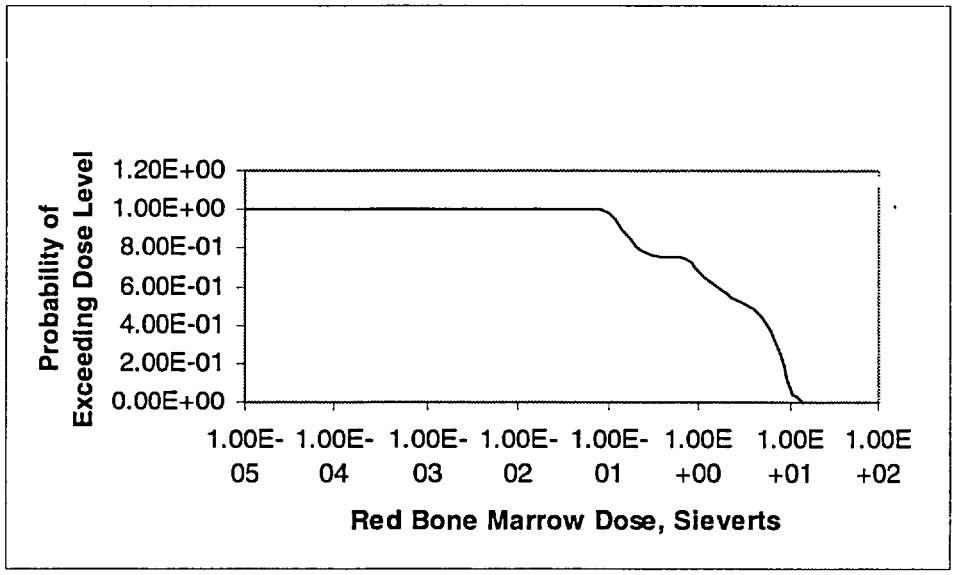

Figure 49-30

Site Boundary Red Bone Marrow Dose – CFL Source Term, 72 Hours

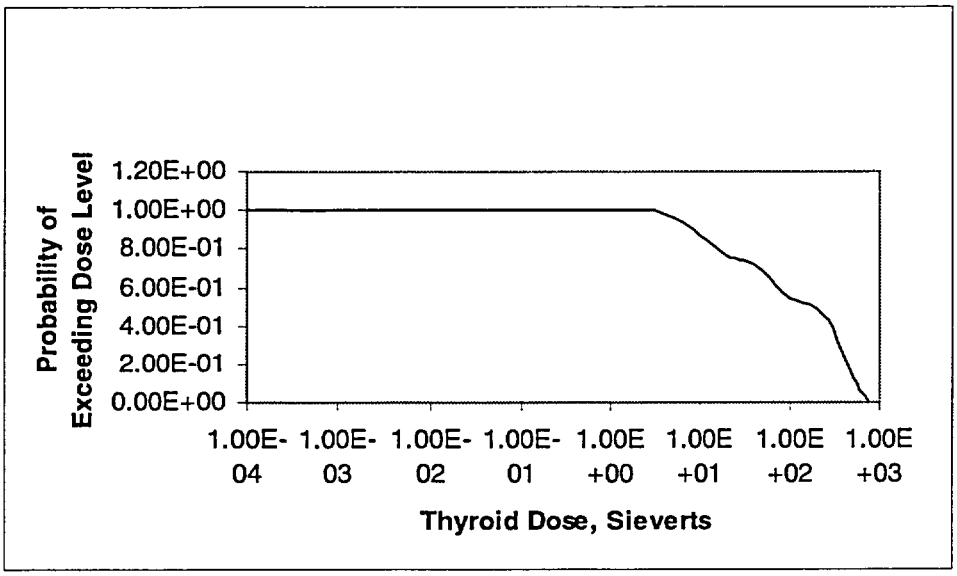

Figure 49-31

Site Boundary Thyroid Dose – CFL Source Term, 24 Hours

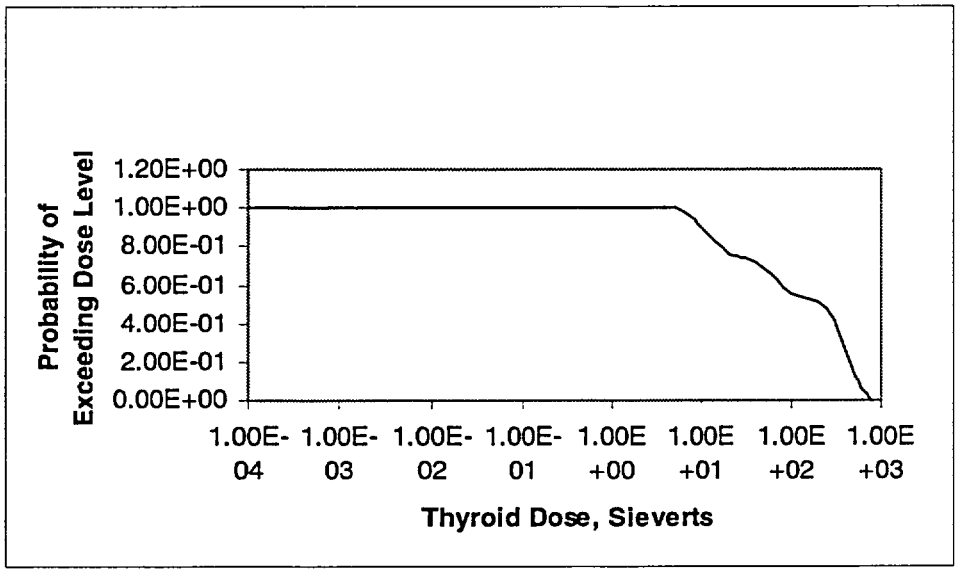

Figure 49-32

Site Boundary Thyroid Dose – CFL Source Term, 72 Hours

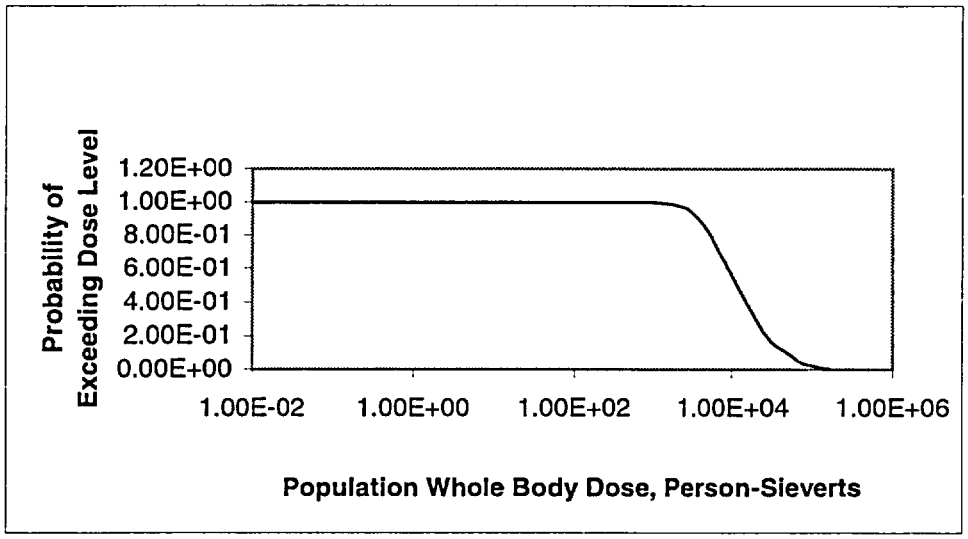

Figure 49-33

Population Whole Body Dose – CI Source Term, 24 Hours

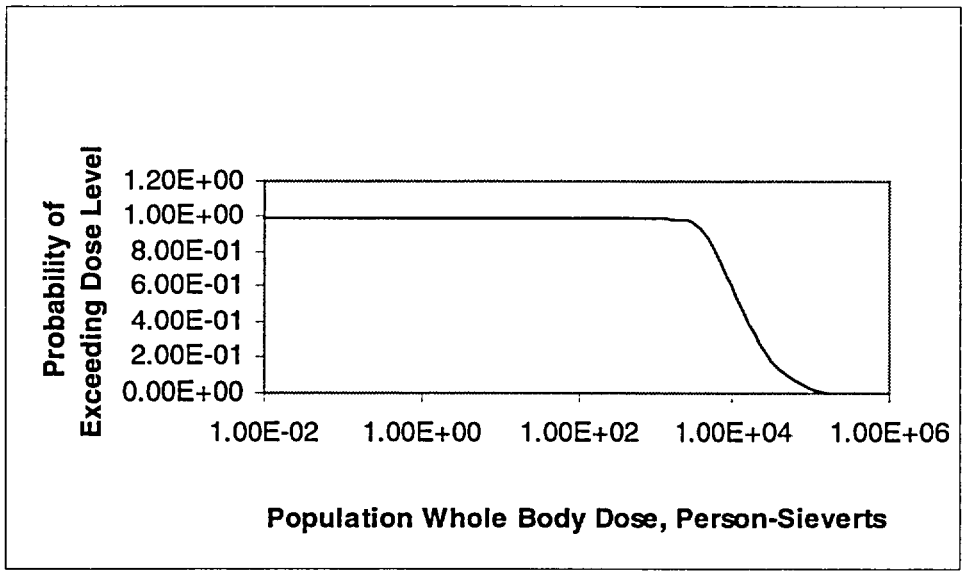

Figure 49-34

Population Whole Body Dose – CI Source Term, 72 Hours

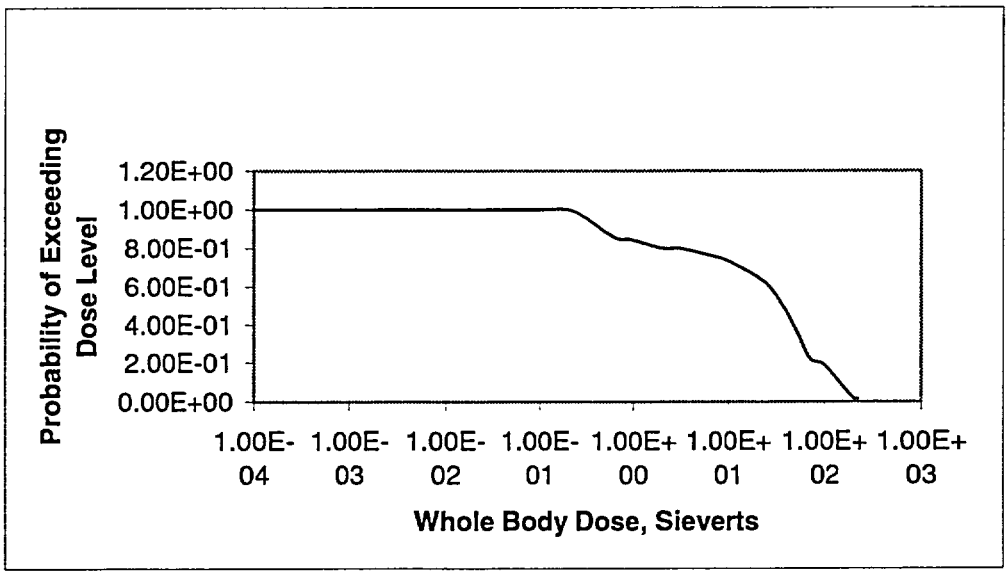

Figure 49-35

Site Boundary Whole Body Dose – CI Source Term, 24 Hours

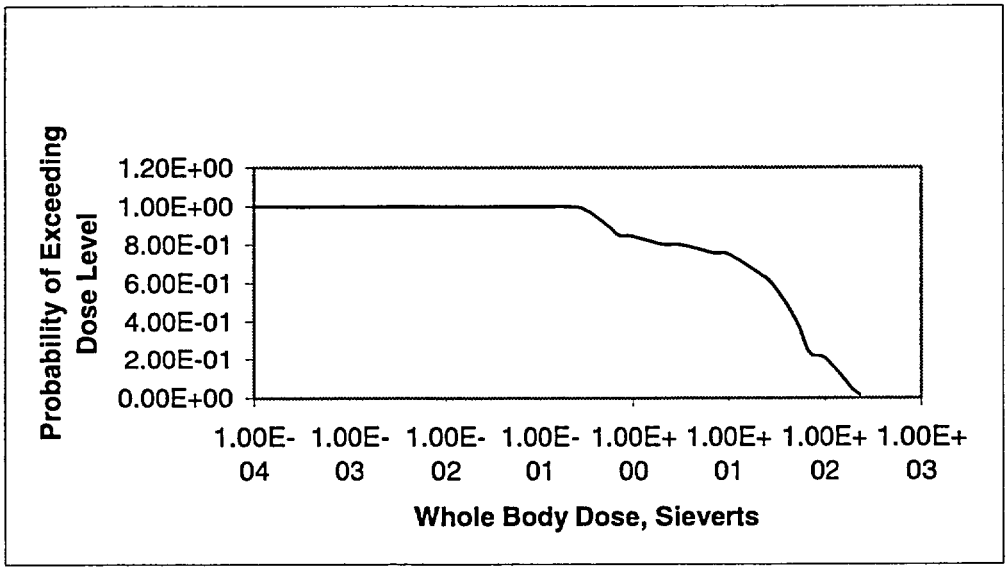

Figure 49-36

Site Boundary Whole Body Dose – CI Source Term, 72 Hours

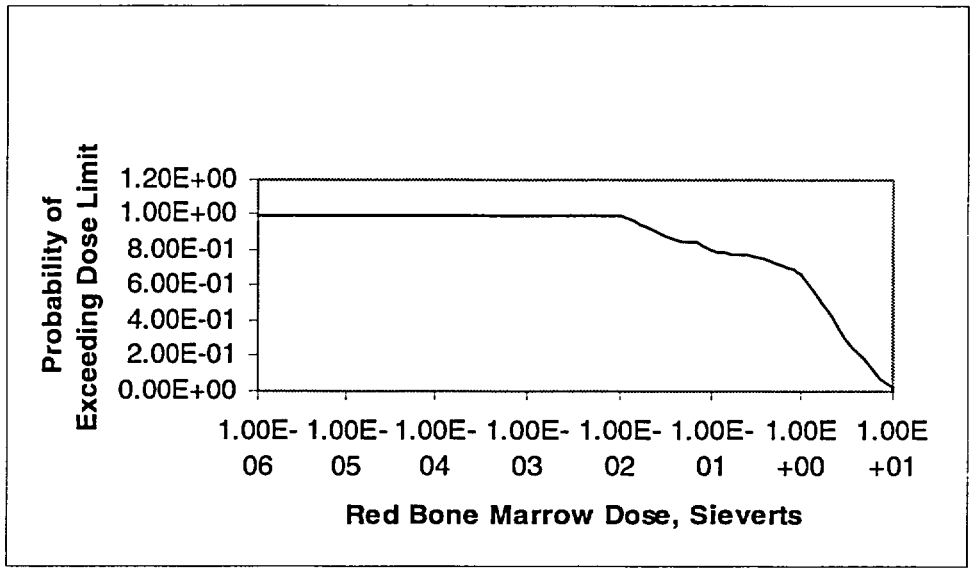

Figure 49-37

Site Boundary Red Bone Marrow Dose – CI Source Term, 24 Hours

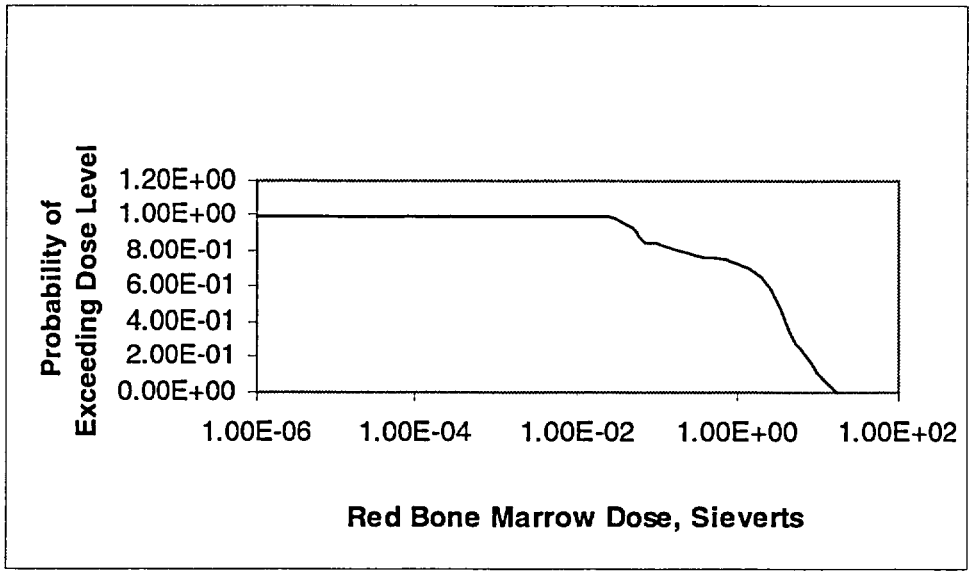

Figure 49-38

Site Boundary Red Bone Marrow Dose – CI Source Term, 72 Hours

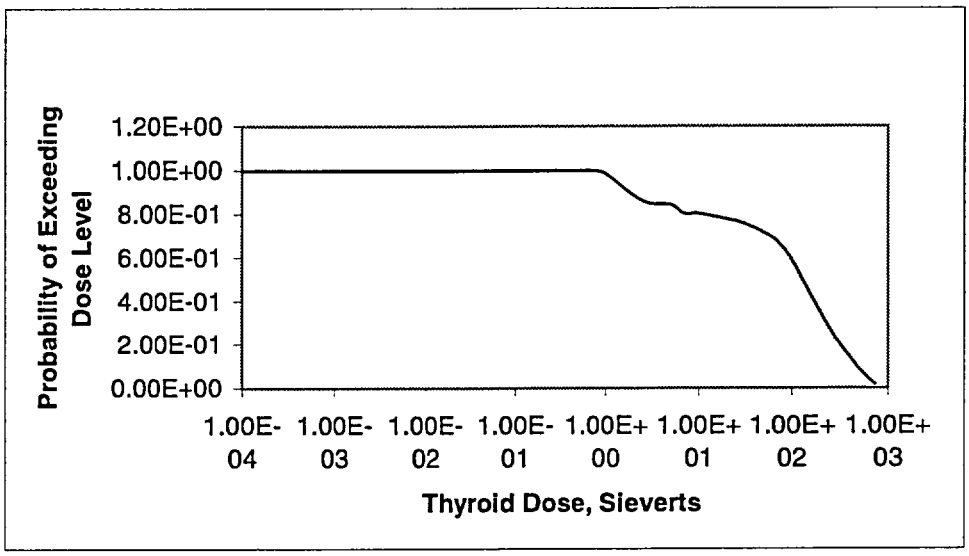

Figure 49-39

Site Boundary Thyroid Dose – CI Source Term, 24 Hours

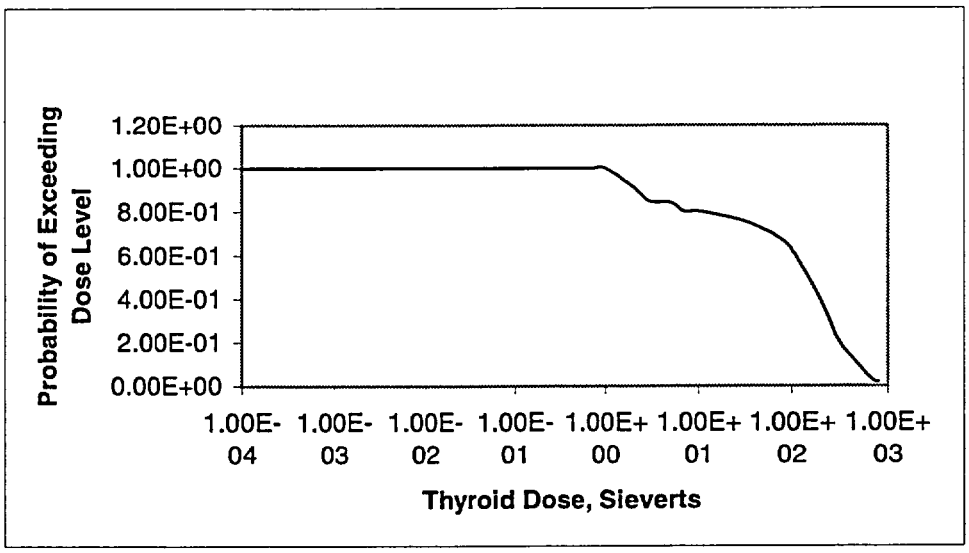

Figure 49-40

Site Boundary Thyroid Dose – CI Source Term, 72 Hours

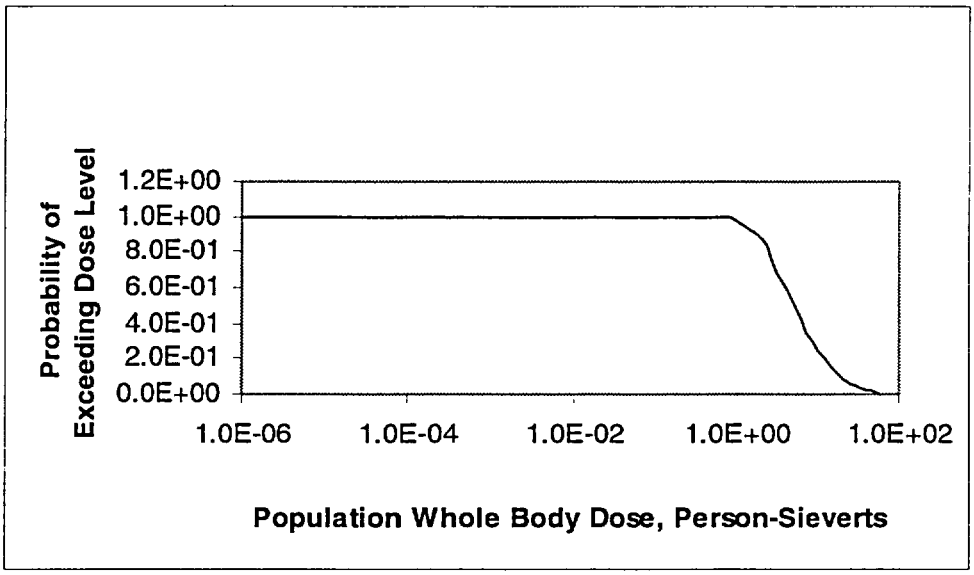

Figure 49-41

Population Whole Body Dose – DIRECT Source Term, 24 Hours

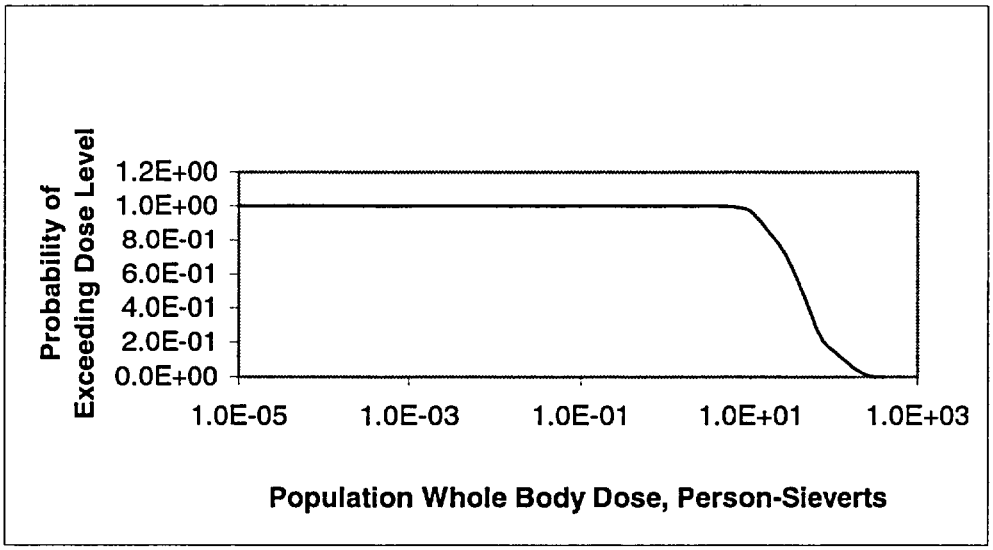

Figure 49-42

Population Whole Body Dose – DIRECT Source Term, 72 Hours

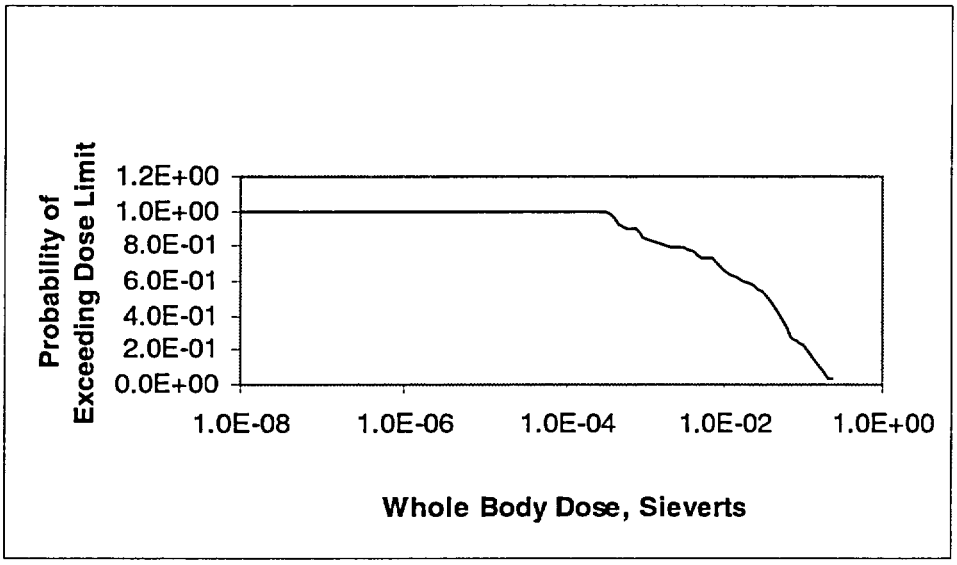

Figure 49-43

Site Boundary Whole Body Dose – DIRECT Source Term, 24 Hours

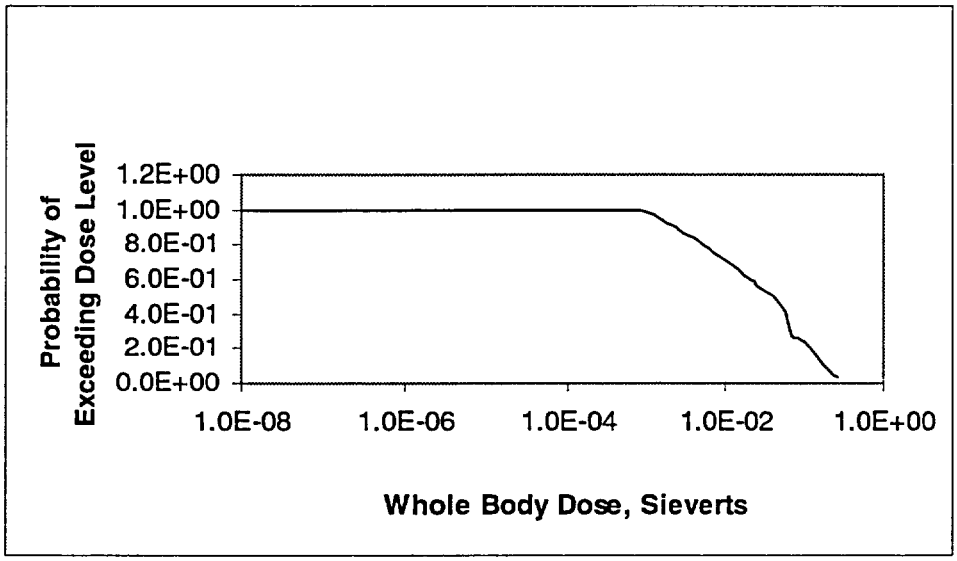

Figure 49-44

Site Boundary Whole Body Dose – DIRECT Source Term, 72 Hours

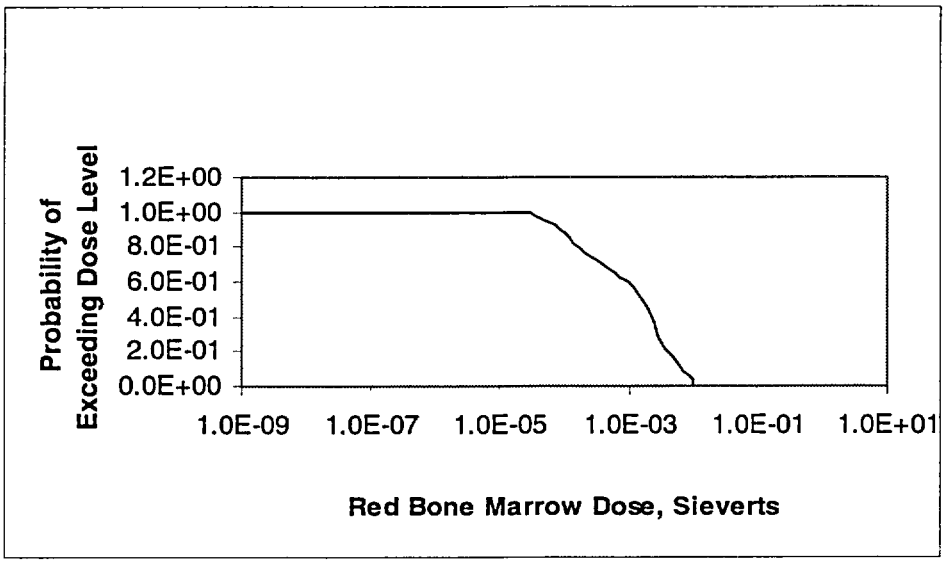

Figure 49-45

Site Boundary Red Bone Marrow Dose – DIRECT Source Term, 24 Hours

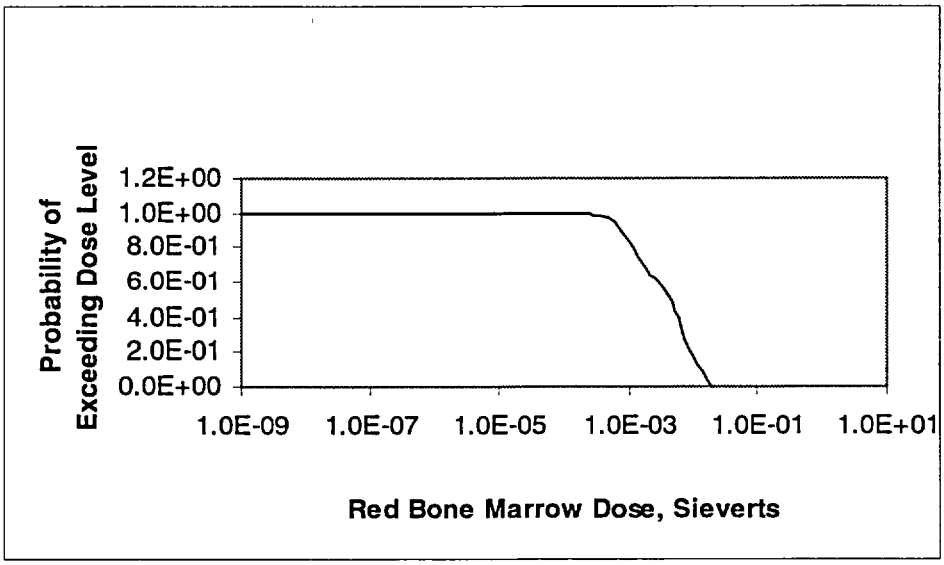

Figure 49-46

Site Boundary Red Bone Marrow Dose – DIRECT Source Term, 72 Hours

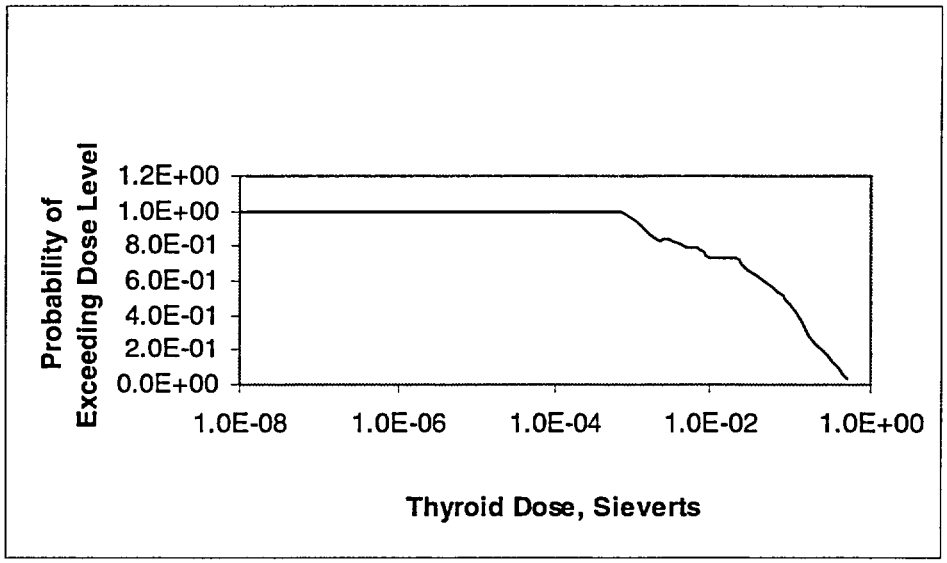

Figure 49-47

Site Boundary Thyroid Dose – DIRECT Source Term, 24 Hours

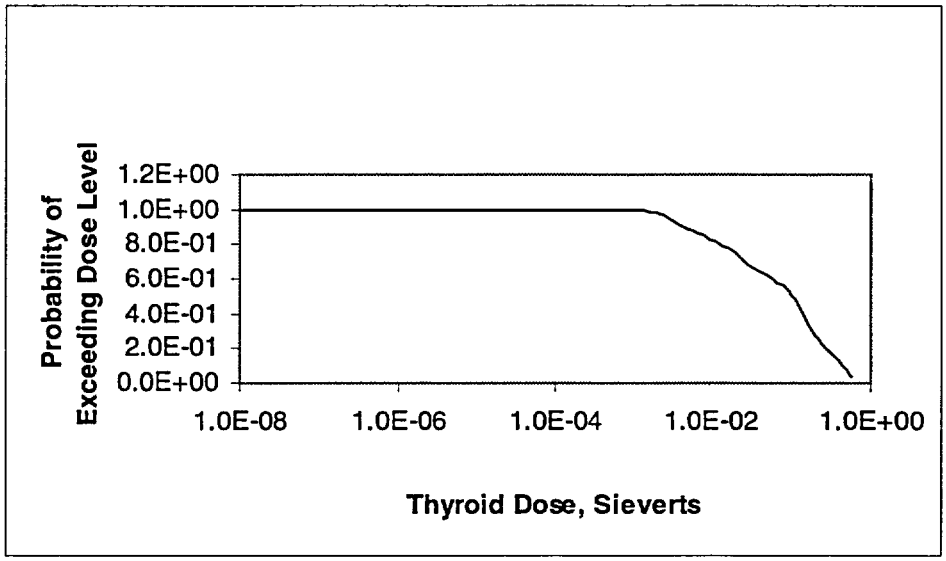

Figure 49-48

Site Boundary Thyroid Dose – DIRECT Source Term, 72 Hours

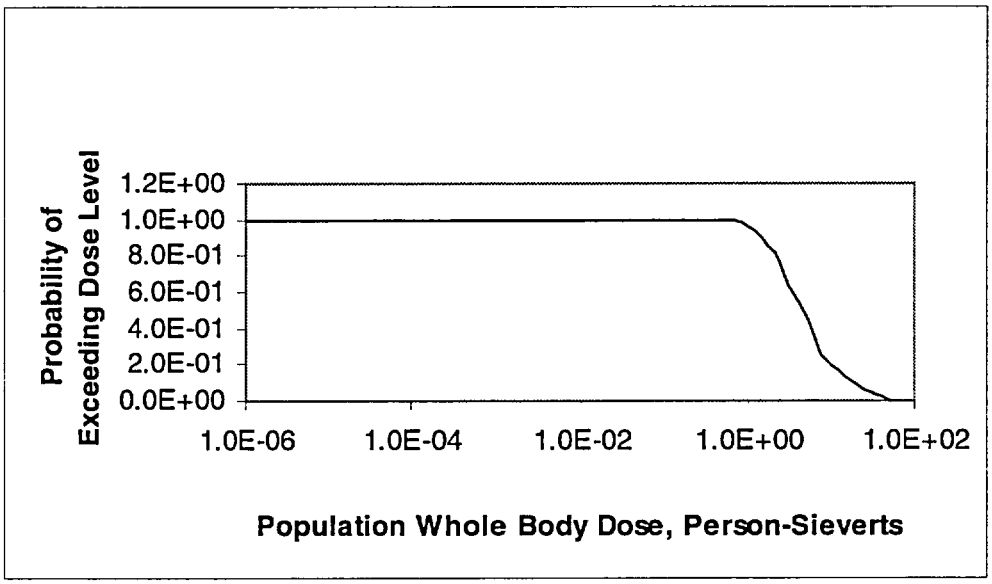

Figure 49-49

Population Whole Body Dose – IC Source Term, 24 Hours

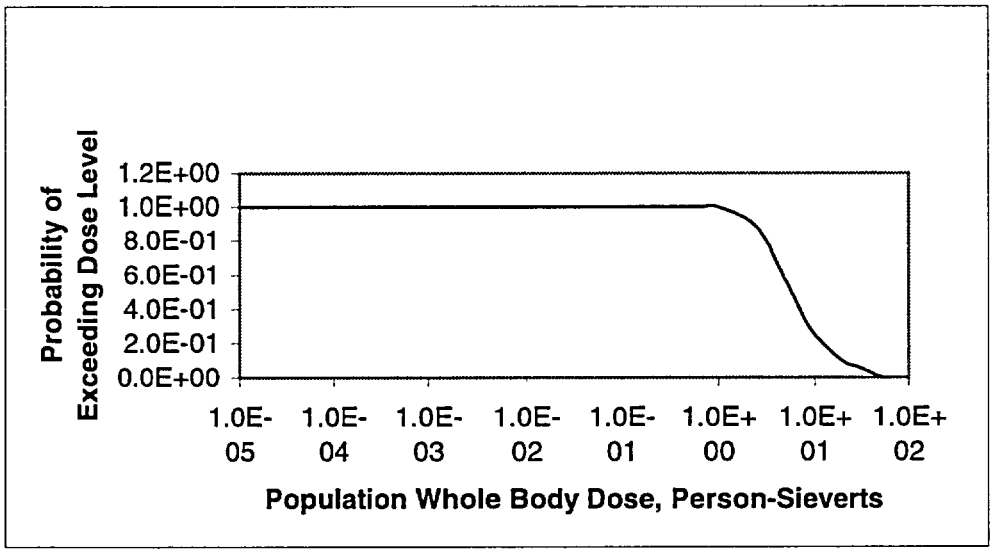

Figure 49-50

Population Whole Body Dose – IC Source Term, 72 Hours

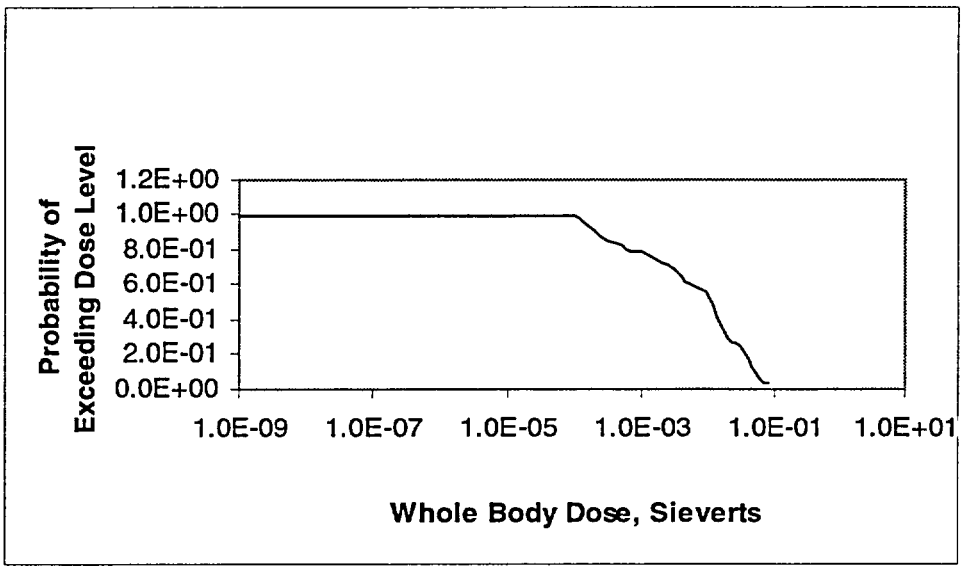

Figure 49-51

Site Boundary Whole Body Dose – IC Source Term, 24 Hours

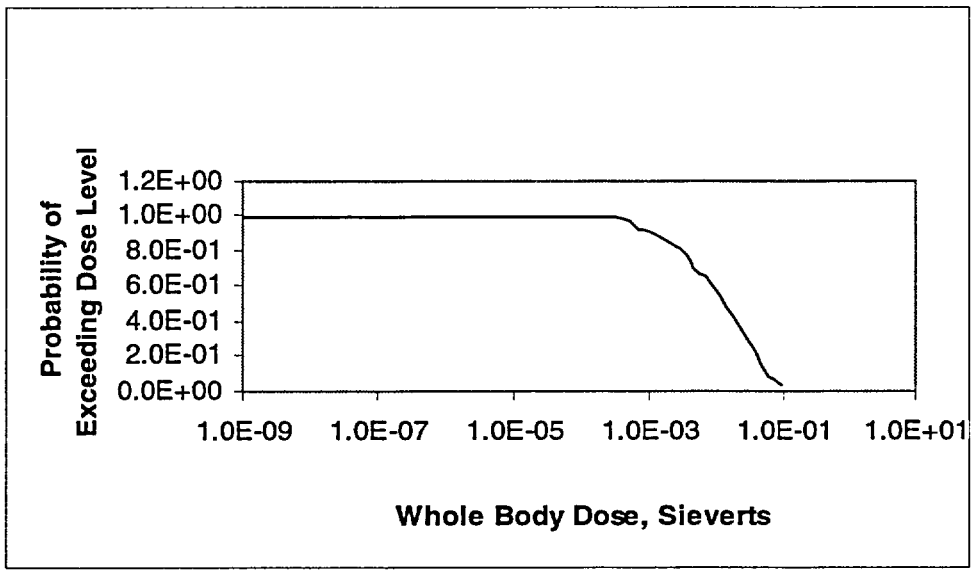

Figure 49-52

Site Boundary Whole Body Dose – IC Source Term, 72 Hours

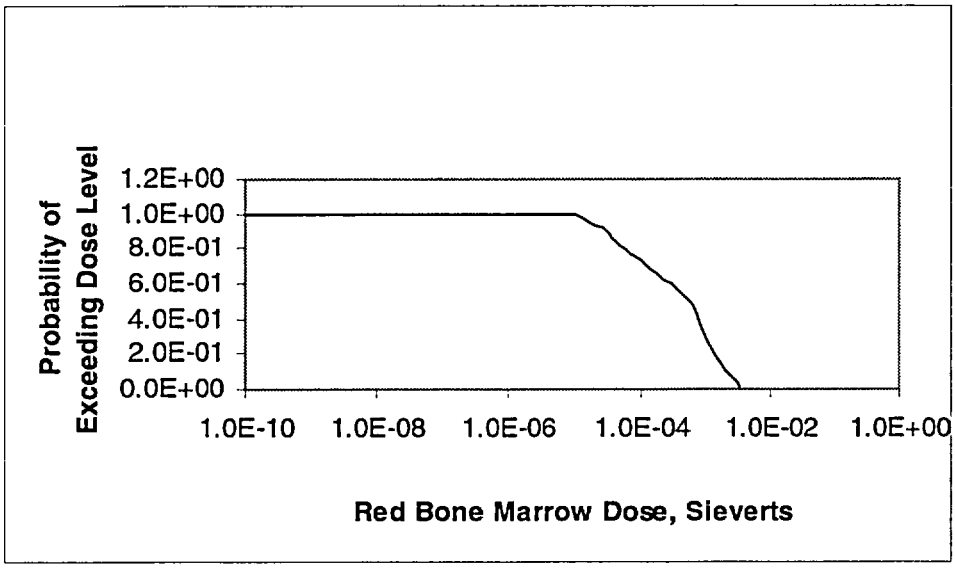

Figure 49-53

Site Boundary Red Bone Marrow Dose – IC Source Term, 24 Hours

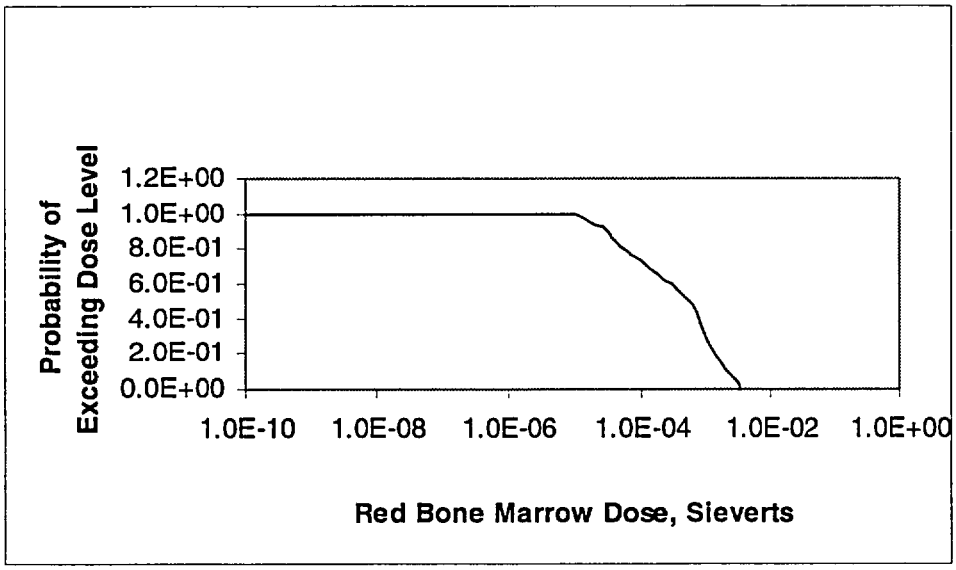

Figure 49-54

Site Boundary Red Bone Marrow Dose – IC Source Term, 72 Hours

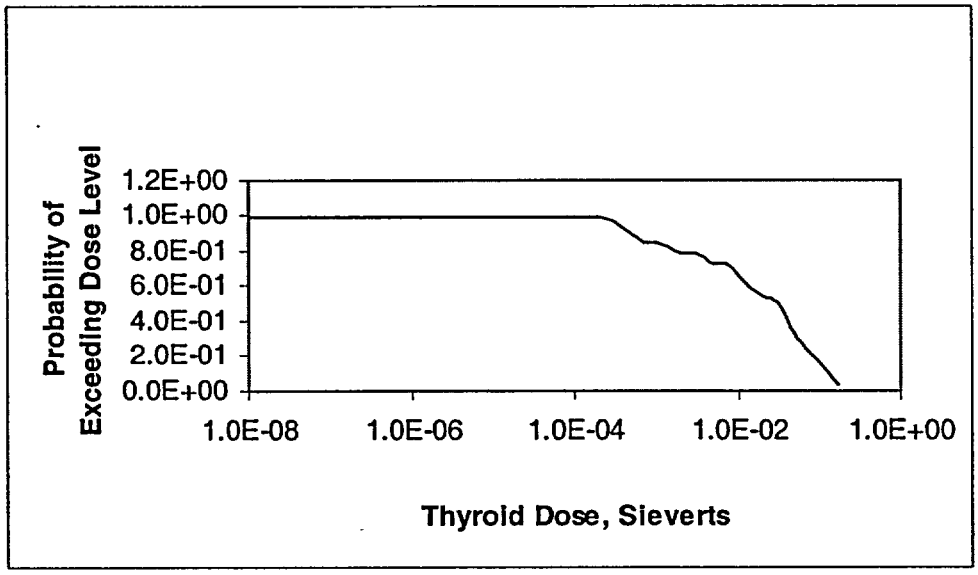

Figure 49-55

Site Boundary Thyroid Dose – IC Source Term, 24 Hours

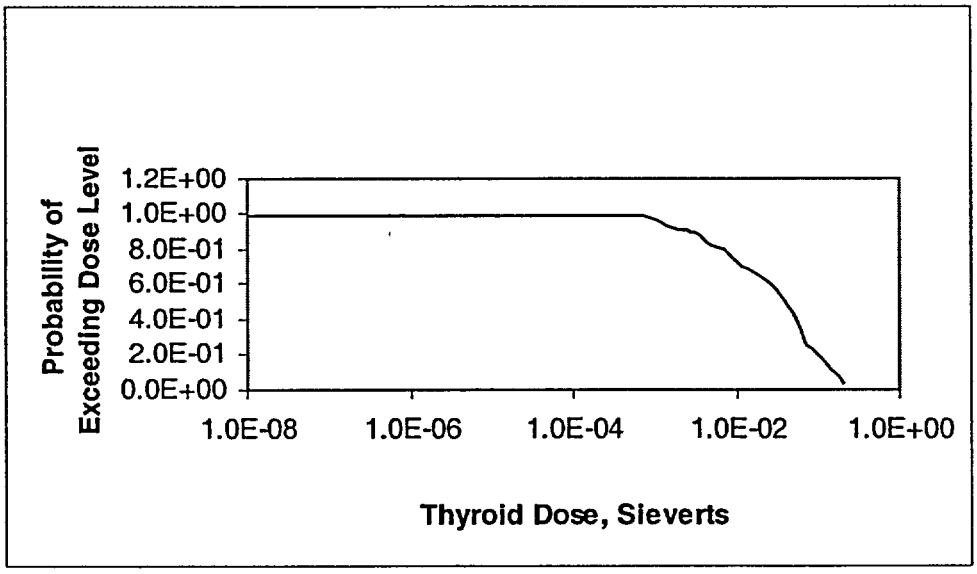

Figure 49-56

Site Boundary Thyroid Dose – IC Source Term, 72 Hours

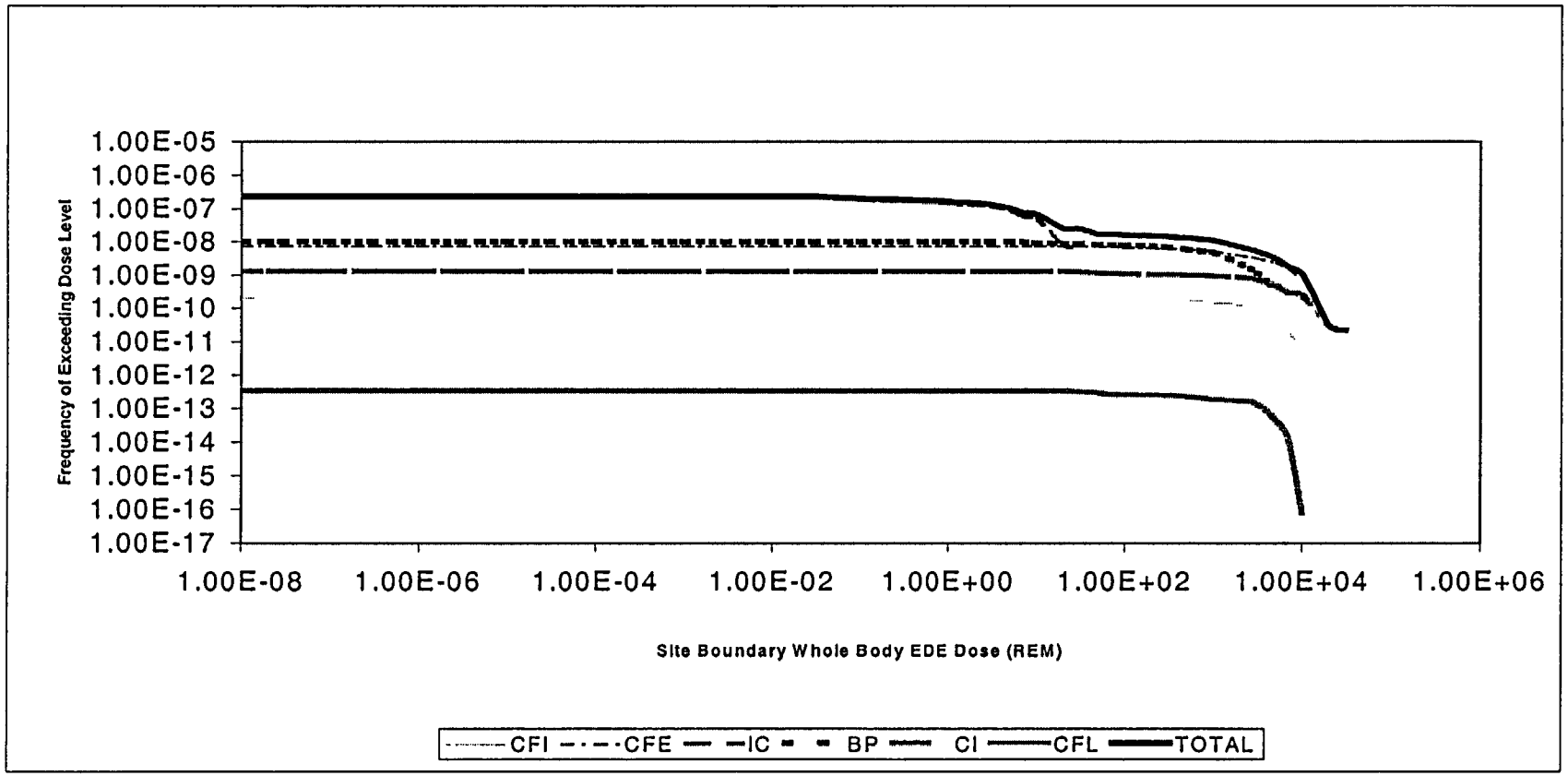

Figure 49-57

Overall Dose Risk – Site Boundary Whole Body EDE Dose, 24 Hours

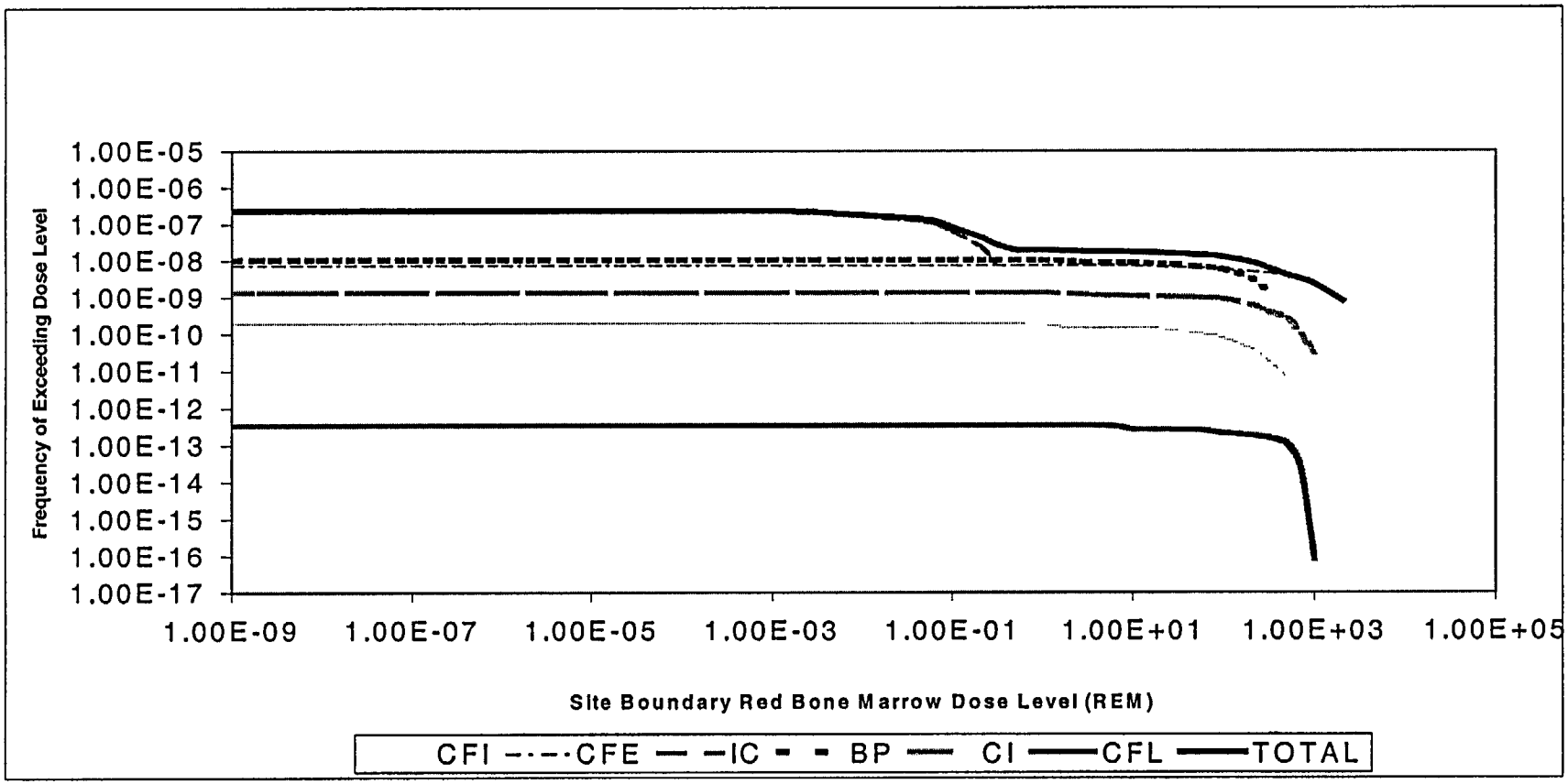

Figure 49-58

Overall Dose Risk – Site Boundary Red Bone Marrow Dose (Acute), 24 Hours

CHAPTER 50

IMPORTANCE AND SENSITIVITY ANALYSIS

50.1 Introduction

Importance and sensitivity analyses have been performed for the AP1000 at-power PRA. These analyses are chosen among numerous potential candidates to address the following issues:

- Importances of individual basic events in their effect on plant core damage frequency (CDF)
- Importances of safety and non-safety systems in maintaining current plant core damage frequency
- Importances of containment safeguards systems in maintaining current severe release frequency
- Effect of human reliabilities as a group on plant core damage frequency
- Special issues

The importance and sensitivity studies are organized in the following subsections:

- 50.2 Importance analyses for core damage
- 50.3 System importances for core damage
- 50.4 Human error sensitivity analyses
- 50.5 Other sensitivity analyses for core damage

The importance and sensitivity analyses results are summarized in Section 50.6.

50.2 Importance Analyses for Core Damage

The core damage results for internal initiating events at power has 599 basic events (including initiating events, component failures, human error, common cause failures) in over 19,000 core damage cutsets. The importance analysis of these basic events is provided in this section. The results are given in terms of risk decrease (set basic event probability to 0.0) and risk increase (set basic event probability to 1.0) measures.

In this section, the various importances associated with at-power initiating events core damage analysis are discussed in terms of:

- Initiating events
- Accident sequences
- End states
- Common cause

- Human errors
- Component failures

The relative importance of all basic events appearing in the cutsets for the baseline core damage quantification are presented in Tables 50-22 through 50-25. These tables show risk decrease (i.e., the factor by which the core damage frequency would decrease if the failure probability for a particular basic event were set to zero; also referred to as risk reduction worth) and risk increase (i.e., the factor by which the core damage frequency increases if the failure probability for a given basic event were set to one; also referred to as risk achievement worth), respectively. Risk decrease is a useful measure of the benefit that might be obtained as a result of improved component maintenance or testing, better procedures or operator training, and so forth. Risk increase is a useful measure of which components or actions would most adversely affect the core damage frequency if actual operating practices resulted in higher failure probabilities than assumed.

50.2.1 Initiating Event Importances

The AP1000 plant core damage frequency for internal initiating events at power is calculated to be 2.4E-07 events per year. Twenty-six separate initiating event categories are defined to accurately represent the AP1000 design. Of these categories of events, eleven are LOCAs, twelve are transients, and three are ATWS precursors (that is, initiating events that result in an ATWS sequence as a result of failure to trip the reactor). Where appropriate, plant-specific initiating event categories such as safety injection line breaks, core makeup tank (CMT) line breaks, and passive residual heat removal (passive RHR) tube ruptures have also been defined and evaluated. The resulting core damage frequency is very small; a value of 2.4E-07 means that only one core damage event is expected in approximately four million plant-years of operation.

The contribution of initiating events to the total plant core damage frequency is summarized in Table 50-1. This information is equivalent to risk decrease importance of the initiating events. The conditional probability of core damage, given that an initiating event occurs, is given in Table 50-2. These conditional probabilities are related to risk increase importance measure; they can be viewed as indicators of plant's robustness against the initiating events, given that the event has occurred.

From Table 50-1, eight initiating events, all being LOCAs, comprise approximately 93 percent of the total plant core damage frequency. These events are:

- Safety injection line break
- Large LOCA
- Spurious ADS actuation
- Small LOCA
- Medium LOCA
- Reactor vessel rupture
- Steam generation tube rupture (SGTR)
- Core makeup tank line break

Within this group of events, each of the first three events contributes more than 10 percent to the total core damage frequency. Those three events account for approximately 71 percent of the total core damage frequency. Small LOCA and medium LOCA contribute 7.5 and 6.7 percent, respectively, to the CDF. Reactor vessel rupture, steam generator tube rupture, and CMT line break contribute less than 5 percent each to the total CDF.

The remaining 18 initiating events contribute a total of approximately 6.95 percent to the plant core damage frequency from internal events.

50.2.2 Accident Sequence Importances

Out of many hundreds of accident sequences modeled, 186 of them provide contribution to the plant CDF. Ninety-nine of these sequences contribute 99.9 percent to the total CDF. Twenty-three dominant core damage sequences make up 92.6 percent of the total CDF. These dominant sequences are given in Table 50-3.

The first four dominant accident sequences make up 64 percent of the CDF. These sequences are:

1. Safety injection line break event occurs, which is postulated to lead to spill of one train of CMT, in-containment refueling water storage tank (IRWST), and recirculation flows. The reactor is tripped. The second CMT tank successfully injects, and ADS is successfully actuated. Thus, the reactor coolant system (RCS) pressure is low. However, the remaining IRWST line fails to inject to core damage with low RCS pressure, leading to 3BE end state is postulated. The sequence frequency is 6.88E-08/year, contributing 28.5 percent to the plant CDF.

2. Large LOCA event occurs, and the reactor is tripped. One out of two accumulators fails to actuate. Core damage with low RCS pressure, leading to 3BR end state is postulated. The sequence frequency is 4.3E-08/year, contributing 17.7 percent to the plant CDF.

3. Spurious actuation of the ADS occurs, and the reactor is tripped. The RCS rapidly depressurizes. Accumulator injection is successful. Full ADS fails (including failure of CMT). Core damage with medium RCS pressure, leading to 3D end state is postulated. The sequence frequency is 2.13E-08/year, contributing 9 percent to the plant CDF.

4. Safety injection line break event occurs, and the reactor is tripped. CMT injection is successful (with all RCS pumps successfully tripped). Automatic ADS actuation fails (full RCS depressurization fails). Core damage with medium RCS pressure, leading to 3D end state is postulated. The sequence frequency is 1.98E-08/year, contributing 8.2 percent to the plant CDF.

The fifth dominant sequence with 4.2 percent contribution to plant CDF is the reactor vessel rupture event. By the definition of this event, core damage is postulated to occur. The end state is 3C.

The remaining dominant sequences have contributions below that of reactor vessel rupture event, which is deemed to be improbable for this plant design.

50.2.3 End State Importances

The contribution of end states to plant CDF is summarized in Table 50-4. A low-pressure RCS core damage end state, 3BE, and a medium pressure RCS core damage end state, 3D, contribute 57.3 percent to the total CDF. Together with 3BR and 3BL, full or partially depressurized core damage states make up 86.5 percent of the core damage. In these end states, the probability of retaining containment integrity is very likely. Thus, severe release potential for these end states is low.

Containment bypass due to SGTR and interfacing systems LOCA (ISLOCA) events is given by end state 6, which contributes 3.95 percent to the total CDF. Loss of containment integrity is also postulated for vessel failure end state, 3C, which has a 4.1 percent contribution to total CDF.

The remaining 5.4 percent of the end states are those with high RCS pressure, where either ADS depressurization fails, or ATWS event occurs and is not mitigated. These end states have the potential to challenge containment integrity, if RCS depressurization after core damage is not achieved.

50.2.4 Common Cause Failure Importances

The risk-important common cause basic events are given in Tables 50-5 and 50-6 for risk decrease and risk increase measures, respectively. An examination of basic event importance results in Table 50-6 shows that common cause failures (CCFs) of all software cards and IRWST recirculation sump strainers are the most significant in maintaining the current level of low plant damage frequency, or potentially reducing it further.

From Table 50-6, common-cause failure of the following sets of components is found to have a large (or significant) impact on the estimated CDF from internal events (i.e., sets of components with highest risk increase worth):

- Software common cause failure of all protection and safety monitoring system (PMS) and plant control system (PLS) logic cards. Such a failure leaves diverse actuation system (DAS) as the remaining actuation and control function. Should such a common software failure occur and go undetected, the CDF from internal events would increase nearly 8000 times (from 2.4E-07 events per year to 1.9E-03 events per year).

- Common cause plugging of IRWST strainers or containment sump screen plugging. Opening of these valves is needed after most LOCA events, and after ADS operation in transients, when the feed and bleed operation is performed. Should such a failure occur, and go undetected, the CDF from internal events would increase more than 6000 times (from 2.4E-07 to 1.47E-03 per year).

- Common cause failure of IRWST injection and recirculation high-pressure squib valves. Opening of these valves is needed after most LOCA and transient events. Should such a failure occur, and go undetected, the CDF from internal events would increase more than 1600 times (from 2.4E-07 to 3.99E-04 per year).

- The next set of common cause (items numbered 8,9,10,11) are associated with ADS explosive valves, and IRWST injection check valves. Opening of these valves is needed after most LOCA events, and after ADS operation in transients, when the feed and bleed operation is performed. Should such a failure occur, and go undetected, the CDF from internal events would increase more than 1600 times (from 2.4E-07 to approximately 3.9E-04 per year).

- A set of common cause failures (failures numbered as 13 - 37 in Table 50-8) has approximately the same level of risk importance. These can be grouped as:

  - IRWST injection explosive valves and check valves
  - Passive core cooling system (PXS) air-operated valves
  - PMS engineered safety feature (ESF) software and hardware common cause failures
  - IRWST strainers
  - CMT air-operated valves, check valves, and tank failure
  - Accumulator check valves and tank failures
  - ADS motor-operated valves
  - Class 1E dc and uninterruptible power supply system (IDS) batteries fail

Each of such failures causes the core damage frequency to go above 1E-05 per year, when postulated to occur.

With respect to risk decrease importance (Table 50-5), common cause failure of automatic depressurization system squib valves show with a 9.6 percent risk decrease potential if they were made to be perfectly reliable. Other common cause failures have a much smaller impact if they were made perfectly reliable.

50.2.5 Human Error Importances

In this section, a summary discussion of "operator actions" as they appear in the dominant core damage cutsets is provided first. The risk-important tasks are identified (Tables 50-7 and 50-8) and are discussed. Finally, the importance of "local" (actions outside the control room) actions is discussed.

The following represents an initial evaluation of human error basic event importances based on the base core damage frequency results.

Tables 50-7 and 50-8 show the relative importances for human error basic events only. Table 50-7 indicates human error basic event importance using the risk reduction worth method. Table 50-8 shows human error basic event importance using the risk achievement worth method, for those events for which guaranteed failure would result in an increase in core damage frequency.

The risk increase table shows that the most significant control room crew failure is the failure to diagnose the SGTR event. This failure eliminates the possible use of non-safety related systems to mitigate the event, thus forcing only the safety systems to mitigate it. If this action is postulated to fail, the plant core damage frequency increases 7.6E-07 per year to 1.29E-06

per year. This is a 534 percent (or a 6.34 fold) increase. This also shows that failure of no single operator action would make the plant core damage frequency go above 1.29E-06 per year.

According to Table 50-8, there are 3 additional operator failures that would increase the plant core damage frequency by 200 percent or more. All of these failures are control room actions; no local operator actions are risk important. These operator actions are:

- Operator fails to manually actuate ADS upon failure of automatic actuation due to either CMT failure or ADS actuation failure. Failure of this action would increase plant core damage frequency by 325 percent to a total of 7.82E-07/year.

- Operator fails to actuate containment sump recirculation given that the IRWST level sensors fail and automatic actuation does not occur. Failure of this action would increase plant core damage frequency by 289 percent, to a total of 6.96E-07/year.

- Operator fails to perform a controlled manual shutdown to control and mitigate an RCS leak event. In that case, the event may generate a reactor trip if chemical and volume control system (CVS) water is depleted. Failure of this action would increase plant core damage frequency by 230 percent to a total of 5.35E-07/year.

The risk decrease table shows that there are only four operator actions with importances greater than 1 percent. There are no operator actions that have a risk decrease contribution of more than 5 percent. This indicates that there would be no significant benefit from additional refinement of the actions modeled.

50.2.6 Component Importances

In this section, the following component importances are discussed.

It is useful to separate these into several classes of basic events (i.e., initiating events, hardware events, and human error events), in order to review the most important within each class. Tables 50-9 and 50-10 show the relative importances for hardware-related basic events only. Table 50-9 indicates hardware or component importance using the risk decrease method, for the those components having a 0.30 percent or greater importance. Table 50-10 shows component importance using the risk increase method, for those components for which guaranteed failure would result in at least a factor of 2 increase in core damage frequency.

The ten most significant single failures, based on the risk achievement worth evaluation, are as follows:

- IRWST Discharge Line "A" Strainer Plugged – This failure applies only to safety injection line break events and causes the plant core damage frequency to increase by a factor of 881 (to 2.12E-04/year), if the probability of this failure is set to 1.0. The importance of this failure is due to the safety injection line break initiator, in which injection using the redundant IRWST injection line fails as part of the initiating event.

- Plug/leak of passive RHR heat exchanger or failure of passive RHR due to IRWST tank failure (items 33 and 34). Each of these failures would fail the passive RHR system and would increase the plant core damage frequency by a factor of 70 making the plant CDF from internal events increase from 2.4E-07/yr to 1.7E-05/yr, if the probability of this failure is set to 1.0. This is a failure of the heat sink for passive RHR. Its importance comes from transient sequences, in which success of passive RHR leads to sequence success, but failure of passive RHR leads to sequences in which core damage can occur.

- Accumulator flow tuning orifice plugs or ruptures (events 41, 45, 46). Also accumulator tank rupture (events 44 and 47) or failure of one of two accumulator check valves in series on the same line (events 42 and 43). These failures are associated with the safety injection line break event, and conservatively postulate failure of accumulator injection. Each of these failures would increase the plant core damage frequency to about 5.5E-06/year, if the probability of this failure is set to 1.0.

The risk decrease table shows that only one component failure contributes more than 10 percent to the total CDF. This is the IRWST discharge line plugging event, with a risk decrease importance of 21.1 percent. The next two failures of importance are accumulator line "A" check valves failing to open with a risk decrease importance of 4 percent. The next failures of importance are accumulator line "B" check valves failing to open with a risk decrease importance of 3.8 percent. The next two components with a less than 2 percent contribution each are related to accumulator flow turning orifices plugging.

The remaining components each have a risk decrease importance of 1.5 percent or less.

50.3 System Importances for Core Damage

In this section, system importance for plant core damage frequency for internal initiating events at power is performed (cases 9 through 28), by setting each system failure probability equal to 1.0 and recalculating the core damage frequency.

Table 50-11 contains the list of systems for which the system importances are calculated. Each case is assigned a case name.

The results of the sensitivity analyses are summarized in Table 50-12.

Note that the system importances are calculated by "failing" certain basic events in the plant core damage cutset file; the basic events failed (or modified) to simulate a system are listed in Table 50-13. Sometimes, a basic event is shared by multiple systems and its failure affects more than the system intended to be failed. An example of such a situation is the common cause failure of pumps to run for component cooling water system (CCS) (CCX-PM-ER); if this basic event is set to failure, then the turbine building closed water system and central chilled water system are also failed since it uses the same failure mode. If this basic event is not set to failure, the CCS system importance is slightly underestimated. Both cases were run. It was observed that failing the common caused event for CCS importance misrepresents CCS importance so acutely that it was decided to keep it in at the cost of a slight non-conservatism in CCS importance. This is the result that was reported as Case 23. One can

already see that the system importances of CCS, service water system (SWS), and normal residual heat removal system (RNS) are about the same, as expected.

From Table 50-12, it is observed that:

- The most important system is PMS; if no credit is taken for PMS, the plant core damage frequency becomes 1.59E-02/year.
- The next important system is Class 1E DC power; if no credit is taken for this system, plant core damage frequency becomes 5.65E-03/year.
- The next set of important systems are IRWST recirculation, ADS, and IRWST injection, with CMT following.
- The above mentioned systems make up the most important systems in maintaining low plant core damage frequency, according to the system importance calculations of this section.
- No non-safety system has a risk increase contribution greater than 1E-05, which shows that a complete failure of such a non-safety system does not increase the plant core damage frequency above 1E-05. Thus, no single non-safety system has significant importance in avoiding plant core damage.

Table 50-13 groups the system importances by the plant core damage frequency order of magnitude reached when the system is assumed unavailable.

50.4 Human Error Sensitivity Analyses

Sensitivity analysis of operator action failure probabilities is performed to study the impact of human errors on plant core damage frequency for internal initiating events at power (cases 29 through 31). The following three cases are studied:

- Case 29 set human error probabilities (HEPs) to failure in core damage output file (CMTOT.OUT)
- Case 30 set HEPs to 0.0 in CMTOT.OUT
- Case 31 set HEPs to 0.1 in CMTOT.OUT

The objective of these sensitivity analyses is to investigate:

- What would be the plant core damage frequency if no credit is taken for operator actions (case 29)?
- What would be the benefit in making the operator actions more reliable than those in the base case (case 30)?
- What would be the impact increasing all operator actions failure probability (case 31)?

These cases are further discussed in the following subsections.

The core damage results are summarized in terms of cutsets in the CMTOT.OUT file, which contains 19,374 cutsets for the 26 initiating event categories. The file has 599 basic events (initiating event frequencies, component failures, operator action failures, etc.). The base core damage frequency for internal initiating events at power is 2.41E-07/year. Out of these 599 basic events, 30 are operator actions (24 events are independent and 6 events are conditionals). These actions, as extracted from the CMTOT.OUT file, are given in Table 50-14.

Moreover, there is an additional basic event named ALL-IND-FAIL (1.0E-06) representing the failure of all indications (PMS or PLS or DAS originated), which, if it fails, would render multiple operator actions ineffective. This basic event is "or gated" with all operator actions that show in the instrumentation and control (I&C) sub-trees. Thus, the plant core damage cutsets that contain this basic event actually may represent other dropped cutsets that contain multiple operator actions (this event can be viewed as a common cause failure leading to failure of multiple operator actions in a given cutset or a sequence.

50.4.1 Set HEPs to 1.0 (Failure) in Core Damage Output File

In this sensitivity analysis (case 29), 31 basic events (29 HEPs and the indication failure) are set to failure (these events are set to "drop" in the SENS code, that is, the failure rate is set to 1.0 and the event is removed from the cutsets).

The result of the sensitivity analysis shows that the core damage frequency increases by a factor of 57 to 1.37E-05/year, if no credit is taken for operator actions. This is a significant increase, although the resulting core damage frequency is still low. This means that, in general, operator actions are important in maintaining a very low plant core damage frequency for internal events at power.

Table 50-15 shows the contribution of initiating event categories to core damage for this sensitivity case. Also shown in the same table are the base case results and the ratio of the base case frequency to the sensitivity case frequency for each initiating event category. An examination of the cutsets is given in Table 50-16. Table 50-16 shows that there are two dominant contributors to this sensitivity case:

1. Following a event such as LOCA, SGTR, main steam line stuck-open valve (SLB-V), if the reactor coolant pumps (RCPs) do not trip (as represented by the failure of RCP circuit breakers fail to open basic event), safe shutdown cannot be attained without an operator action; namely, CMTs do not inject and ADS is not automatically actuated.

2. Following any ATWS precursor (including the ones where main feedwater (MFW) is available), common cause failure of PMS hardware; success of diverse actuation system (DAS) but failure of motor generator set supply breakers (MGSETs) to open, would lead to condition where safe shutdown cannot be attained without an operator action; i.e., operator terminating ATWS conditions through DAS supported equipment.

50.4.2 Set HEPs to 0.0 (Success) in Core Damage Output File

This case is similar to Case 30, except all of the 30 operator action HEPs, and the ALL-IND-FAIL event are set equal to 0.0 (perfect operator) in the CMTOT.OUT file.

The resulting core damage frequency is 2.18E-07/year. The ratio of the sensitivity case frequency to the base frequency is 0.9, which shows a decrease of 8 percent. This indicates that the operator actions are not risk important at the level of plant risk obtained by the base case. An examination of the dominant cutsets is given in Table 50-17.

50.4.3 Set HEPs to 0.1 in Core Damage Output File

The purpose of this sensitivity study (case 31) is to see the effects on the core damage frequency by raising the human error probabilities to 0.1. This case is performed similarly to the previous two sensitivity cases.

The resulting core damage frequency is 1.574E-06/yr. The ratio of the sensitivity case frequency to the base frequency is 6.5. This is a considerable increase in CDF due to a slight increase in HEP. The resulting CDF is still very low. This indicates that, in general, operator actions are important in maintaining a very low plant core damage frequency for internal initiating events at power.

An examination of the dominant cutsets is given in Table 50-18.

50.5 Other Sensitivity Analyses for Core Damage

In this section, additional sensitivity analyses for at-power internal initiating events are presented.

50.5.1 Impact of Passive System Check Valves on Core Damage Frequency

The purpose of this sensitivity study (case 32) is to evaluate the impact of passive system check valves on core damage frequency. This is done by decreasing the reliability of these check valves by a factor of 10. The methodology and results of this sensitivity case are discussed below.

The total plant core damage frequency quantification output file (see Chapter 33) contains 19,374 cutsets for the 26 initiating event categories. The file has 599 basic events (initiating event frequencies, component failures, operator action failures, etc.). The base core damage frequency for internal initiating events at power is 2.41E-07/year. Out of these 599 basic events, 16 are random failures of the passive system check valves and common cause failures among them. These check valves and their common cause, as extracted from the file, are given in Table 50-19.

Using the SENS code, with the CMTOT.OUT file as input, the failure probabilities of passive system check valves (including their common cause failures) are increased by a factor of 10. The updated file is then requantified.

The result of the sensitivity analysis shows that the core damage frequency increases by a factor of 3.7 to 8.83E-07/yr. This is a minor increase and the resulting core damage frequency is still low.

50.5.2 Sensitivity to Squib Valve Failure Probability

Squib valves are used in ADS, IRWST injection, and containment recirculation functions. A sensitivity (case 33) to the failure of these valves is done by increasing the common cause failure probability of basic events associated by these valves by a factor of 10:

Basic Event	Base Case Failure Prob. (/demand)	New Failure Prob. (/demand)
ADX-EV-SA	3.00E-05	3.00E-04
ADX-EV-SA2	5.90E-05	5.90E-04
IWX-EV-SA	2.60E-05	2.60E-04
IWX-EV1-SA	5.80E-06	5.80E-05
IWX-EV2-SA	5.80E-06	5.80E-05
IWX-EV4-SA	5.80E-05	5.80E-04

After replacing the new probabilities in the core damage cutsets output file, the new plant CDF is calculated to be 6.59E-07/year. This is an increase by a factor of 2.7 over the base case CDF. Thus, the plant CDF has some sensitivity to the squib valve failure probability.

50.5.3 Sensitivity to Circuit Breaker Failure Probability

Two types of special breakers are distinguished for this sensitivity case:

1. Reactor trip breakers
2. Reactor coolant pump breakers

1. Reactor Trip Breakers (Case 34)

This failure is represented by the common cause failure basic event RCX-RB-FA with a failure probability of 8.1E-06. If the failure probability is increased by a factor of 10, the plant CDF becomes 2.411E-07/year; this is a negligible increase.

2. Reactor Coolant Pump Breakers (Case 35)

This failure is represented by the common cause failure basic event RPX-CB-GO with a failure probability of 4.2E-04. If the failure probability is increased by a factor of 10, the plant CDF becomes 2.87E-07/year; this is a 15 percent increase. This increase is small.

50.5.4 Sensitivity to Standby Systems

This section documents the sensitivity analysis named as case 36, performed on the core damage frequency results of the AP1000 PRA internal events at-power. The objective of this analysis is to estimate the core damage frequency (CDF) for internal events at-power when no credit is taken for five standby systems which may not be available following an initiating event. These five systems (which are taken credit for in the base AP1000 PRA) are:

1. Chemical and Volume Control System (CVS)
2. Startup Feedwater System (SFW)
3. Normal Residual Heat Removal System (RNS)
4. Diverse Actuation System (DAS)
5. Diesel Generators (DG)

The PRA CDF cutsets for this analysis are taken from the AP1000 base PRA. The starting point is the CDF cutsets file CMTOT.OUT. The following basic event probabilities are modified in this cutsets file to fail the five systems listed above:

ALL-IND-FAIL
ATW-MAN04
ATW-MAN04C
ATW-MAN06
CLP-UNAVAILABLE
CVBPM01BTM
CVMOD01
CVMOD02
CVMOD03
CVMOD04
CVMOD05
CVMOD07
CVN-MAN00
CVN-MAN02
CVNMV090GC
CVNMV091GC
CVX-PM-ER
DAS
FWACV012GO
FWBCV012GO
FWMOD013A
FWMOD013B
FWMOD03A
FWMOD03B
FWX-MV2-GO
FWX-PM2-ER
FWX-PM2-FS
MDAS
REC-MANDAS
REC-MANDASC

RHN-MAN01
RN11MOD3
RN22MOD4
RN23MOD5
RN55MOD1
RNAMOD06
RNAMOD09
RNBMOD07
RNBMOD10
RNNCV013GO
RNNCV056GO
RNX-CV-GO
RNX-KV-GO
RNX-KV1-GO
RNX-PM-ER
RNX-PM-FS
SGX-AV-FA
SWN-MAN03
ZO1DG001TM
ZO1MOD01
ZO1MOD03
ZO1MOD04
ZO2DG002TM
ZO2MOD01
ZO2MOD04
ZOX-BL-ES
ZOX-DG-DR
ZOX-DG-DS
ZOX-PD-ER
ZOX-PD-ES
FSMOD255A
RNAEP01ASA
RNAEP01BSA
RNAEP022SA
RNBEP011SA
RNDEP023SA
SGX-CV-GO
SGX-MV-RP

The failure probabilities of these basic events are set to 1.0 and the drop option of SEN.EXE code is used to process the CDF cutset uncertainty.

Results

The calculations are performed on a personal computer using the SEN code for sensitivity analysis. The input file is taken from the AP1000 PRA CDF analysis. This file is CMTOT.OUT. The results of the sensitivity analysis are given in Tables 50-20 and 50-21.

Table 50-20 shows the contribution of the initiating events when no credit is taken for the above standby systems.

The output file contains 7269 cutsets. The top 50 of these cutsets are shown in Table 50-23.

This sensitivity analysis estimates that the CDF increases from 2.41E-07/year to 7.41E-06/year when no credit is taken for the standby systems CVS, SFS, RNS, DAS, and DGs.

These results are limited by the way the sensitivity analysis is performed. Namely, if a CDF cutset does not appear in the CMTOT.OUT file due to cutoff probability, then it is resurrected in the present analysis.

50.6 Results

Importance and sensitivity analyses are performed on the core damage model for internal initiating events at power. The results for individual cases have been discussed in their respective sections, whenever needed.

The major conclusions of the sensitivity analyses are:

- If no credit is taken for operator actions, the plant core damage frequency is 1.37E-05/year (case 29). This compares well with the risk of existing plants where credit is taken for operator actions.
- For system importances the most important systems for core damage prevention are PMS, Class 1E DC, ADS, and IRWST. None of the non-safety systems have high system importance.
- The common cause failure basic events are important individually, as well as a group for plant core damage frequency. This is expected for a plant with highly redundant safety systems.
- There are no operator actions that provide a significant risk decrease if made to be more reliable.
- When no credit is taken for standby systems CVS, SFS, RNS, DAS, and DGs, the plant core damage frequency increased by a factor of 31. While this is a significant increase, the plant core damage frequency is still very low (7.41E-06/year).

Table 50-1

CORE DAMAGE FOR AT-POWER EVENTS CONTRIBUTION OF INITIATING EVENTS TO PLANT CORE DAMAGE FREQUENCY

	Initiating Event Category	Percent Contribution	Number of Cutsets	CDF Contribution	IEV Frequency
1	IEV-SI-LB	39.43	1160	9.50E-08	2.12E-04
2	IEV-LLOCA	18.66	286	4.50E-08	5.00E-06
3	IEV-SPADS	12.28	1078	2.96E-08	5.40E-05
4	IEV-SLOCA	7.5	1638	1.81E-08	5.00E-04
5	IEV-MLOCA	6.69	1681	1.61E-08	4.36E-04
6	IEV-RV-RP	4.15	1	1.00E-08	1.00E-08
7	IEV-SGTR	2.82	3076	6.79E-09	3.88E-03
8	IEV-CMTLB	1.53	987	3.68E-09	9.31E-05
9	IEV-ATWS	1.5	136	3.61E-09	*4.81E-01
10	IEV-TRANS	1.28	1500	3.08E-09	1.40E+00
11	IEV-RCSLK	0.71	1526	1.71E-09	6.20E-03
12	IEV-POWEX	0.69	701	1.66E-09	4.50E-03
13	IEV-LCOND	0.52	858	1.24E-09	1.12E-01
14	IEV-LOSP	0.4	530	9.58E-10	1.20E-01
15	IEV-LMFW	0.36	1334	8.70E-10	3.35E-01
16	IEV-ATW-T	0.3	13	7.12E-10	*1.17E+00
17	IEV-LCAS	0.28	417	6.72E-10	3.48E-02
18	IEV-SLB-V	0.25	305	6.06E-10	1.21E-03
19	IEV-PRSTR	0.21	317	5.02E-10	1.34E-04
20	IEV-LMFW1	0.19	763	4.53E-10	1.92E-01
21	IEV-LCCW	0.13	690	3.23E-10	1.44E-01
22	IEV-SLB-U	0.05	160	1.31E-10	3.72E-04
23	IEV-ATW-S	0.05	55	1.11E-10	*1.48E-02
24	IEV-ISLOC	0.02	1	5.00E-11	5.00E-11
25	IEV-LRCS	0.01	143	3.52E-11	1.80E-02
26	IEV-SLB-D	0	18	9.15E-12	5.96E-04
	TOTALS	100	19374	2.41E-07	*2.37

Note:

* The ATWS precursor frequencies are not included in the total initiating event frequency, since they are already accounted for in the other categories.

Table 50-2

CORE DAMAGE FOR AT-POWER EVENTS CONDITIONAL CORE DAMAGE PROBABILITY OF INITIATING EVENTS

	Initiating Event Category	CDF Contribution	Initiating Event Frequency	Conditional CDF
1	IEV-SI-LB	9.50E-08	2.12E-04	4 48E-04
2	IEV-LLOCA	4.50E-08	5.00E-06	8.99E-03
3	IEV-SPADS	2.96E-08	5.40E-05	5.48E-04
4	IEV-SLOCA	1.81E-08	5.00E-04	3.62E-05
5	IEV-MLOCA	1.61E-08	4.36E-04	3.70E-05
6	IEV-RV-RP	1.00E-08	1.00E-08	1.00E+00
7	IEV-SGTR	6.79E-09	3.88E-03	1.75E-06
8	IEV-CMTLB	3.68E-09	9.31E-05	3.95E-05
9	IEV-ATWS	3.61E-09	4.81E-01	7.49E-09
10	IEV-TRANS	3.08E-09	1.40E+00	2.20E-09
11	IEV-RCSLK	1.71E-09	6.20E-03	2.75E-07
12	IEV-POWEX	1.66E-09	4.50E-03	3.69E-07
13	IEV-LCOND	1.24E-09	1.12E-01	1.11E-08
14	IEV-LOSP	9.58E-10	1.20E-01	7.98E-09
15	IEV-LMFW	8.70E-10	3.35E-01	2.60E-09
16	IEV-ATW-T	7.12E-10	1.17E+00	6.09E-10
17	IEV-LCAS	6.72E-10	3.48E-02	1.93E-08
18	IEV-SLB-V	6.06E-10	1.21E-03	5.01E-07
19	IEV-PRSTR	5.02E-10	1.34E-04	3.74E-06
20	IEV-LMFW1	4.53E-10	1.92E-01	2.36E-09
21	IEV-LCCW	3.23E-10	1.44E-01	2.24E-09
22	IEV-SLB-U	1.31E-10	3.72E-04	3.51E-07
23	IEV-ATW-S	1.11E-10	1.48E-02	7.48E-09
24	IEV-ISLOC	5.00E-11	5.00E-11	1.00E+00
25	IEV-LRCS	3.52E-11	1.80E-02	1.96E-09
26	IEV-SLB-D	9.15E-12	5.96E-04	1.54E-08
	TOTALS	2.41E-07		

Table 50-3 (Sheet 1 of 5)

AP1000 PRA CORE DAMAGE FOR AT-POWER EVENTS ACCIDENT SEQUENCE IMPORTANCES

	Sequence Probability	Percent Contrib	Sequence Description	Sequence Identifier
1	6.88E-08	28.52	SAFETY INJECTION LINE BREAK INITIATING EVENT OCCURS	IEV-SI-LB
			RCPS TRIP AND CMT INJECTION IS SUCCESSFUL – 1 OF 2 CMT TRAINS	DEL-XCM1A
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADM
			FAILURE OF ONE OF ONE IRWST INJECTION LINE	SYS-IW1A
2	4.26E-08	17.66	LARGE LOCA INITIATING EVENT OCCURS	IEV-LLOCA
			ANY ONE OF TWO ACCUMULATOR TRAINS FAIL	SYS-ACBOTH
3	2.13E-08	8.82	SPURIOUS ADS INITIATING EVENT OCCURS	IEV-SPADS
			SUCCESS OF 1/2 OR 2/2 ACCUMULATORS	DEL-AC2AB
			FAILURE OF ADS OR CMT	SYS-XADMA
4	1.98E-08	8.23	SAFETY INJECTION LINE BREAK INITIATING EVENT OCCURS	IEV-SI-LB
			RCPS TRIP AND CM T INJECTION IS SUCCESSFUL – 1 OF 2 CMT TRAINS	DEL-XCM1A
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADM
5	1.00E-08	4.15	REACTOR VESSEL RUPTURE INITIATING EVENT OCCURS	IEV-RV-RP
6	8.44E-09	3.5	SMALL LOCA INITIATING EVENT OCCURS	IEV-SLOCA
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2SL
			SUCCESS OF PASSIVE RHR SYSTEM	DEL-PRL
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADS
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
			SUCCESS OF TWO OF TWO IRWST INJECTION LINES	DEL-IW2AB
			SUCCESS OF CIS & PRE-EXISTING CONTAINMENT OPENING	DEL-XCICPO
			FAILURE OF RECIRCULATION	SYS-RECIRC

Table 50-3 (Sheet 2 of 5)

AP1000 PRA CORE DAMAGE FOR AT-POWER EVENTS ACCIDENT SEQUENCE IMPORTANCES

	Sequence Probability	Percent Contrib	Sequence Description	Sequence Identifier
7	7.35E-09	3.05	MEDIUM LOCA INITIATING EVENT OCCURS	IEV-MLOCA
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2NL
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADM
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
			SUCCESS OF TWO OF TWO IRWST INJECTION LINES	DEL-IW2AB
			SUCCESS OF CIS & PRE-EXISTING CONTAINMENT OPENING	DEL-XCICPO
			FAILURE OF RECIRCULATION	SYS-RECIRC
8	5.11E-09	2.12	SMALL LOCA INITIATING EVENT OCCURS	IEV-SLOCA
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2SL
			SUCCESS OF PASSIVE RHR SYSTEM	DEL-PRL
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADS
			SUCCESS OF PARTIAL ADS DEPRESSURIZATION	DEL-ADV
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
9	4.46E-09	1.85	MEDIUM LOCA INITIATING EVENT OCCURS	IEV-MLOCA
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2NL
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADM
			SUCCESS OF PARTIAL ADS DEPRESSURIZATION	DEL-ADU
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
10	3.72E-09	1.54	SPURIOUS ADS INITIATING EVENT OCCURS	IEV-SPADS
			FAILURE OF 2/2 ACCUMULATORS	SYS-AC2AB
11	3.67E-09	1.52	SPURIOUS ADS INITIATING EVENT OCCURS	IEV-SPADS
			SUCCESS OF 1/2 OR 2/2 ACCUMULATORS	DEL-AC2AB
			SUCCESS OF ADS & CMT	DEL-XADMA
			FAILURE OF IRW OR CMT	SYS-XIW2AB

Table 50-3 (Sheet 3 of 5)

AP1000 PRA CORE DAMAGE FOR AT-POWER EVENTS ACCIDENT SEQUENCE IMPORTANCES

	Sequence Probability	Percent Contrib	Sequence Description	Sequence Identifier
12	3.57E-09	1.48	SAFETY INJECTION LINE BREAK INITIATING EVENT OCCURS	IEV-SI-LB
			RCPS TRIP AND CMT INJECTION IS SUCCESSFUL – 1 OF 2 CMT TRAINS	DEL-XCM1A
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADM
			IRWST INJECTION IS SUCCESSFUL – 1 OF 1 TRAINS	DEL-IW1A
			SUCCESS OF CIS & PRE-EXISTING CONTAINMENT OPENING	DEL-XCICPO
			FAILURE OF RECIRCULATION	SYS-RECIRC
13	3.55E-09	1.47	SGTR EVENT SEQUENCE CONTINUES	SYS-SGTRC
			FAILURE OF CMT OR RCP TRIP	SYS-XCM2SL
			SUCCESS OF PASSIVE RHR SYSTEM	DEL-PRL
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADT
			FAILURE OF PARTIAL ADS DEPRESSURIZATION	SYS-ADZ
14	3.31E-09	1.37	ATWS PRECURSOR WITH NO MFW EVENT SEQUENCE CONTINUES	SYS-ATWSC
			SUCCESS OF SFW OR PRHR SYSTEM	DEL-XSRT
			SUCCESS OF MANUAL REACTOR TRIP	DEL-RTSTP
			FAILURE OF MANUAL BORATION BY CVS	SYS-CSBOR1
			FAILURE OF CMT OR RCP TRIP	SYS-XCM2AB
15	3.30E-09	1.37	SMALL LOCA INITIATING EVENT OCCURS	IEV-SLOCA
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2SL
			SUCCESS OF PASSIVE RHR SYSTEM	DEL-PRL
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADS
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
			FAILURE OF TWO OF TWO IRWST INJECTION LINES	SYS-IW2AB

Table 50-3 (Sheet 4 of 5)

AP1000 PRA CORE DAMAGE FOR AT-POWER EVENTS ACCIDENT SEQUENCE IMPORTANCES

	Sequence Probability	Percent Contrib	Sequence Description	Sequence Identifier
16	2.88E-09	1.19	MEDIUM LOCA INITIATING EVENT OCCURS	IEV-MLOCA
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2NL
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADM
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
			FAILURE OF TWO OF TWO IRWST INJECTION LINES	SYS-IW2AB
17	2.19E-09	0.91	SGTR EVENT SEQUENCE CONTINUES	SYS-SGTRC
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2SL
			SUCCESS OF PASSIVE RHR SYSTEM	DEL-PRL
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADS
			FAILURE OF PARTIAL ADS DEPRESSURIZATION	SYS-ADV
18	1.97E-09	0.82	LARGE LOCA INITIATING EVENT OCCURS	IEV-LLOCA
			ACCUMULATOR INJECTION IS SUCCESSFUL – 2 OF 2 TRAINS	DEL-ACBOTH
			FAILURE OF ADS OR CMT	SYS-XADMA
19	1.57E-09	0.65	CMT LINE BREAK INITIATING EVENT OCCURS	IEV-CMTLB
			RCPS TRIP AND CMT INJECTION IS SUCCESSFUL – 1 OF 2 CMT TRAINS	DEL-XCM1A
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADM
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
			SUCCESS OF TWO OF TWO IRWST INJECTION LINES	DEL-IW2AB
			SUCCESS OF CIS & PRE-EXISTING CONTAINMENT OPENING	DEL-XCICPO
			FAILURE OF RECIRCULATION	SYS-RECIRC

Table 50-3 (Sheet 5 of 5)

AP1000 PRA CORE DAMAGE FOR AT-POWER EVENTS ACCIDENT SEQUENCE IMPORTANCES

	Sequence Probability	Percent Contrib	Sequence Description	Sequence Identifier
20	1.41E-09	0.59	TRANSIENT WITH MFW INITIATING EVENT OCCURS	IEV-TRANS
			FAILURE OF MFW & SFW & PRHR SYSTEMS	SYS-XSTW
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2AB
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADA
			FAILURE OF PARTIAL ADS DEPRESSURIZATION	SYS-AD1A
21	1.29E-09	0.54	SAFETY INJECTION LINE BREAK INITIATING EVENT OCCURS	IEV-SI-LB
			CMT INJECTION (1 OF 1 TRAINS) OR RCP TRIP FAILS	SYS-XCM1A
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADQ
			FAILURE OF 1/1 ACCUMULATOR	SYS-AC1A
22	1.13E-09	0.47	CONSEQUENTIAL SGTR EVENT OCCURS	SYS-IECSGT
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2SL
			SUCCESS OF PASSIVE RHR SYSTEM	DEL-PRL
			SUCCESS OF FULL ADS DEPRESSURIZATION	DEL-ADS
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR
			SUCCESS OF TWO OF TWO IRWST INJECTION LINES	DEL-IW2AB
			SUCCESS OF CIS & PRE-EXISTING CONTAINMENT OPENING	DEL-XCICPO
			FAILURE OF RECIRCULATION	SYS-RECIRC
23	9.98E-10	0.41	SAFETY INJECTION LINE BREAK INITIATING EVENT OCCURS	IEV-SI-LB
			CMT INJECTION (1 OF 1 TRAINS) OR RCP TRIP FAILS	SYS-XCM1A
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADQ
24	9.71E-10	0.4	CONSEQUENTIAL SGTR EVENT OCCURS	SYS-IECSGT
			SUCCESS OF CMT & RCP TRIP	DEL-XCM2SL
			SUCCESS OF PASSIVE RHR SYSTEM	DEL-PRL
			FAILURE OF FULL ADS DEPRESSURIZATION	SYS-ADS
			SUCCESS OF PARTIAL ADS DEPRESSURIZATION	DEL-ADV
			FAILURE OF NORMAL RHR IN INJECTION MODE	SYS-RNR

Table 50-4

CORE DAMAGE FOR AT-POWER EVENTS END STATE IMPORTANCES

End State	Frequency	Percent Contribution
3BE	8.06E-08	33.4%
3D	5.76E-08	23.9%
3BR	4.64E-08	19.2%
3BL	2.40E-08	9.9%
3C	1.00E-08	4.1%
6	9.52E-09	4.0%
1A	5.06E-09	2.1%
3A	4.43E-09	1.8%
1P	3.55E-09	1.5%
3E	8.27E-12	0.0%
5E	4.13E-12	0.0%
Total	2.41E-07	100.0%

Table 50-5 (Sheet 1 of 2)

COMMON CAUSE IMPORTANCES – RISK DECREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Reduction Worth	Risk Decrease Percent
5	ADX-EV-SA2	CCF OF 2 SQUIB VALVES TO OPERATE	5.90E-05	1.11E+00	9.55
7	REX-FL-GP	CCF PLUGGING OF BOTH RECIRC LINES DUE TO SUMP SCREENS	1.20E-05	1.08E+00	7.35
9	ADX-EV-SA	CCF OF 4TH STAGE ADS SQUIB VALVES TO OPERATE	3.00E-05	1.05E+00	4.92
10	IWX-CV-AO	CCF OF 4 GRAVITY INJECTION CVs	3.00E-05	1.05E+00	4.89
11	IWX-EV-SA	CCF OF 4 GRAVITY INJECTION & 2 RECIRCULATION SQUIB VALVES	2.60E-05	1.05E+00	4.31
18	IWX-XMTR	CCF OF IRWST LEVEL TRANSMITTERS	4.78E-04	1.03E+00	2.97
20	CCX-INPUT-LOGIC	CCF OF ESF INPUT LOGIC (HARDWARE)	1.03E-04	1.03E+00	2.84
22	RPX-CB-GO	CCF TO OPEN OF 4.16 KVAC CIRCUIT BREAKERS	4.20E-04	1.02E+00	2.13
23	CCX-AV-LA	CCF OF 4 AOVS TO OPEN	6.20E-05	1.02E+00	1.75
24	CCX-XMTR	CCF OF PRESSURE TRANSMITTERS	4.78E-04	1 02E+00	1.74
25	CCX-XMTR195	CCF OF PZR LEVEL SENSORS	4.78E-04	1.02E+00	1.68
32	ADX-MV3-GO	CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	1.01E+00	1.39
33	CMX-CV-GO	CCF OF 4 CHECK VALVES TO OPEN	5.10E-05	1.01E+00	1.38
35	ACX-CV-GO	CCF OF 2 ACCUMULATOR CHECK VALVES	5.10E-05	1.01E+00	1.26
41	CMX-VS-FA	CCF OF CMT LEVEL SWITCHES	3.84E-05	1.01E+00	1.04
44	CCX-SFTW	CCF SOFTWARE - ALL CARDS	1.20E-06	1.01E+00	0.95
45	IWX-FL-GP	CCF OF STRAINERS IN IRWST TANK	1.20E-05	1.01E+00	0 9
46	CCX-PMXMOD1-SW	CCF OF PMS ESF OUTPUT LOGIC SOFTWARE	1.10E-05	1.01E+00	0 88
54	PXX-AV-LA1	FAILURE OF IRWST GUTTER DUE TO CCF OF AOVs	9.60E-05	1.01E+00	0 74
55	PXX-AV-LA	FAILURE OF PRHR DUE TO CCF OF AOVs	9.60E-05	1.01E+00	0.74

Table 50-5 (Sheet 2 of 2)

COMMON CAUSE IMPORTANCES – RISK DECREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Reduction Worth	Risk Decrease Percent
56	CCX-BY-PN	CCF OF THE BATTERIES IDSA-DB-1A/1B	4 70E-05	1 01E+00	0.74
62	CCX-EP-SAM	CCF OF EPO BOARDS IN PMS (POWER INTERFACE OUTPUT BOARD)	8 62E-06	1.01E+00	0 69
69	IWX-EV1-SA	CCF OF 2 GRAVITY INJECTION SQUIB VALVES IN 1/1 LINES TO OPEN	5.80E-06	1.01E+00	0.51

CCF basic events above 0.5% risk decrease contribution are given above.

Note:

a. The relative rank numbers denote the ranking of the component failure in the overall core damage quantification importance ranking, including operator actions and initiating events.

Table 50-6 (Sheet 1 of 3)

COMMON CAUSE IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
4	CCX-SFTW	CCF SOFTWARE - ALL CARDS	1.20E-06	7.91E+03	7.91E+05
5	REX-FL-GP	CCF PLUGGING OF BOTH RECIRC LINES DUE TO SUMP SCREENS	1.20E-05	6.12E+03	6.12E+05
8	IWX-EV-SA	CCF OF 4 GRAVITY INJECTION & 2 RECIRCULATION SQUIB VALVES	2.60E-05	1.66E+03	1.66E+05
9	ADX-EV-SA	CCF OF 4TH STAGE ADS SQUIB VALVES TO OPERATE	3.00E-05	1.64E+03	1.64E+05
10	IWX-CV-AO	CCF OF 4 GRAVITY INJECTION CVs	3.00E-05	1.63E+03	1.63E+05
11	ADX-EV-SA2	CCF OF 2 SQUIB VALVES TO OPERATE	5.90E-05	1.62E+03	1.62E+05
13	IWX-EV1-SA	CCF OF 2 GRAVITY INJECTION SQUIB VALVES IN 1/1 LINES TO OPEN	5.80E-06	8.81E+02	8.80E+04
14	IWX-CV1-AO	CCF OF GRAVITY INJECTION CVs IN 1/1 LINES TO OPEN	5.40E-07	8.77E+02	8.76E+04
15	CCX-PMXMOD1-SW	CCF OF PMS ESF OUTPUT LOGIC SOFTWARE	1.10E-05	8.01E+02	8.00E+04
16	CCX-EP-SAM	CCF OF EPO BOARDS IN PMS (POWER INTERFACE OUTPUT BOARD)	8.62E-06	7.98E+02	7.97E+04
17	IWX-FL-GP	CCF OF STRAINERS IN IRWST TANK	1.20E-05	7.47E+02	7.46E+04
18	CCX-AV-LA	CCF OF 4 AOVS TO OPEN	6.20E-05	2.83E+02	2.82E+04
19	CCX-INPUT-LOGIC	CCF OF ESF INPUT LOGIC (HARDWARE)	1.03E-04	2.76E+02	2.75E+04
20	CMX-VS-FA	CCF OF CMT LEVEL SWITCHES	3.84E-05	2.73E+02	2.72E+04
21	CMX-CV-GO	CCF OF 4 CHECK VALVES TO OPEN	5.10E-05	2.73E+02	2.72E+04
22	CCX-IN-LOGIC-SW	CCF OF ESF INPUT LOGIC SOFTWARE	1.10E-05	2.61E+02	2.60E+04
23	CCX-PMXMOD2-SW	CCF OF PMS ESF ACTUATION LOGIC SOFTWARE	1.10E-05	2.61E+02	2.60E+04
24	CMX-TK-AF	CCF OF TANKS	1.20E-07	2.55E+02	2.54E+04
25	ACX-CV-GO	CCF OF 2 ACCUMULATOR CHECK VALVES	5.10E-05	2.48E+02	2.47E+04

Table 50-6 (Sheet 2 of 3)

COMMON CAUSE IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
26	ACX-TK-AF	CCF FAILURE OF ACCUMULATOR TANKS	1.20E-07	2.47E+02	2.46E+04
28	CCX-BY-PN	CCF OF THE BATTERIES IDSA-DB-1A/1B	4.70E-05	1.58E+02	1.57E+04
31	PXX-AV-LA	FAILURE OF PRHR DUE TO CCF OF AOVs	9.60E-05	7.82E+01	7.72E+03
32	PXX-AV-LA1	FAILURE OF IRWST GUTTER DUE TO CCF OF AOVs	9.60E-05	7.82E+01	7.72E+03
35	IWX-XMTR	CCF OF IRWST LEVEL TRANSMITTERS	4.78E-04	6.30E+01	6.20E+03
37	ADX-MV3-GO	CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	4.39E+01	4.29E+03
38	CCX-XMTR	CCF OF PRESSURE TRANSMITTERS	4.78E-04	3.73E+01	3.63E+03
39	CCX-XMTR195	CCF OF PZR LEVEL SENSORS	4.78E-04	3.61E+01	3.51E+03
51	RCX-RB-FA	CCF OF REACTOR TRIP BREAKERS	8.10E-06	2.00E+01	1.90E+03
54	CCX-PMXMOD4-SW	CCF OF SOFTWARE – MUX LOGIC GROUPS (CCX-P##MOD4-SW)	1.10E-05	1.54E+01	1.44E+03
61	CMX-AV-LA	CCF (DELTA) FOR 2 AOVS TO OPEN	9.60E-05	1.04E+01	9.43E+02
71	CCX-IV-XR	CCF OF THE INVERTER	2.40E-05	7.92E+00	6.92E+02
72	CCX-EP-SA	CCF OF THE POWER INTERFACE OUTPUT BOARD (CCX-EP-SA)	8.62E-06	6.85E+00	5.85E+02
76	CCX-PMS-HARDWARE	PMS REACTOR TRIP SYSTEM HARDWARE CCF	7.89E-05	5.89E+00	4.89E+02
88	CCX-TT-UF	CCF OF TEMPERATURE TRANSMITTERS (CCX-TT-UF)	1.17E-04	4.89E+00	3.89E+02
92	CCX-TRNSM	CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	4.37E+00	3.37E+02
97	CCX-VS-FA	CCF OF CMT LEVEL SWITCHES (CMX-VS-FA)	3.84E-05	3.82E+00	2.82E+02
111	CIX-AV-LA	CCF OF ALL CI AOVS TO CLOSE	7.70E-04	2.30E+00	1.30E+02

Table 50-6 (Sheet 3 of 3)

COMMON CAUSE IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
112	CCX-XMTR1	CCF OF PRESSURE TRANSMITTERS FOLLOWING ACCIDENT (CCX-XMTR1)	4.78E-04	2.30E+00	1.30E+02
116	CCX-PMDMOD1	CCF OF OUTPUT LOGIC I/Os (CCX-P##MOD1)	1.41E-04	2.11E+00	1.11E+02
119	CCX-PMD030	CCF OF THE LOGIC GROUP PROCESSING (CCX-###03)	9.69E-05	2.10E+00	1.10E+02
121	ED1MOD113	FIXED COMPONENTS FAILURE	3.17E-04	2.04E+00	1.04E+02
122	ED1MOD11	FIXED COMPONENTS FAILURE	3.17E-04	2.04E+00	1.04E+02
123	CCX-BC-SA	CCF OF THE BATTERY CHARGERS	8.40E-06	2.02E+00	1.02E+02
124	CCX-PM-ER	DUE TO CCF TO RUN OF THE MOTOR PUMPS	1.40E-05	2.01E+00	1.01E+02

CCF basic events that increase the core damage frequency more than a factor of 2 (when they fail) are given above.

Note:

a. The relative rank numbers denote the ranking of the component failure in the overall core damage quantification importance ranking, including operator actions and initiating events.

Table 50-7 (Sheet 1 of 2)

HUMAN ERROR RISK IMPORTANCES – RISK DECREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Reduction Worth	Risk Reduction Percent
17	REC-MANDASC	COND. PROB. OF REC-MANDAS (FAILURE OF MANUAL DAS ACT.)	5.06E-01	1.03E+00	3.18
19	REN-MAN04	OPER. FAILS TO ACT. SUMP RECIRC GIVEN IRWST LEVEL SIGNAL FAILURE	1.00E-02	1.03E+00	2.92
29	ATW-MAN03	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA PMS	5.20E-02	1.02E+00	1.53
31	ATW-MAN04C	COND. PROB. OF ATW-MAN04 (OPER. FAILS TO TRIP REACTOR)	5.26E-01	1.02E+00	1.46
42	CIB-MAN00	COGNITIVE OPERATOR ERROR	1.84E-03	1.01E+00	0.98
43	ADN-MAN01	OPERATOR FAILS TO FULFILL MANUAL ACTUATION OF ADS	3.02E-03	1.01E+00	0.98
48	ADN-MAN01C	COND. PROB. OF ADN-MAN01(OPER. FAILS TO ACT. ADS)	5.00E-01	1.01E+00	0.83
52	REC-MANDAS	FAILURE OF MANUAL DAS ACT.	1.16E-02	1.01E+00	0.76
64	LPM-MAN01C	COND. PROB OF LPM-MAN01	5.00E-01	1.01E+00	0.63
65	LPM-MAN02	OPER. FAILS TO RECOG. THE NEED FOR RCS DEPRESS. DURING MLOCA	3.30E-03	1.01E+00	0.62
71	ADF-MAN01	OPERATOR FAILS TO FULFILL MANUAL ACTUATION OF ADS	5.00E-01	1.00E+00	0.42
80	CVN-MAN00	FAILURE TO ALIGN CVCS IN AUX. SPRAY MODE	3.10E-03	1.00E+00	0.34
83	CIB-MAN01	OPERATOR ERROR TO CLOSE VALVES ON RUPTURED SG	1.34E-03	1.00E+00	0.31
85	ATW-MAN05	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA PMS	5.20E-03	1.00E+00	0.3
86	ATW-MAN06C	COND. PROB. OF ATW-MAN06 (OPER. FAILS TO TRIP REACTOR VIA DAS)	5.00E-01	1.00E+00	0.29
93	RHN-MAN01	OPERATOR FAILS TO ALIGN AND ACTUATE THE RNS	2.90E-03	1.00E+00	0.22
94	REG-MAN00	MANUALLY REGULATE FLOW TO SG "A"	2.04E-01	1.00E+00	0.22

Table 50-7 (Sheet 2 of 2)

HUMAN ERROR RISK IMPORTANCES – RISK DECREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Reduction Worth	Risk Reduction Percent
102	LPM-MAN01	OPERATOR ERROR	1.34E-03	1.00E+00	0.17
129	OTH-SDMAN	OPERATOR FAILS TO SHUT DOWN REACTOR DURING ACCIDENT	7.70E-04	1.00E+00	0.07
170	SWN-MAN03	FAILURE OF OPERATOR TO REFILL BASIN	4.00E-02	1.00E+00	0.02
177	VWN-MAN01	OPERATOR FAILS TO RECOGNIZE NEED AND FAILS TO ALIGN STANDBY CHILLER DURING A LOCA	5.16E-03	1.00E+00	0.02
198	ATW-MAN01C	COND. PROB. OF ATW-MAN01 (OPER. FAILS TO STEP-IN CONTROL ROD	5.17E-01	1.00E+00	0.01
261	ATW-MAN04	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA DAS	5.20E-02	1.00E+00	0.01
323	DUMP-MAN01	FAILURE TO CONTROL DUMP VALVES FOLLOWING AN STGR	1.32E-03	1.00E+00	0
356	CVN-MAN03	OPERATOR FAILURE TO ACTUATE PUMP "B" IF PUMP "A" FAILED	1.07E-03	1.00E+00	0
431	HPM-MAN01	FAILURE TO RECOGNIZE NEED FOR HIGH PRESS. HEAT REMOVAL	5.02E-04	1.00E+00	0
434	PRI-MAN01	OPERATOR ERROR TO ISOLATE PRHR	4.96E-04	1.00E+00	0
475	ATW-MAN01	OPERATOR FAILS TO STEP IN THE CONTROL RODS	3.30E-02	1.00E+00	0
582	CVN-MAN02	FAILURE TO MANUALLY ALIGN CVCS IN BORATION MODE	1.58E-03	1.00E+00	0
599	ATW-MAN06	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA DAS	5.20E-03	1.00E+00	0

Note:

a. The relative rank numbers denote the ranking of the human error in the overall core damage quantification importance ranking, including component failures and initiating events, as shown in Chapter 33.

Table 50-8 (Sheet 1 of 2)

HUMAN ERROR RISK IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
73	CIB-MAN00	COGNITIVE OPERATOR ERROR	1.84E-03	6.34E+00	5.34E+02
93	ADN-MAN01	OPERATOR FAILS TO FULFILL MANUAL ACTUATION OF ADS	3.02E-03	4.25E+00	3.25E+02
95	REN-MAN04	OPER. FAILS TO ACT. SUMP RECIRC GIVEN IRWST LEVEL SIGNAL FAILURE	1.00E-02	3.89E+00	2.89E+02
103	CIB-MAN01	OPERATOR ERROR TO CLOSE VALVES ON RUPTURED SG	1.34E-03	3.30E+00	2.30E+02
105	LPM-MAN02	OPER. FAILS TO RECOG. THE NEED FOR RCS DEPRESS. DURING MLOCA	3.30E-03	2.89E+00	1.89E+02
113	LPM-MAN01	OPERATOR ERROR	1.34E-03	2.28E+00	1.28E+02
117	CVN-MAN00	FAILURE TO ALIGN CVCS IN AUX. SPRAY MODE	3.10E-03	2.11E+00	1.11E+02
129	OTH-SDMAN	OPERATOR FAILS TO SHUT DOWN REACTOR DURING ACCIDENT	7.70E-04	1.85E+00	8.45E+01
135	RHN-MAN01	OPERATOR FAILS TO ALIGN AND ACTUATE THE RNS	2.90E-03	1.77E+00	7.71E+01
174	REC-MANDAS	FAILURE OF MANUAL DAS ACT.	1.16E-02	1.65E+00	6.46E+01
180	ATW-MAN05	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA PMS	5.20E-03	1.57E+00	5.65E+01
208	ATW-MAN03	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA PMS	5.20E-02	1.28E+00	2.78E+01
313	VWN-MAN01	OPERATOR FAILS TO RECOGNIZE NEED AND FAILS TO ALIGN STANDBY CHILLER DURING A LOCA	5.16E-03	1.04E+00	3.70E+00
321	REC-MANDASC	COND. PROB. OF REC-MANDAS (FAILURE OF MANUAL DAS ACT.)	5.06E-01	1.03E+00	3.11E+00
363	DUMP-MAN01	FAILURE TO CONTROL DUMP VALVES FOLLOWING AN SGTR	1.32E-03	1.02E+00	2.05E+00
383	CVN-MAN03	OPERATOR FAILURE TO ACTUATE PUMP "B" IF PUMP "A" FAILED	1.07E-03	1.02E+00	1.69E+00

Table 50-8 (Sheet 2 of 2)

HUMAN ERROR RISK IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
411	ATW-MAN04C	COND. PROB. OF ATW-MAN04 (OPER. FAILS TO TRIP REACTOR)	5.26E-01	1.01E+00	1.32E+00
428	HPM-MAN01	FAILURE TO RECOGNIZE NEED FOR HIGH PRESS. HEAT REMOVAL	5.02E-04	1.01E+00	9.53E-01
432	PRI-MAN01	OPERATOR ERROR TO ISOLATE PRHR	4.96E-04	1.01E+00	9.34E-01
433	REG-MAN00	MANUALLY REGULATE FLOW TO SG "A"	2.04E-01	1.01E+00	8.46E-01
434	ADN-MAN01C	COND. PROB. OF ADN-MAN01(OPER. FAILS TO ACT. ADS)	5.00E-01	1.01E+00	8.29E-01
446	LPM-MAN01C	COND. PROB OF LPM-MAN01	5.00E-01	1.01E+00	6.32E-01
452	SWN-MAN03	FAILURE OF OPERATOR TO REFILL BASIN	4.00E-02	1.01E+00	5.31E-01
463	ADF-MAN01	OPERATOR FAILS TO FULFILL MANUAL ACTUATION OF ADS	5.00E-01	1.00E+00	4.21E-01
488	ATW-MAN06C	COND. PROB. OF ATW-MAN06 (OPER. FAILS TO TRIP REACTOR VIA DAS)	5.00E-01	1.00E+00	2.89E-01
522	ATW-MAN04	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA DAS	5.20E-02	1.00E+00	1.17E-01
580	ATW-MAN01C	COND. PROB. OF ATW-MAN01 (OPER. FAILS TO STEP-IN CONTROL ROD)	5.17E-01	1.00E+00	1.19E-02
581	ATW-MAN01	OPERATOR FAILS TO STEP IN THE CONTROL RODS	3.30E-02	1.00E+00	7.23E-03
583	CVN-MAN02	FAILURE TO MANUALLY ALIGN CVCS IN BORATION MODE	1.58E-03	1.00E+00	6.51E-03
594	ATW-MAN06	OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA DAS	5.20E-03	1.00E+00	8.97E-04

Note:

a. The relative rank numbers denote the ranking of the human error in the overall core damage quantification importance ranking, including component failures and initiating events, as given in Chapter 33.

Table 50-9 (Sheet 1 of 2)

COMPONENT IMPORTANCES – RISK DECREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Reduction Worth	Risk Reduction Percent
2	IWA-PLUG	IWRST DISCHARGE LINE "A" STRAINER PLUGGED	2.40E-04	1.27E+00	21.13
13	ACACV028GO	CHECK VALVE 028A FAILS TO OPEN	1.75E-03	1.04E+00	4.02
14	ACACV029GO	CHECK VALVE 029A FAILS TO OPEN	1.75E-03	1.04E+00	4.02
15	ACBCV029GO	CHECK VALVE 029B FAILS TO OPEN	1.75E-03	1.04E+00	3.8
16	ACBCV028GO	CHECK VALVE 028B FAILS TO OPEN	1.75E-03	1.04E+00	3.8
26	ACAOR001SP	FLOW TUNING ORIFICE PLUGS	7.27E-04	1.02E+00	1.67
27	ACBOR001SP	FLOW TUNING ORIFICE PLUGS	7.27E-04	1.02E+00	1.58
36	RN11MOD3	HARDWARE FAILURE OF ISOLATION MOV 011	1.41E-02	1.01E+00	1.1
37	RN22MOD4	HARDWARE FAILS TO OPEN MOV V022/CB FTC/RELAY FTC	1.41E-02	1.01E+00	1.1
38	RN23MOD5	HARDWARE FAILS TO OPEN MOV V023/CB FTC/RELAY FTC	1.41E-02	1.01E+00	1.1
39	RN55MOD1	MECHANICAL FAILURE OF RNS MOV V055	1.41E-02	1.01E+00	1.1
40	OTH-SGTR	CONSEQUENTIAL SGTR OCCURS	1.00E-02	1.01E+00	1.08
47	EC1BS001TM	UNAVAILABILITY OF BUS ECS ES 1 DUE TO UNSCHEDUL MAINTENANCE	2.70E-03	1.01E+00	0.84
49	OTH-SLSOV1	ANY SECOND. SIDE RELIEF VALVE FAILS TO CLOSE (2 SV + PORV)	2.10E-02	1.01E+00	0 81
50	CLP-UNAVAILABLE	CASK LOADING PIT UNAVAILABLE DUE TO FUEL UNLOADING OPERATIONS	1.00E-02	1.01E+00	0.78
51	EC1BS012TM	BUS UNAVAILABLE DUE TO UNSCHEDULED MAINTENANCE	2.70E-03	1.01E+00	0.76
53	MDAS	UNAVAILABILITY GOAL FOR MANUAL DIVERSE ACTUATION SYSTEM	1.00E-02	1.01E+00	0.75

Table 50-9 (Sheet 2 of 2)

COMPONENT IMPORTANCES – RISK DECREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Reduction Worth	Risk Reduction Percent
57	IWACV124AO	CHECK VALVE 124A FAILS TO OPEN	1.75E-03	1.01E+00	0.73
58	IWACV122AO	CHECK VALVE 122A FAILS TO OPEN	1.75E-03	1.01E+00	0.73
60	CMA-PLUG	FLOW TUNING ORIFICE PLUGS	7.27E-04	1.01E+00	0.7
63	OTH-PRSOV	EITHER PRZR SV FAILS TO RECLOSE	1.00E-02	1.01E+00	0.69
66	IRWMOD06	HARDWARE FAILURE OF VALVE 125A	1.46E-03	1.01E+00	0.61
67	IRWMOD05	HARDWARE FAILURE OF VALVE 123A	1.46E-03	1.01E+00	0.61
70	ED3MOD07	EDS3 EA 1 DISTR. PNL FAILURE OR T&M	3.05E-04	1.01E+00	0.49
72	DAS	UNAVAILABILITY GOAL FOR DAS	1.00E-02	1.00E+00	0.42
74	OTH-R05	FAILURE TO RECOVER OFFSITE AC POWER IN 30 MINUTES	7.00E-01	1.00E+00	0.4
75	CANTP011RI	FAILURE OF AIR COMPRESSOR TRANSMITTER	5.23E-03	1.00E+00	0.38
77	IWBRS123AFA	RELAY FAILS TO OPERATE	8.76E-04	1.00E+00	0.36
78	IWDRS125AFA	RELAY FAILS TO OPERATE	8.76E-04	1.00E+00	0.36
81	IDBBSDS1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	1.00E+00	0.32
82	IDBBSDD1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	1.00E+00	0.32

Note:

a. The relative rank numbers denote the ranking of the component failure in the overall core damage quantification importance ranking, including operator actions and initiating events.

Table 50-10 (Sheet 1 of 4)

COMPONENT IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
12	IWA-PLUG	IWRST DISCHARGE LINE "A" STRAINER PLUGGED	2.40E-04	8.81E+02	8.80E+04
33	PCNHR001ML	PLUG/LEAK OF PRHR HEAT EXCHANGER	2.40E-06	7.06E+01	6.96E+03
34	IWNTK001AF	FAILURE OF THE PRHR DUE TO IRWS TANK FAILURE	2.40E-06	7.06E+01	6.96E+03
41	ACAOR001SP	FLOW TUNING ORIFICE PLUGS	7.27E-04	2.40E+01	2.30E+03
42	ACACV028GO	CHECK VALVE 028A FAILS TO OPEN	1.75E-03	2.39E+01	2.29E+03
43	ACACV029GO	CHECK VALVE 029A FAILS TO OPEN	1.75E-03	2.39E+01	2.29E+03
44	ACATK001AF	ACCUMULATOR TANK A (T001A) RUPTURES	2.40E-06	2.39E+01	2.29E+03
45	ACAOR001EB	FLOW TUNING ORIFICE RUPTURES	7.20E-07	2.38E+01	2.28E+03
46	ACBOR001SP	FLOW TUNING ORIFICE PLUGS	7.27E-04	2.27E+01	2.17E+03
47	ACBTK001AF	ACCUMULATOR TANK B (T001B) RUPTURES	2.40E-06	2.27E+01	2.17E+03
48	ACBOR001EB	FLOW TUNING ORIFICE RUPTURES	7.20E-07	2.27E+01	2.17E+03
49	ACBCV029GO	CHECK VALVE 029B FAILS TO OPEN	1.75E-03	2.27E+01	2.17E+03
50	ACBCV028GO	CHECK VALVE 028B FAILS TO OPEN	1.75E-03	2.27E+01	2.17E+03
52	ED3MOD07	EDS3 EA 1 DISTR. PNL FAILURE OR T&M	3.05E-04	1.69E+01	1.59E+03
55	IDBBSDS1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	1.17E+01	1.07E+03
56	IDBBSDD1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	1.16E+01	1.06E+03
57	CMA-PLUG	FLOW TUNING ORIFICE PLUGS	7.27E-04	1.06E+01	9.62E+02

Table 50-10 (Sheet 2 of 4)

COMPONENT IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
58	CMATK002AF	CMT TANK T002A RUPTURES	2.40E-06	1.05E+01	9.53E+02
59	CMA-CV	CHECK VALVES V016A/017A FAIL TO OPEN	2.00E-06	1.05E+01	9.52E+02
60	CMAOR001EB	FLOW TUNING ORIFICE RUPTURES	7.20E-07	1.05E+01	9.47E+02
62	IDBFD013RQ	FUSE DISCONNECT SWITCH (FD13) SPURIOUSLY OPENS	1.20E-05	9.88E+00	8.88E+02
63	IDBBSDS1LF	BUS IDSB-DS-1 FAILS (ALL MODES)	4.80E-06	9.56E+00	8.56E+02
64	IDBBSDD1LF	BUS IDSB-DD-1 FAILS (ALL MODES)	4.80E-06	9.56E+00	8.56E+02
65	IDDBSDS1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	9.54E+00	8.54E+02
66	IDDBSDD1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	9.52E+00	8.52E+02
67	IDDFD019RQ	FUSE DISCONNECT SWITCH (FD19) SPURIOUSLY OPENS	1.20E-05	9.12E+00	8.12E+02
68	IDDBSDS1LF	BUS IDSD-DS-1 FAILS (ALL MODES)	4.80E-06	8.89E+00	7.89E+02
69	IDDBSDD1LF	BUS IDSD-DD-1 FAILS (ALL MODES)	4.80E-06	8.89E+00	7.89E+02
74	IDABSDS1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	5.97E+00	4.97E+02
75	IDABSDD1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	5.95E+00	4.95E+02
77	IDCBSDS1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	5.54E+00	4.54E+02
78	IDCBSDD1TM	BUS UNAVAILABLE DUE TO TEST OR CORRECTIVE MAINTENANCE	3.00E-04	5.52E+00	4.52E+02
79	IDAFD003RQ	FUSE DISCONNECT SWITCH (FD3) SPURIOUSLY OPENS	1.20E-05	5.48E+00	4.48E+02
80	IDABSDD1LF	BUS IDSA-DD-1 FAILS (ALL MODES)	4.80E-06	5.37E+00	4.37E+02

Table 50-10 (Sheet 3 of 4)

COMPONENT IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
81	IDABSDS1LF	BUS IDSA-DS-1 FAILS (ALL MODES)	4.80E-06	5.37E+00	4.37E+02
82	IWBRS123AFA	RELAY FAILS TO OPERATE	8.76E-04	5.15E+00	4.15E+02
83	IWDRS125AFA	RELAY FAILS TO OPERATE	8.76E-04	5.15E+00	4.15E+02
84	IRWMOD06	HARDWARE FAILURE OF VALVE 125A	1.46E-03	5.15E+00	4.15E+02
85	IRWMOD05	HARDWARE FAILURE OF VALVE 123A	1.46E-03	5.15E+00	4.15E+02
86	IWACV124AO	CHECK VALVE 124A FAILS TO OPEN	1.75E-03	5.14E+00	4.14E+02
87	IWACV122AO	CHECK VALVE 122A FAILS TO OPEN	1.75E-03	5.14E+00	4.14E+02
89	IDCFD007RQ	FUSE DISCONNECT SWITCH (FD7) SPURIOUSLY OPENS	1.20E-05	4.84E+00	3.84E+02
90	IDCBSDS1LF	BUS IDSC-DS-1 FAILS (ALL MODES)	4.80E-06	4.69E+00	3.69E+02
91	IDCBSDD1LF	BUS IDSC-DD-1 FAILS (ALL MODES)	4.80E-06	4.69E+00	3.69E+02
94	EC1BS001TM	UNAVAILABILITY OF BUS ECS ES 1 DUE TO UNSCHEDULED MAINTENANCE	2.70E-03	4.12E+00	3.12E+02
96	EC1BS012TM	BUS UNAVAILABLE DUE TO UNSCHEDULED MAINTENANCE	2.70E-03	3.82E+00	2.82E+02
98	AD4MOD09	HARDWARE FAILURE OF ST. #4 LINE 3	5.80E-04	3.74E+00	2.74E+02
99	AD4MOD08	HARDWARE FAILURE OF ST. #4 LINE 2	5.80E-04	3.74E+00	2.74E+02
100	AD4MOD07	HARDWARE FAILURE OF ST. #4 LINE 1	5.80E-04	3.74E+00	2.74E+02
101	AD4MOD10	HARDWARE FAILURE OF ST. #4 LINE 4	5.80E-04	3.74E+00	2.74E+02

Table 50-10 (Sheet 4 of 4)

COMPONENT IMPORTANCES – RISK INCREASE[a]

Rel. Rank	Basic Event ID	Basic Event Description	Basic Event Probability	Risk Achievement Worth	Risk Increase Percent
102	EC1MOD12	FIXED COMPONENT FAULTS	4.80E-05	3.32E+00	2.32E+02
106	REA-PLUG	SUMP SCREEN "A" PLUGS AND PREVENTS FLOW	2.40E-04	2.73E+00	1.73E+02
107	REB-PLUG	SUMP SCREEN "B" PLUGS AND PREVENTS FLOW	2.40E-04	2.70E+00	1.70E+02
108	EC1BS001LF	MECHANICAL FAULT ON BUS ECS ES 1	4.80E-06	2.56E+00	1.56E+02
114	OTH-PO	PRE-EXISTING CONTAINMENT OPENING > 100 SQ CM	1.20E-04	2.28E+00	1.28E+02
118	ED1BSDS1TM	BUS EDS1 DS 1 UNAVAILABLE DUE TO CORRECTIVE MAINTENANCE	3.00E-04	2.10E+00	1.10E+02
120	OTH-SGTR	CONSEQUENTIAL SGTR OCCURS	1.00E-02	2.07E+00	1.07E+02
121	ED1MOD113	FIXED COMPONENTS FAILURE	3.17E-04	2.04E+00	1.04E+02
122	ED1MOD11	FIXED COMPONENTS FAILURE	3.17E-04	2.04E+00	1.04E+02

Note:

a. The relative rank numbers denote the ranking of the component failure in the overall core damage quantification importance ranking, including operator actions and initiating events.

Table 50-11 (Sheet 1 of 4)

LIST OF SYSTEMS FOR SYSTEM IMPORTANCE ANALYSES

Case Name	System Name	Case Description	Fault Trees	Basic Events
Case 9	ADS	No credit is taken for ADS in core damage sequences	All ADS fault trees	AD2MOD1, AD2MOD2, AD3MOD3, AD3MOD4, AD4MOD7, AD4MOD8, AD4MOD9, AD4MOD10, AND-MAN01, ADX-EV-SA, ADX-MV-GO, ADX-MV3-GO, ADX-EV-SA2, LPM-MAN01, LPM-MAN02
Case 10	CMT	No credit is taken for CMT in core damage sequences	All CMT fault trees	CCX-AV-LA, CMA-CV, CMA-PLUG, CMAAV014LA, CMAAV015LA, CMAOR001EB, CMATK002AF, CMB-PLUG, CMX-AV-LA, CMX-CV-GO, CMX-TK-AF, CMX-VS-FA
Case 11	ACC	No credit is taken for accumulators in core damage sequences	All accumulator fault trees	ACACV028GO, ACACV029GO, ACAOR001EB, ACAOR001SP, ACATK001AF, ACBCV028GO, ACBCV029GO, ACBOR001EB, ACBOR001SP, ACBTK001AF, ACX-CV-GO, ACX-TK-AF
Case 12	IRWST-INJ	No credit is taken for IRWST Injection in core damage sequences	IW2AB, IW1A	IWA-PLUG, IWACV122AO, IWACV124AO, IWB-PLUG, IWBCV122AO, IWBCV124AO, IWX-CV-AO, IWXCV1-AO, IWXFL-GP, IWX-EV1-SA, IRWMOD05, IRWMOD06, IRWMOD07, IRWMOD08
Case 13	IRWST-REC	No credit is taken for IRWST recirculation in core damage sequences	RECIRC, RECIRCP, RECIRCB, RECIRC1, RECIRC1P, RECIRC1B	REA-PLUG, REACV119GO, REB-PLUG, REBCV119GO, REX-FL-GP, IRCEP118ASA, IRDEP118BSA, IWX-EV2-SA, IWX-EV4-SA, IRWMOD09, IRWMOD10, IRWMOD11, IRWMOD12
Case 14	PRHR	No credit is taken for Passive RHR in core damage sequences	PRI, PRP PRT, PRTA, PRL, PRW, PRS	IWNTK001AF, PRAAV108LA, PRAAV108TM, PRBAV108LA, PRBAV108TM, PXX-AV-LA, PXX-AV-LA1, PRAAV130LA, PRAAV130TM, PRBAV130LA, PRBAV130TM, PRI-MAN01, PRAMOD9, PRAMOD10, PRBMOD10

Table 50-11 (Sheet 2 of 4)

LIST OF SYSTEMS FOR SYSTEM IMPORTANCE ANALYSES

Case Name	System Name	Case Description	Fault Trees	Basic Events
Case 15	PMS	No credit is taken for PMS in core damage sequences	All PMS fault trees	ATW-MAN01C, ATW-MAN03, ATW-MAN04C, ATW-MAN05, CCX-EP-SAM, CCX-PMS-HARDWARE, CCX-EAI, CCX-EAO, CCX-EP-SA, CCX-IN-LOGIC-SW, CCX-INPUT-LOGIC, CCX-PMA030, CCX-PMAEH0, CCX-PMAMOD1, CCX-PMAMOD4, CCX-PMB030, CCX-PMBMOD1, CCX-PMBMOD2, CCX-PMC030, CCX-PMCMOD1, CCX-PMD030, CCX-PMDEH0, CCX-PMDMOD1, CCX-PMDMOD2, CCX-PMDMOD4, CCX-PMDMOD4-SW, CCX-TT-UF, CCX-XMTR195, CIB-MAN00, CIB-MAN01, ALL-IND-FAIL
Case 16	PLS	No credit is taken for PLS in core damage sequences	All PLS fault trees	CCX-EP-SA, CCX-PLSMOD6, CCX-PL2MOD5, CCX-PL2MOD5-SW, CCX-PL903, CCX-PL9MOD1, CCX-PL9MOD1-SW, CCX-PL2MOD1, CCX-PL303, CCX-PL3MOD1, CCX-PL3MOD1-SW, CCX-PL3MOD5, CCX-PL3MOD5-SW, CCX-PLB03, CCX-PLBMOD1, CCX-PLMMOD4, CCX-PLMOD3, CCX-PLMOD3-SW, CCX-PLSMOD6-SW, ALL-IND-FAIL
Case 17	DAS	No credit is taken for DAS in core damage sequences	DAS, DAS1	DAS, MDAS, ATW-MAN04, ATW-MAN04C, ATW-MAN06, REC-MANDAS, REC-MANDASC, ALL-IND-FAIL
Case 18	N-RHR	No credit is taken for normal RHR in core damage sequences	RNR, RNN, RNH	RHN-MAN01, RN11MOD3, RN22MOD4, RN23MOD5, RNAMOD06, RNAMOD09, RNBMOD07, RNBMOD10, RNNCV013GO, RNX-CV-GO, RNX-KV-GO, RNX-PM-ER, RNX-PM-FS, RNAEP022SA, RNBEP011SA, RNDEP023SA, RN55MOD1, CLP-UNAVAILABLE, RNX-KV1-GO, RNAEP01ASA, RNAEP01BSA, RNNCV056GO

Table 50-11 (Sheet 3 of 4)

LIST OF SYSTEMS FOR SYSTEM IMPORTANCE ANALYSES

Case Name	System Name	Case Description	Fault Trees	Basic Events
Case 19	SG overfill protection	No credit is taken for SG overfill protection in core damage sequences	SGHL	***SEE NOTE***
Case 20	MFW	No credit is taken for MFW in core damage sequences	FWT, FWF	CONDVACUUM, MSX-AV4-FA, CDNTF01BRI, MSMODV001, MSMODV003, TCBMOD01B
Case 21	SFW	No credit is taken for SFW in core damage sequences	SFW, SFWT, SFW1, SFWP, SFWM, SFWA	FWMOD013A, FWMOD013B, FWMOD03A, FWMOD03B, FWX-MV2-GO, FWX-PM2-FS, SGX-MV-RP, SGX-AV-FA, FWX-PM2-ER, SGX-CV-GO
Case 22	AC	No credit is taken for AC Power in core damage sequences	All AC Power fault trees	EC0MOD01, EC1BS001LF, EC1BS001TM, EC1BS011TM, EC1BS012TM, EC1BS013TM, EC1BS111TM, EC1BS112TM, EC1BS121TM, EC1BS122TM, EC1BS131TM, EC1CB100RQ, EC1CB100VO, EC1MOD01, EC1MOD11, EC1MOD12, EC1MOD121, EC1MOD13, EC2BS002LF, EC2BS002TM, EC2BS021TM, EC2BS022TM, EC2BS023TM, EC2BS211TM, EC2BS212TM, EC2BS221TM, , EC2BS222TM, EC2BS231TM, EC2CB200VO, EC2MOD22, EC2MOD221, EC2MOD23, ECX-CB-GC, ECX-CB-GO
Case 23	DG	No credit is taken for diesel generators in core damage sequences	DGEN	ZO1DG001TM, ZO1MOD01, ZO1MOD03, ZO1MOD04, ZO2DG002TM, ZO2MOD01, ZO2MOD04, ZOX-BL-ES, ZOX-DG-DR, ZOX-DG-DS, ZOX-PD-ER, ZOX-PD-ES

Table 50-11 (Sheet 4 of 4)

LIST OF SYSTEMS FOR SYSTEM IMPORTANCE ANALYSES

Case Name	System Name	Case Description	Fault Trees	Basic Events
Case 24	DC-1E	No credit is taken for 1E DC power in core damage sequences	All 1E DC power fault trees	CCX-BC-SA, CCX-BY-PN, IDABSDD1LF, IDABSDD1TM, IDABSDK1LF, IDABSDK1TM, IDABSDS1LF, IDABSDS1TM, IDAFD003RQ, IDAFD004RQ, IDAMOD04, IDAMOD05, IDAMOD07, IDAMOD08, IDBBSDD1LF, IDBBSDD1TM, IDBBSDK1LF, IDBBSDK1TM, IDBBSDS1LF, IDBBSDS1TM, IDBFD013RQ, IDBMOD24, IDBMOD25, IDBMOD27, IDBMOD36, IDCBSDD1LF, IDCBSDD1TM, IDCBSDS1LF, IDCBSDS1TM, IDCFD007RQ, IDDBSDD1LF, IDDBSDD1TM, IDDBSDS1LF, IDDBSDS1TM, IDDFD019RQ, IDDMOD32, IDDMOD33, IDDMOD35, IDDMOD38
Case 25	DC-Non 1E	No credit is taken for Non-1E DC power in core damage sequences	All Non-1E DC power fault trees	CCX-BY-PN1, ED1BSDS1LF, ED1BSDS1TM, ED1MOD01, ED1MOD02, ED1MOD03, ED1MOD06, ED1MOD07, ED1MOD11, ED1MOD113, ED1MOD13, ED2BSDS1TM, ED2MOD03, ED2MOD11, ED3BSDS1TM, ED3MOD01, ED3MOD03, ED3MOD04, ED3MOD06, ED3MOD07, ED4BSDS1TM, ED4MOD03, ED4MOD11, ED4MOD112
Case 26	SWS	No credit is taken for SWS in core damage sequences	SWT, SWP, SWN	SWAMOD03, SWAMOD09T, SWB-001TM, SWBMOD02, SWX-PM-ER
Case 27	CCS	No credit is taken for CCS in core damage sequences	CCT, CCN, CCP	CCAMOD02, CCAMOD03, CCBMOD01
Case 28	CAS	No credit is taken for CAS in core damage sequences	CAIAIR, CAIR, CAIAIRP	CANTP011RI, CASMOD01, CASMOD02, CASMOD03, CASPPRUPT, CAX-CM-ER, CA9EPCMPASA

Note:
No basic events for Case 20: SG Overfill Protection events were not included in the file "CMTOT.OUT." These event probabilities were too low to be considered.

Table 50-12 (Sheet 1 of 2)

SYSTEM IMPORTANCE CALCULATION RESULTS

Case Name	System Name	Case Description	New Core Damage Frequency (Q_{NEW})	Core Damage Frequency Increasing Factor (R = QNEW/2.41E-7)(*)
Case 9	ADS	No credit is taken for ADS in core damage sequences	1.46E-03	6040
Case 10	CMT	No credit is taken for CMT in core damage sequences	7.08E-05	294
Case 11	ACC	No credit is taken for Accumulators in core damage sequences	6.01E-05	249
Case 12	IRWST-INJ	No credit is taken for IRWST Injection in core damage sequences	3.93E-04	1631
Case 13	IRWST-REC	No credit is taken for IRWST recirculation in core damage sequences	1.47E-03	6119
Case 14	PRHR	No credit is taken for passive RHR in core damage sequences	1.84E-05	76
Case 15	PMS	No credit is taken for PMS in core damage sequences	1.59E-02	65878
Case 16	PLS	No credit is taken for PLS in core damage sequences	9.00E-06	37
Case 17	DAS	No credit is taken for DAS in core damage sequences	3.89E-6	16
Case 18	N-RHR	No credit is taken for normal RHR in core damage sequences	4.11E-07	1.7
Case 19	SG Overfill Protection	No credit is taken for SG overfill protection in core damage sequences	2.41E-07	1.0
Case 20	MFW	No credit is taken for main feedwater in core damage sequences	2.54E-07	1.1

Table 50-12 (Sheet 2 of 2)

SYSTEM IMPORTANCE CALCULATION RESULTS

Case Name	System Name	Case Description	New Core Damage Frequency (Q_{NEW})	Core Damage Frequency Increasing Factor (R = QNEW/2.41E-7)(*)
Case 21	SFW	No credit is taken for startup feedwater in core damage sequences	2.78E-07	1.2
Case 22	AC	No credit is taken for AC power in core damage sequences	2.36E-06	10
Case 23	DG	No credit is taken for diesel generators in core damage sequences	2.56E-07	1.1
Case 24	DC-1E	No credit is taken for 1E DC power in core damage sequences	5.65E-03	23454
Case 25	DC-Non 1E	No credit is taken for Non-1E DC power in core damage sequences	6.56E-06	27
Case 26	SWS	No credit is taken for SWS in core damage sequences	4.00E-07	1.7
Case 27	CCS	No credit is taken for CCS in core damage sequences	3.78E-07	1.6
Case 28	CAS	No credit is taken for CAS in core damage sequences	4.14E-07	1.7

Note:

* Core damage frequency increasing factor (R) was calculated as the new core damage frequency ((Q_{NEW}) shown in this Table divided by the base case (2.41E-07). The core damage frequency of the base case was calculated in Chapter 33.

Table 50-13

SYSTEMS GROUPED BY PRA SYSTEM IMPORTANCE

Important			Medium Importance(*)	Marginally Important	
1E-02	**1E-03**	**1E-04**	**1E-05**	**1E-06**	**1E-07**
PMS	ADS	IRW-INJ	CMT	AC Power	SG Overfill Protection
	IRW-RECIRC		ACC		NRHR
	DC-1E		PRHR		MFW
			PLS		SFW
			NON DC-1E		DG
			DAS		SWS
					CCS
					CAS

Note:

* Core melt values greater than 5.0E-06 are conservatively classified in this column, since this column contains transition from marginally important category to important category.

Table 50-14

OPERATOR ACTIONS IN "CMTOT.OUT" FILE

31	ADF-MAN01	5.00E-01	0.00E+00
32	ADN-MAN01	3.02E-03	0.00E+00
33	*ADN-MAN01C	5.00E-01	0.00E+00
39	ATW-MAN01	3.30E-02	0.00E+00
40	*ATW-MAN01C	5.17E-01	0.00E+00
41	ATW-MAN03	5.20E-02	0.00E+00
42	ATW-MAN04	5.20E-02	0.00E+00
43	*ATW-MAN04C	5.26E-01	0.00E+00
44	ATW-MAN05	5.20E-03	0.00E+00
45	ATW-MAN06	5.20E-03	0.00E+00
46	*ATW-MAN06C	5.00E-01	0.00E+00
135	CIB-MAN00	1.84E-03	0.00E+00
136	CIB-MAN01	1.34E-03	0.00E+00
167	CVN-MAN00	3.10E-03	0.00E+00
168	CVN-MAN02	1.58E-03	0.00E+00
169	CVN-MAN03	1.07E-03	0.00E+00
175	DUMP-MAN01	1.32E-03	0.00E+00
254	HPM-MAN01	5.02E-04	0.00E+00
358	LPM-MAN01	1.34E-03	0.00E+00
359	*LPM-MAN01C	5.00E-01	0.00E+00
360	LPM-MAN02	3.30E-03	0.00E+00
383	OTH-SDMAN	7.70E-04	0.00E+00
489	PRI-MAN01	4.96E-04	0.00E+00
505	REC-MANDAS	1.16E-02	0.00E+00
506	*REC-MANDASC	5.06E-01	0.00E+00
507	REG-MAN00	2.04E-01	0.00E+00
508	REN-MAN04	1.00E-02	0.00E+00
510	RHN-MAN01	2.90E-03	0.00E+00
565	SWN-MAN03	4.00E-02	0.00E+00
580	VWN-MAN01	5.16E-03	0.00E+00

Note:
* denotes conditional HEPs

Table 50-15

CONTRIBUTION OF IEVS TO CORE DAMAGE FREQUENCY

	Initiating Event	Percent Contribution	CDF Contribution (A)	Base CDF Contribution (B)	Ratio (A/B)
1	IEV-SGTR	40.19	5.50E-06	6.79E-09	810
2	IEV-RCSLK	30.31	4.15E-06	1.71E-09	2425
3	IEV-ATWS	7.16	9.80E-07	3.61E-09	271
4	IEV-SLOCA	5.47	7.49E-07	1.81E-08	41
5	IEV-MLOCA	4.77	6.52E-07	1.61E-08	41
6	IEV-SI-LB	3.92	5.37E-07	9.5E-08	6
7	IEV-ATW-T	3.51	4.80E-07	7.12E-10	675
8	IEV-CMTLB	1.55	2.11E-07	3.68E-09	57
9	IEV-PRSTR	0.51	6.92E-08	5.02E-10	138
10	IEV-POWEX	0.47	6.48E-08	1.66E-09	39
11	IEV-SPADS	0.4	5.51E-08	2.96E-08	2
12	IEV-LLOCA	0.35	4.73E-08	4.5E-08	1
13	IEV-LOSP	0.33	4.55E-08	9.58E-10	48
14	IEV-TRANS	0.3	4.07E-08	3.08E-09	13
15	IEV-LCOND	0.22	2.99E-08	1.24E-09	24
16	IEV-LCAS	0.14	1.94E-08	6.72E-10	29
17	IEV-LMFW	0.1	1.40E-08	8.7E-10	16
18	IEV-SLB-V	0.1	1.40E-08	6.06E-10	23
19	IEV-RV-RP	0.07	1.00E-08	1E-08	1
20	IEV-LMFW1	0.04	6.15E-09	4.53E-10	14
21	IEV-ATW-S	0.03	4.41E-09	1.11E-10	40
22	IEV-LCCW	0.03	3.90E-09	3.23E-10	12
23	IEV-SLB-U	0.02	2.20E-09	1.31E-10	17
24	IEV-LRCS	0	3.65E-10	3.52E-11	10
25	IEV-SLB-D	0	2.45E-10	9.15E-12	27
26	IEV-ISLOC	0	5.00E-11	5E-11	1
	SUM	100.0	1.37E-05	2.41E-07	57

Table 50-16 (Sheet 1 of 2)

CASE 29 – TOP 50 DOMINANT CUTSETS

1	2.96E-06	2	IEV-RCSLK	IWX-XMTR	
2	1.85E-06	2	IEV-SGTR	IWX-XMTR	
3	1.63E-06	2	IEV-SGTR	RPX-CB-GO	
4	4.00E-07	2	IEV-SGTR	CCX-INPUT-LOGIC	
5	3.80E-07	3	IEV-ATWS	CCX-PMS-HARDWARE	DAS
6	3.66E-07	2	IEV-RCSLK	ADX-EV-SA2	
7	2.67E-07	3	IEV-ATW-T	CCX-XMTR	CCX-XMTR195
8	2.41E-07	2	IEV-SGTR	CCX-AV-LA	
9	2.39E-07	2	IEV-SLOCA	IWX-XMTR	
10	2.29E-07	2	IEV-SGTR	ADX-EV-SA2	
11	2.10E-07	2	IEV-SLOCA	RPX-CB-GO	
12	2.08E-07	2	IEV-MLOCA	IWX-XMTR	
13	1.98E-07	3	IEV-ATWS	CCX-PMS-HARDWARE	MSHTP002RI
14	1.98E-07	3	IEV-ATWS	CCX-PMS-HARDWARE	MSHTP001RI
15	1.98E-07	2	IEV-SGTR	CMX-CV-GO	
16	1.86E-07	2	IEV-RCSLK	ADX-EV-SA	
17	1.86E-07	2	IEV-RCSLK	IWX-CV-AO	
18	1.83E-07	2	IEV-MLOCA	RPX-CB-GO	
19	1.61E-07	2	IEV-RCSLK	IWX-EV-SA	
20	1.54E-07	2	IEV-SI-LB	CMA-PLUG	
21	1.16E-07	2	IEV-SGTR	IWX-CV-AO	
22	1.16E-07	2	IEV-SGTR	ADX-EV-SA	
23	1.10E-07	3	IEV-ATWS	CCX-XMTR	CCX-XMTR195
24	1.01E-07	2	IEV-SI-LB	IWX-XMTR	
25	1.01E-07	2	IEV-SGTR	IWX-EV-SA	
26	9.48E-08	3	IEV-ATW-T	RCX-RB-FA	DAS
27	8.90E-08	2	IEV-SI-LB	RPX-CB-GO	
28	7.44E-08	2	IEV-RCSLK	IWX-FL-GP	

Table 50-16 (Sheet 2 of 2)

CASE 29 – TOP 50 DOMINANT CUTSETS

29	7.44E-08	2	IEV-RCSLK	REX-FL-GP	
30	6.84E-08	3	IEV-SGTR	RC1CB053GO	RC1CB054GO
31	6.84E-08	3	IEV-SGTR	RC1CB061GO	RC1CB062GO
32	6.84E-08	3	IEV-SGTR	RC1CB051GO	RC1CB052GO
33	6.84E-08	3	IEV-SGTR	RC1CB063GO	RC1CB064GO
34	6.82E-08	2	IEV-RCSLK	CCX-PMXMOD1-SW	
35	6.77E-08	2	IEV-CMTLB	CMA-PLUG	
36	6.41E-08	2	IEV-PRSTR	IWX-XMTR	
37	5.34E-08	2	IEV-RCSLK	CCX-EP-SAM	
38	5.15E-08	2	IEV-SLOCA	CCX-INPUT-LOGIC	
39	5.09E-08	2	IEV-SI-LB	IWA-PLUG	
40	4.96E-08	3	IEV-ATW-T	RCX-RB-FA	MSHTP002RI
41	4.96E-08	3	IEV-ATW-T	RCX-RB-FA	MSHTP001RI
42	4.66E-08	2	IEV-SGTR	IWX-FL-GP	
43	4.66E-08	2	IEV-SGTR	REX-FL-GP	
44	4.49E-08	2	IEV-MLOCA	CCX-INPUT-LOGIC	
45	4.45E-08	2	IEV-CMTLB	IWX-XMTR	
46	4.27E-08	2	IEV-SGTR	CCX-PMXMOD1-SW	
47	3.91E-08	2	IEV-CMTLB	RPX-CB-GO	
48	3.90E-08	3	IEV-ATWS	RCX-RB-FA	DAS
49	3.34E-08	2	IEV-SGTR	CCX-EP-SAM	
50	3.10E-08	2	IEV-SLOCA	CCX-AV-LA	

Table 50-17 (Sheet 1 of 2)

CASE 30 – TOP 50 DOMINANT CUTSETS

	Cutset Prob.	Number of Basic Events	Cutset Identifier		
1	5.09E-08	2	IEV-SI-LB	IWA-PLUG	
2	1.25E-08	2	IEV-SI-LB	ADX-EV-SA2	
3	1.00E-08	1	IEV-RV-RP		
4	8.75E-09	2	IEV-LLOCA	ACACV029GO	
5	8.75E-09	2	IEV-LLOCA	ACACV028GO	
6	8.75E-09	2	IEV-LLOCA	ACBCV029GO	
7	8.75E-09	2	IEV-LLOCA	ACBCV028GO	
8	6.36E-09	2	IEV-SI-LB	IWX-CV-AO	
9	6.36E-09	2	IEV-SI-LB	ADX-EV-SA	
10	6.00E-09	2	IEV-SLOCA	REX-FL-GP	
11	5.56E-09	2	IEV-SPADS	CCX-INPUT-LOGIC	
12	5.51E-09	2	IEV-SI-LB	IWX-EV-SA	
13	5.23E-09	2	IEV-MLOCA	REX-FL-GP	
14	3.64E-09	2	IEV-LLOCA	ACAOR001SP	
15	3.64E-09	2	IEV-LLOCA	ACBOR001SP	
16	3.35E-09	2	IEV-SPADS	CCX-AV-LA	
17	3.19E-09	2	IEV-SPADS	ADX-EV-SA2	
18	2.75E-09	2	IEV-SPADS	CMX-CV-GO	
19	2.75E-09	2	IEV-SPADS	ACX-CV-GO	
20	2.54E-09	2	IEV-SI-LB	REX-FL-GP	
21	2.07E-09	2	IEV-SPADS	CMX-VS-FA	
22	1.62E-09	2	IEV-SPADS	IWX-CV-AO	
23	1.62E-09	2	IEV-SPADS	ADX-EV-SA	
24	1.40E-09	2	IEV-SPADS	IWX-EV-SA	
25	1.23E-09	2	IEV-SI-LB	IWX-EV1-SA	
26	1.12E-09	2	IEV-CMTLB	REX-FL-GP	

Table 50-17 (Sheet 2 of 2)

CASE 30 – TOP 50 DOMINANT CUTSETS

	Cutset Prob.	Number of Basic Events	Cutset Identifier		
27	6.49E-10	3	IEV-SI-LB	IWACV122AO	IWACV124AO
28	6.48E-10	2	IEV-SPADS	REX-FL-GP	
29	6.48E-10	2	IEV-SPADS	IWX-FL-GP	
30	5.94E-10	2	IEV-SPADS	CCX-IN-LOGIC-SW	
31	5.94E-10	2	IEV-SPADS	CCX-PMXMOD2-SW	
32	5.94E-10	2	IEV-SPADS	CCX-PMXMOD1-SW	
33	5.42E-10	3	IEV-SI-LB	IWACV122AO	IRWMOD06
34	5.42E-10	3	IEV-SI-LB	IRWMOD05	IWACV124AO
35	5.40E-10	3	IEV-POWEX	OTH-PRSOV	REX-FL-GP
36	5.15E-10	2	IEV-LLOCA	CCX-INPUT-LOGIC	
37	5.12E-10	3	IEV-TRANS	CCX-SFTW	ED3MOD07
38	4.65E-10	2	IEV-SPADS	CCX-EP-SAM	
39	4.52E-10	3	IEV-SI-LB	IRWMOD05	IRWMOD06
40	4.27E-10	3	IEV-SGTR	CCX-PMXMOD1-SW	MDAS
41	4.16E-10	3	IEV-SLOCA	ADX-EV-SA2	RN55MOD1
42	4.16E-10	3	IEV-SLOCA	ADX-EV-SA2	RN11MOD3
43	4.16E-10	3	IEV-SLOCA	ADX-EV-SA2	RN22MOD4
44	4.16E-10	3	IEV-SLOCA	ADX-EV-SA2	RN23MOD5
45	3.63E-10	3	IEV-MLOCA	ADX-EV-SA2	RN55MOD1
46	3.63E-10	3	IEV-MLOCA	ADX-EV-SA2	RN11MOD3
47	3.63E-10	3	IEV-MLOCA	ADX-EV-SA2	RN22MOD4
48	3.63E-10	3	IEV-MLOCA	ADX-EV-SA2	RN23MOD5
49	3.34E-10	3	IEV-SGTR	CCX-EP-SAM	MDAS
50	3.25E-10	3	IEV-SI-LB	IWACV122AO	IWDRS125AFA

Table 50-18 (Sheet 1 of 3)

CASE 31 – TOP 50 DOMINANT CUTSETS

	Cutset Prob.	Number of Basic Events	Cutset Identifier					
1	1.85E-07	3	IEV-SGTR	ALL-IND-FAIL	IWX-XMTR			
2	1.63E-07	3	IEV-SGTR	ALL-IND-FAIL	RPX-CB-GO			
3	5.09E-08	2	IEV-SI-LB	IWA-PLUG				
4	4.12E-08	5	IEV-SGTR	CIB-MAN01	RPX-CB-GO	REC-MANDASC	LPM-MAN01C	
5	4.12E-08	5	IEV-SGTR	CIB-MAN00	RPX-CB-GO	REC-MANDASC	ADN-MAN01C	
6	4.12E-08	5	IEV-SGTR	CIB-MAN00	RPX-CB-GO	REC-MANDASC	LPM-MAN01C	
7	4.00E-08	3	IEV-SGTR	ALL-IND-FAIL	CCX-INPUT-LOGIC			
8	2.96E-08	4	IEV-RCSLK	OTH-SDMAN	IWX-XMTR	REN-MAN04		
9	2.41E-08	3	IEV-SGTR	ALL-IND-FAIL	CCX-AV-LA			
10	2.39E-08	3	IEV-SLOCA	IWX-XMTR	REN-MAN04			
11	2.39E-08	3	IEV-SLOCA	ALL-IND-FAIL	IWX-XMTR			
12	2.29E-08	3	IEV-SGTR	ALL-IND-FAIL	ADX-EV-SA2			
13	2.10E-08	3	IEV-SLOCA	RPX-CB-GO	ALL-IND-FAIL			
14	2.08E-08	3	IEV-MLOCA	IWX-XMTR	REN-MAN04			
15	2.08E-08	3	IEV-MLOCA	ALL-IND-FAIL	IWX-XMTR			
16	2.06E-08	6	IEV-SGTR	CVN-MAN00	ADF-MAN01	RPX-CB-GO	REC-MANDASC	ADN-MAN01C
17	1.98E-08	3	IEV-SGTR	ALL-IND-FAIL	CMX-CV-GO			

Table 50-18 (Sheet 2 of 3)

CASE 31 – TOP 50 DOMINANT CUTSETS

	Cutset Prob.	Number of Basic Events	Cutset Identifier					
18	1.85E-08	4	IEV-SGTR	CIB-MAN01	IWX-XMTR	REN-MAN04		
19	1.85E-08	4	IEV-SGTR	CIB-MAN00	IWX-XMTR	REN-MAN04		
20	1.83E-08	3	IEV-MLOCA	RPX-CB-GO	ALL-IND-FAIL			
21	1.54E-08	3	IEV-SI-LB	CMA-PLUG	ALL-IND-FAIL			
22	1.34E-08	5	IEV-ATW-T	ATW-MAN05	CCX-XMTR	CCX-XMTR195	ATW-MAN06C	
23	1.25E-08	2	IEV-SI-LB	ADX-EV-SA2				
24	1.16E-08	3	IEV-SGTR	ALL-IND-FAIL	ADX-EV-SA			
25	1.16E-08	3	IEV-SGTR	ALL-IND-FAIL	IWX-CV-AO			
26	1.06E-08	4	IEV-SLOCA	RPX-CB-GO	REC-MANDASC	ADN-MAN01		
27	1.06E-08	4	IEV-SLOCA	RPX-CB-GO	REC-MANDASC	LPM-MAN01		
28	1.01E-08	3	IEV-SI-LB	IWX-XMTR	ALL-IND-FAIL			
29	1.01E-08	3	IEV-SI-LB	IWX-XMTR	REN-MAN04			
30	1.01E-08	5	IEV-SGTR	CIB-MAN00	REC-MANDASC	CCX-INPUT-LOGIC	LPM-MAN01C	
31	1.01E-08	5	IEV-SGTR	CIB-MAN00	REC-MANDASC	CCX-INPUT-LOGIC	ADN-MAN01C	
32	1.01E-08	3	IEV-SGTR	ALL-IND-FAIL	IWX-EV-SA			
33	1.00E-08	1	IEV-RV-RP					
34	9.48E-09	4	IEV-ATW-T	RCX-RB-FA	DAS	ALL-IND-FAIL		
35	9.27E-09	4	IEV-MLOCA	RPX-CB-GO	REC-MANDASC	LPM-MAN02		

Table 50-18 (Sheet 3 of 3)

CASE 31 – TOP 50 DOMINANT CUTSETS

	Cutset Prob.	Number of Basic Events	Cutset Identifier					
36	9.27E-09	4	IEV-MLOCA	RPX-CB-GO	REC-MANDASC	ADN-MAN01		
37	8.90E-09	3	IEV-SI-LB	RPX-CB-GO	ALL-IND-FAIL			
38	8.75E-09	2	IEV-LLOCA	ACBCV029GO				
39	8.75E-09	2	IEV-LLOCA	ACBCV028GO				
40	8.75E-09	2	IEV-LLOCA	ACACV028GO				
41	8.75E-09	2	IEV-LLOCA	ACACV029GO				
42	8.25E-09	5	IEV-SGTR	DUMP-MAN01	RPX-CB-GO	REC-MANDASC	ADN-MAN01	
43	8.25E-09	5	IEV-SGTR	DUMP-MAN01	RPX-CB-GO	REC-MANDASC	LPM-MAN01	
44	8.25E-09	5	IEV-SGTR	CIB-MAN01	RPX-CB-GO	REC-MANDASC	ADN-MAN01	
45	7.80E-09	4	IEV-SI-LB	CMA-PLUG	REC-MANDASC	ADN-MAN01		
46	7.80E-09	4	IEV-SI-LB	CMA-PLUG	REC-MANDASC	LPM-MAN02		
47	7.44E-09	3	IEV-RCSLK	OTH-SDMAN	REX-FL-GP			
48	6.84E-09	4	IEV-SGTR	ALL-IND-FAIL	RC1CB063GO	RC1CB064GO		
49	6.84E-09	4	IEV-SGTR	ALL-IND-FAIL	RC1CB051GO	RC1CB052GO		
50	6.84E-09	4	IEV-SGTR	ALL-IND-FAIL	RC1CB053GO	RC1CB054GO		
51	6.84E-09	4	IEV-SGTR	ALL-IND-FAIL	RC1CB061GO	RC1CB062GO		

Table 50-19

PASSIVE SYSTEM CHECK VALVES IN "CMTOT.OUT" FILE

Basic Event ID	Base Case Failure Probability (/d.)	New Failure Probability (/d.)
ACACV028GO	1.75E-03	1.75E-02
ACACV029GO	1.75E-03	1.75E-02
ACBCV028GO	1.75E-03	1.75E-02
ACBCV029GO	1.75E-03	1.75E-02
ACX-CV-GO	5.10E-05	5.10E-04
CMA-CV	2.00E-06	2.00E-05
CMB-CV	2.00E-06	2.00E-05
CMX-CV-GO	5.10E-05	5.10E-04
IWACV122AO	1.75E-03	1.75E-02
IWACV124AO	1.75E-03	1.75E-02
IWBCV122AO	1.75E-03	1.75E-02
IWBCV124AO	1.75E-03	1.75E-02
IWX-CV-AO	3.00E-05	3.00E-04
IWX-CV1-AO	5.40E-07	5.40E-06
REACV119GO	1.75E-03	1.75E-02
REBCV119GO	1.75E-03	1.75E-02

Table 50-20

SENSITIVITY CASE 36 – CONTRIBUTION OF INITIATING EVENTS TO CDF

	Initiating Event	Percent Contribution	Number of Cutsets	CDFContribution	IEV Frequency
1	IEV-TRANS	26.91	923	1.99E-06	1.40E+00
2	IEV-LOSP	23.72	61	1.76E-06	1.20E-01
3	IEV-RCSLK	16.45	53	1.22E-06	6.20E-03
4	IEV-SGTR	8.37	1080	6.20E-07	3.88E-03
5	IEV-LMFW	7.41	393	5.49E-07	3.35E-01
6	IEV-LMFW1	3.58	521	2.65E-07	1.92E-01
7	IEV-LCOND	3.14	169	2.33E-07	1.12E-01
8	IEV-LCCW	2.77	538	2.05E-07	1.44E-01
9	IEV-SLOCA	1.37	390	1.01E-07	5.00E-04
10	IEV-SI-LB	1.37	987	1.01E-07	2.12E-04
11	IEV-MLOCA	1.2	458	8.92E-08	4.36E-04
12	IEV-ATWS	0.81	22	6.02E-08	4.81E-01
13	IEV-LLOCA	0.61	280	4.50E-08	5.00E-06
14	IEV-SPADS	0.4	1016	2.96E-08	5.40E-05
15	IEV-SLB-V	0.37	112	2.78E-08	1.21E-03
16	IEV-LRCS	0.33	119	2.46E-08	1.80E-02
17	IEV-CMTLB	0.26	303	1.95E-08	9.31E-05
18	IEV-POWEX	0.21	192	1.52E-08	4.50E-03
19	IEV-SLB-D	0.17	7	1.24E-08	5.96E-04
20	IEV-RV-RP	0.14	1	1.00E-08	1.00E-08
21	IEV-LCAS	0.13	139	9.93E-09	3.48E-02
22	IEV-SLB-U	0.11	57	8.33E-09	3.72E-04
23	IEV-PRSTR	0.08	155	6.01E-09	1.34E-04
24	IEV-ATW-S	0.03	18	2.42E-09	1.48E-02
25	IEV-ATW-T	0.03	5	2.36E-09	1.17E+00
26	IEV-ISLOC	0	1	5.00E-11	5.00E-11
	SUM	**100.0**	**8000**	**7.41E-06**	**2.37E+00**

Table 50-21 (Sheet 1 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
1	1.68E-06	22.68	TRANSIENT WITH MFW INITIATING EVENT OCCURS	1.40E+00	IEV-TRANS
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW
2	9.24E-07	12.47	LOSS OF OFFSITE POWER INITIATING EVENT OCCURS	1.20E-01	IEV-LOSP
			FAILURE TO RECOVER OFFSITE AC POWER IN 30 MINUTES	7.00E-01	OTH-R05
			CCF OF PMS ESF OUTPUT LOGIC SOFTWARE	1.10E-05	CCX-PMXMOD1-SW
3	7.24E-07	9.77	LOSS OF OFFSITE POWER INITIATING EVENT OCCURS	1.20E-01	IEV-LOSP
			FAILURE TO RECOVER OFFSITE AC POWER IN 30 MINUTES	7.00E-01	OTH-R05
			CCF OF EPO BOARDS IN PMS	8.62E-06	CCX-EP-SAM
4	4.07E-07	5.49	STEAM GENERATOR TUBE RUPTURE INITIATING EVENT OCCURS	3.88E-03	IEV-SGTR
			OPERATOR FAILS TO FULFIL MANUAL ACTUATION OF ADS	5.00E-01	ADF-MAN01
			COMMON CAUSE FAILURE TO OPEN OF 4.16 KVAC CIRCUIT BREAKERS	4.20E-04	RPX-CB-GO
			COND. PROB. OF ADN-MAN01 (OPER. FAILS TO ACT. ADS)	5.00E-01	ADN-MAN01C
5	4.02E-07	5.43	LOSS OF MAIN FEEDWATER INITIATING EVENT OCCURS	3.35E-01	IEV-LMFW
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW
6	3.66E-07	4.94	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			CCF OF 2 SQUIB VALVES TO OPERATE	5.90E-05	ADX-EV-SA2
7	2.30E-07	3.11	LOSS OF MFW TO ONE SG INITIATING EVENT OCCURS	1.92E-01	IEV-LMFW1
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW

Table 50-21 (Sheet 2 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
8	2.17E-07	2.93	TRANSIENT WITH MFW INITIATING EVENT OCCURS	1.40E+00	IEV-TRANS
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO
9	1.86E-07	2.51	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			CCF OF 4 GRAVITY INJECTION CVs	3.00E-05	IWX-CV-AO
10	1.86E-07	2.51	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			DUE TO CCF OF 4TH STAGE ADS SQUIB VALVES TO OPERATE	3.00E-05	ADX-EV-SA
11	1.73E-07	2.34	LOSS OF CCW/SW INITIATING EVENT OCCURS	1.44E-01	IEV-LCCW
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW
12	1.61E-07	2.17	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			CCF OF 4 GRAVITY INJECTION & 2 RECIRCULATION SQUIB VALVES	2.60E-05	IWX-EV-SA
13	1.34E-07	1.81	LOSS OF CONDENSER INITIATING EVENT OCCURS	1.12E-01	IEV-LCOND
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW
14	1.01E-07	1.36	LOSS OF OFFSITE POWER INITIATING EVENT OCCURS	1.20E-01	IEV-LOSP
			FAILURE TO RECOVER OFFSITE AC POWER IN 30 MINUTES	7.00E-01	OTH-R05
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW

Table 50-21 (Sheet 3 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
15	7.44E-08	1	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			CCF OF STRAINERS IN IRWST TANK	1.20E-05	IWX-FL-GP
16	7.44E-08	1	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			PLUGGING OF BOTH RECIRC LINES DUE TO CCF OF SUMP SCREENS	1.20E-05	REX-FL-GP
17	6.82E-08	0.92	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			CCF OF PMS ESF OUTPUT LOGIC SOFTWARE	1.10E-05	CCX-PMXMOD1-SW
18	6.01E-08	0.81	STEAM GENERATOR TUBE RUPTURE INITIATING EVENT OCCURS	3.88E-03	IEV-SGTR
			OPERATOR FAILS TO FULFIL MANUAL ACTUATION OF ADS	5.00E-01	ADF-MAN01
			COMMON CAUSE FAILURE OF 4 AOVS TO OPEN	6.20E-05	CCX-AV-LA
			COND. PROB. OF ADN-MAN01(OPER. FAILS TO ACT. ADS)	5.00E-01	ADN-MAN01C
19	5.34E-08	0.72	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			CCF OF EPO BOARDS IN PMS	8.62E-06	CCX-EP-SAM
20	5.19E-08	0.7	LOSS OF MAIN FEEDWATER INITIATING EVENT OCCURS	3.35E-01	IEV-LMFW
			CCF OF SAFETY PT LT CONTINUOSLY INTERFACING HIGH PRESSURE	4.78E-04	CCX-XMTR
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO
21	5.19E-08	0.7	LOSS OF MAIN FEEDWATER INITIATING EVENT OCCURS	3.35E-01	IEV-LMFW
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO

Table 50-21 (Sheet 4 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
22	5.09E-08	0.69	SAFETY INJECTION LINE BREAK INITIATING EVENT OCCURS	2.12E-04	IEV-SI-LB
			IWRST DISCHARGE LINE "A" STRAINER PLUGGED	2.40E-04	IWA-PLUG
23	4.95E-08	0.67	STEAM GENERATOR TUBE RUPTURE INITIATING EVENT OCCURS	3.88E-03	IEV-SGTR
			OPERATOR FAILS TO FULFIL MANUAL ACTUATION OF ADS	5.00E-01	ADF-MAN01
			COMMON CAUSE FAILURE OF 4 CHECK VALVES TO OPEN	5.10E-05	CMX-CV-GO
			COND. PROB. OF ADN-MAN01(OPER. FAILS TO ACT. ADS)	5.00E-01	ADN-MAN01C
24	4.27E-08	0.58	STEAM GENERATOR TUBE RUPTURE INITIATING EVENT OCCURS	3.88E-03	IEV-SGTR
			CCF OF PMS ESF OUTPUT LOGIC SOFTWARE	1.10E-05	CCX-PMXMOD1-SW
25	3.34E-08	0.45	STEAM GENERATOR TUBE RUPTURE INITIATING EVENT OCCURS	3.88E-03	IEV-SGTR
			CCF OF EPO BOARDS IN PMS	8.62E-06	CCX-EP-SAM
26	3.00E-08	0.41	ATWS PRECURSOR WITH NO MFW INITIATING EVENT OCCURS	4.81E-01	IEV-ATWS
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW
			OPERATOR FAILS TO MANUALLY TRIP REACTOR VIA PMS	5.20E-02	ATW-MAN03
27	2.97E-08	0.4	LOSS OF MFW TO ONE SG INITIATING EVENT OCCURS	1.92E-01	IEV-LMFW1
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO

Table 50-21 (Sheet 5 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
28	2.96E-08	0.4	RCS LEAK INITIATING EVENT OCCURS	6.20E-03	IEV-RCSLK
			CCF OF TANK LEVEL TRANSMITTERS	4.78E-04	IWX-XMTR
			OPER. FAILS TO ACT. SUMP RECIRC GIVEN IRW LEVEL SIGNAL FAILURE	1.00E-02	REN-MAN04
29	2.95E-08	0.4	SMALL LOCA INITIATING EVENT OCCURS	5.00E-04	IEV-SLOCA
			CCF OF 2 SQUIB VALVES TO OPERATE	5.90E-05	ADX-EV-SA2
30	2.59E-08	0.35	LOSS OF CONDENSER INITIATING EVENT OCCURS	1.12E-01	IEV-LCOND
			ANY SECOND. SIDE RELIEF VALVE FAILS TO CLOSE (2 SV + PORV)	2.10E-02	OTH-SLSOV1
			CCF OF PMS ESF OUTPUT LOGIC SOFTWARE	1.10E-05	CCX-PMXMOD1-SW
31	2.57E-08	0.35	MEDIUM LOCA INITIATING EVENT OCCURS	4.36E-04	IEV-MLOCA
			CCF OF 2 SQUIB VALVES TO OPERATE	5.90E-05	ADX-EV-SA2
32	2.23E-08	0.3	LOSS OF CCW/SW INITIATING EVENT OCCURS	1.44E-01	IEV-LCCW
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO
33	2.16E-08	0.29	LOSS OF RSC FLOW INITIATING EVENT OCCURS	1.80E-02	IEV-LRCS
			SOFTWARE CCF OF ALL CARDS	1.20E-06	CCX-SFTW
34	2.03E-08	0.27	LOSS OF CONDENSER INITIATING EVENT OCCURS	1.12E-01	IEV-LCOND
			ANY SECOND. SIDE RELIEF VALVE FAILS TO CLOSE (2 SV + PORV)	2.10E-02	OTH-SLSOV1
			CCF OF EPO BOARDS IN PMS	8.62E-06	CCX-EP-SAM

Table 50-21 (Sheet 6 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
35	2.01E-08	0.27	TRANSIENT WITH MFW INITIATING EVENT OCCURS	1.40E+00	IEV-TRANS
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			DUE TO CCF OF 4TH STAGE ADS SQUIB VALVES TO OPERATE	3.00E-05	ADX-EV-SA
36	2.01E-08	0.27	TRANSIENT WITH MFW INITIATING EVENT OCCURS	1.40E+00	IEV-TRANS
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			CCF OF 4 GRAVITY INJECTION CVs	3.00E-05	IWX-CV-AO
37	1.74E-08	0.23	TRANSIENT WITH MFW INITIATING EVENT OCCURS	1.40E+00	IEV-TRANS
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			CCF OF 4 GRAVITY INJECTION & 2 RECIRCULATION SQUIB VALVES	2.60E-05	IWX-EV-SA
38	1.73E-08	0.23	LOSS OF CONDENSER INITIATING EVENT OCCURS	1.12E-01	IEV-LCOND
			CCF OF SAFETY PT LT CONTINUOSLY INTERFACING HIGH PRESSURE	4.78E-04	CCX-XMTR
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO
39	1.73E-08	0.23	LOSS OF CONDENSER INITIATING EVENT OCCURS	1.12E-01	IEV-LCOND
			CCF NON-SAFETY TRANSMITTERS INTERFACING SYSTEM PRESSURE	4.78E-04	CCX-TRNSM
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO

Table 50-21 (Sheet 7 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
40	1.50E-08	0.2	SMALL LOCA INITIATING EVENT OCCURS	5.00E-04	IEV-SLOCA
			DUE TO CCF OF 4TH STAGE ADS SQUIB VALVES TO OPERATE	3.00E-05	ADX-EV-SA
41	1.50E-08	0.2	SMALL LOCA INITIATING EVENT OCCURS	5.00E-04	IEV-SLOCA
			CCF OF 4 GRAVITY INJECTION CVs	3.00E-05	IWX-CV-AO
42	1.33E-08	0.18	MAIN STEAM LINE STUCK-OPEN SV INITIATING EVENT OCCURS	1.21E-03	IEV-SLB-V
			CCF OF PMS ESF OUTPUT LOGIC SOFTWARE	1.10E-05	CCX-PMXMOD1-SW
43	1.31E-08	0.18	MEDIUM LOCA INITIATING EVENT OCCURS	4.36E-04	IEV-MLOCA
			CCF OF 4 GRAVITY INJECTION CVs	3.00E-05	IWX-CV-AO
44	1.31E-08	0.18	MEDIUM LOCA INITIATING EVENT OCCURS	4.36E-04	IEV-MLOCA
			DUE TO CCF OF 4TH STAGE ADS SQUIB VALVES TO OPERATE	3.00E-05	ADX-EV-SA
45	1.30E-08	0.18	SMALL LOCA INITIATING EVENT OCCURS	5.00E-04	IEV-SLOCA
			CCF OF 4 GRAVITY INJECTION & 2 RECIRCULATION SQUIB VALVES	2.60E-05	IWX-EV-SA
46	1.25E-08	0.17	SAFETY INJECTION LINE BREAK INITIATING EVENT OCCURS	2.12E-04	IEV-SI-LB
			CCF OF 2 SQUIB VALVES TO OPERATE	5.90E-05	ADX-EV-SA2
47	1.13E-08	0.15	MEDIUM LOCA INITIATING EVENT OCCURS	4.36E-04	IEV-MLOCA
			CCF OF 4 GRAVITY INJECTION & 2 RECIRCULATION SQUIB VALVES	2.60E-05	IWX-EV-SA

Table 50-21 (Sheet 8 of 8)

SENSITIVITY CASE 36 – TOP 50 CDF CUTSETS

Number	Cutset Prob.	Percent	Basic Event Name	Event Prob.	Identifier
48	1.04E-08	0.14	MAIN STEAM LINE STUCK-OPEN SV INITIATING EVENT OCCURS	1.21E-03	IEV-SLB-V
			CCF OF EPO BOARDS IN PMS	8.62E-06	CCX-EP-SAM
49	1.04E-08	0.14	LOSS OF MAIN FEEDWATER INITIATING EVENT OCCURS	3.35E-01	IEV-LMFW
			FAILURE OF PRHR DUE TO COMMON CAUSE OF AOVs	9.60E-05	PXX-AV-LA
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO
50	1.04E-08	0.14	LOSS OF MAIN FEEDWATER INITIATING EVENT OCCURS	3.35E-01	IEV-LMFW
			PXX-AV-LA1	9.60E-05	PXX-AV-LA1
			CCF OF 4 COMBINATIONS OF 3 STAGES #2 AND #3 MOVS	3.24E-04	ADX-MV3-GO

Table 50-22 (Sheet 1 of 13)

RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

IRISK, REV.0

RISK IMPORTANCE CALCULATIONS

Input Filename = cmtot out
Output Filename = cmtot.imp

CMF = 2.409E-07
Number of Basic Events = 599
Number of Cutsets = 19374

	BASIC EVENT ID	CUTSETS	BEV PROB Q	BIRN A	CMF0 B	CMF1	RINC	RDEC	RAW	RRW	FV
1	ACACV028GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	5.526E-06	9.688E-09	2.394E+01	1.042E+00	4.021E-02
2	ACACV029GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	5.526E-06	9.688E-09	2.394E+01	1.042E+00	4.021E-02
3	ACAOR001EB	7	7.200E-07	5.492E-06	2.409E-07	5.733E-06	5.492E-06	3.954E-12	2.380E+01	1.000E+00	1.641E-05
4	ACAOR001SP	95	7.270E-04	5.542E-06	2.369E-07	5.779E-06	5.538E-06	4.029E-09	2.399E+01	1.017E+00	1.672E-02
5	ACATK001AF	8	2.400E-06	5.505E-06	2.409E-07	5.746E-06	5.505E-06	1.321E-11	2.385E+01	1.000E+00	5.484E-05
6	ACBCV028GO	73	1.750E-03	5 230E-06	2 318E-07	5 462E-06	5.221E-06	9 153E-09	2.267E+01	1.039E+00	3.799E-02
7	ACBCV029GO	73	1.750E-03	5.230E-06	2.318E-07	5.462E-06	5.221E-06	9.153E-09	2.267E+01	1.039E+00	3.799E-02
8	ACBOR001EB	4	7.200E-07	5.228E-06	2.409E-07	5.469E-06	5.228E-06	3.764E-12	2.270E+01	1.000E+00	1.562E-05
9	ACBOR001SP	35	7.270E-04	5.237E-06	2.371E-07	5 474E-06	5.233E-06	3.807E-09	2.272E+01	1.016E+00	1.580E-02
10	ACBTK001AF	4	2.400E-06	5.228E-06	2.409E-07	5.469E-06	5.228E-06	1.255E-11	2.270E+01	1.000E+00	5.208E-05
11	ACX-CV-GO	179	5.100E-05	5.958E-05	2.379E-07	5.982E-05	5.957E-05	3.038E-09	2.483E+02	1.013E+00	1 261E-02
12	ACX-TK-AF	3	1.200E-07	5.918E-05	2.409E-07	5.942E-05	5.918E-05	7.102E-12	2.467E+02	1.000E+00	2.948E-05
13	AD1MOD05	6	5.640E-02	1.555E-12	2.409E-07	2.409E-07	1.467E-12	8.770E-14	1.000E+00	1.000E+00	3.640E-07
14	AD1MOD06	11	5.640E-02	1.251E-11	2.409E-07	2.409E-07	1.181E-11	7.057E-13	1.000E+00	1.000E+00	2.929E-06
15	AD2MOD01	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1 002E+00	1.000E+00	1.242E-04
16	AD2MOD02	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1.002E+00	1.000E+00	1.242E-04
17	AD3MOD03	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1.002E+00	1.000E+00	1.242E-04
18	AD3MOD04	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1.002E+00	1.000E+00	1.242E-04
19	AD4MOD07	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.834E-10	3.742E+00	1.002E+00	1.591E-03
20	AD4MOD07A	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	6.714E-13	1.003E+00	1.000E+00	2.787E-06
21	AD4MOD07C	42	8.760E-04	2.405E-09	2 409E-07	2.433E-07	2.402E-09	2.106E-12	1.010E+00	1 000E+00	8.743E-06
22	AD4MOD08	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.834E-10	3.742E+00	1.002E+00	1.591E-03
23	AD4MOD08B	16	8.760E-04	7.664E-10	2 409E-07	2.417E-07	7.658E-10	6 714E-13	1.003E+00	1 000E+00	2.787E-06
24	AD4MOD08D	42	8.760E-04	2.405E-09	2 409E-07	2 433E-07	2.402E-09	2 106E-12	1.010E+00	1.000E+00	8.743E-06
25	AD4MOD09	510	5.800E-04	6.610E-07	2 405E-07	9 015E-07	6 606E-07	3 834E-10	3.742E+00	1.002E+00	1.591E-03
26	AD4MOD09A	16	8.760E-04	7.664E-10	2.409E-07	2 417E-07	7.658E-10	6 714E-13	1.003E+00	1.000E+00	2.787E-06
27	AD4MOD09C	42	8.760E-04	2 405E-09	2.409E-07	2 433E-07	2.402E-09	2.106E-12	1.010E+00	1 000E+00	8.743E-06
28	AD4MOD10	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.834E-10	3.742E+00	1.002E+00	1.591E-03
29	AD4MOD10B	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	6.714E-13	1.003E+00	1.000E+00	2.787E-06
30	AD4MOD10D	42	8.760E-04	2 405E-09	2.409E-07	2.433E-07	2.402E-09	2.106E-12	1.010E+00	1 000E+00	8.743E-06
31	ADF-MAN01	374	5.000E-01	2.029E-09	2.399E-07	2.419E-07	1.015E-09	1.015E-09	1.004E+00	1.004E+00	4.212E-03

Table 50-22 (Sheet 2 of 13)

RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

32	ADN-MAN01	680	3.020E-03	7.843E-07	2.386E-07	1.023E-06	7.820E-07	2.369E-09	4.246E+00	1.010E+00	9.832E-03
33	ADN-MAN01C	13	5.000E-01	3.993E-09	2.389E-07	2.429E-07	1 996E-09	1 996E-09	1.008E+00	1.008E+00	8.287E-03
34	ADX-EV-SA	1678	3.000E-05	3.949E-04	2.291E-07	3.952E-04	3.949E-04	1.185E-08	1.640E+03	1 052E+00	4.918E-02
35	ADX-EV-SA2	1607	5.900E-05	3.898E-04	2.179E-07	3.900E-04	3.898E-04	2.300E-08	1.619E+03	1.106E+00	9.547E-02
36	ADX-MV-GO	75	7.480E-04	6.857E-08	2.409E-07	3.094E-07	6.852E-08	5.129E-11	1.284E+00	1.000E+00	2.129E-04
37	ADX-MV3-GO	2324	3.240E-04	1.033E-05	2.376E-07	1.056E-05	1.032E-05	3.346E-09	4.385E+01	1.014E+00	1.389E-02
38	ALL-IND-FAIL	63	1.000E-06	7.487E-06	2.409E-07	7.728E-06	7.487E-06	7.487E-12	3.208E+01	1.000E+00	3.108E-05
39	ATW-MAN01	6	3.300E-02	1.802E-11	2.409E-07	2.409E-07	1.743E-11	5.947E-13	1.000E+00	1.000E+00	2.468E-06
40	ATW-MAN01C	9	5.170E-01	5.922E-11	2.409E-07	2.409E-07	2.860E-11	3.062E-11	1.000E+00	1.000E+00	1.271E-04
41	ATW-MAN03	104	5.200E-02	7.075E-08	2.372E-07	3.080E-07	6.707E-08	3.679E-09	1.278E+00	1.016E+00	1.527E-02
42	ATW-MAN04	26	5.200E-02	2.974E-10	2.409E-07	2.412E-07	2.819E-10	1.547E-11	1.001E+00	1.000E+00	6.419E-05
43	ATW-MAN04C	34	5.260E-01	6.695E-09	2.374E-07	2.441E-07	3.174E-09	3.522E-09	1.013E+00	1.015E+00	1.462E-02
44	ATW-MAN05	5	5.200E-03	1.369E-07	2.402E-07	3.771E-07	1.362E-07	7.118E-10	1.565E+00	1.003E+00	2.954E-03
45	ATW-MAN06	1	5.200E-03	2.173E-12	2.409E-07	2 409E-07	2.162E-12	1.130E-14	1.000E+00	1.000E+00	4.690E-08
46	ATW-MAN06C	1	5.000E-01	1.390E-09	2.402E-07	2.416E-07	6 950E-10	6.950E-10	1.003E+00	1.003E+00	2.885E-03
47	CA9EPCMPASA	10	1.710E-04	3.138E-09	2.409E-07	2.441E-07	3.137E-09	5.366E-13	1.013E+00	1.000E+00	2.227E-06
48	CABCM00BTM	20	1.500E-03	6.929E-10	2.409E-07	2.416E-07	6.919E-10	1.039E-12	1.003E+00	1.000E+00	4.314E-06
49	CANAV014LA	88	8.760E-03	7.581E-09	2.409E-07	2.484E-07	7.514E-09	6.641E-11	1.031E+00	1.000E+00	2.756E-04
50	CANCV015GC	415	2.450E-02	4.976E-09	2.408E-07	2.458E-07	4.854E-09	1.219E-10	1.020E+00	1.001E+00	5.060E-04
51	CANTP011RI	705	5.230E-03	1.770E-07	2.400E-07	4.170E-07	1.760E-07	9.255E-10	1.731E+00	1.004E+00	3.841E-03
52	CASMOD01	63	2.410E-03	4.384E-09	2.409E-07	2.453E-07	4.374E-09	1.057E-11	1.018E+00	1.000E+00	4.386E-05
53	CASMOD02	101	2.310E-02	9.210E-10	2.409E-07	2 418E-07	8.997E-10	2.128E-11	1.004E+00	1.000E+00	8.831E-05
54	CASMOD03	10	2.310E-02	6.295E-11	2.409E-07	2.410E-07	6.150E-11	1.454E-12	1.000E+00	1.000E+00	6.036E-06
55	CASPPRUPT	6	2.000E-06	1.198E-07	2.409E-07	3.607E-07	1.198E-07	2.396E-13	1.497E+00	1.000E+00	9.945E-07
56	CAX-CM-ER	58	1.200E-04	1.556E-07	2.409E-07	3.965E-07	1.556E-07	1.867E-11	1.646E+00	1.000E+00	7.749E-05
57	CCAMOD02	1	7.100E-03	1.352E-11	2.409E-07	2.409E-07	1.343E-11	9.600E-14	1.000E+00	1.000E+00	3.985E-07
58	CCAMOD03	26	6.140E-04	7.159E-09	2.409E-07	2.481E-07	7.155E-09	4.396E-12	1.030E+00	1.000E+00	1.825E-05
59	CCBMOD01	48	4.800E-02	2.259E-10	2.409E-07	2.411E-07	2.150E-10	1.084E-11	1.001E+00	1.000E+00	4.500E-05
60	CCX-AV-LA	133	6.200E-05	6.786E-05	2.367E-07	6.810E-05	6.786E-05	4.207E-09	2.827E+02	1.018E+00	1.746E-02
61	CCX-BC-SA	7	8.400E-06	2.451E-07	2.409E-07	4.860E-07	2.451E-07	2.059E-12	2.017E+00	1.000E+00	8.545E-06
62	CCX-BL-ER	2	1.200E-05	1.041E-07	2.409E-07	3.450E-07	1.041E-07	1.249E-12	1.432E+00	1.000E+00	5.184E-06
63	CCX-BY-PN	968	4.700E-05	3.777E-05	2.391E-07	3.801E-05	3.777E-05	1.775E-09	1.578E+02	1.007E+00	7.368E-03
64	CCX-BY-PN1	5	5.700E-05	4.589E-09	2.409E-07	2.455E-07	4.589E-09	2.616E-13	1.019E+00	1.000E+00	1.086E-06
65	CCX-EAI	10	1.270E-05	1.357E-07	2.409E-07	3.767E-07	1.357E-07	1.724E-12	1.563E+00	1.000E+00	7.155E-06
66	CCX-EAO	10	3.230E-06	1.361E-07	2.409E-07	3.770E-07	1.361E-07	4.396E-13	1.565E+00	1.000E+00	1.825E-06
67	CCX-EP-SA	46	8.620E-06	1.410E-06	2.409E-07	1.651E-06	1.410E-06	1.215E-11	6.853E+00	1.000E+00	5.045E-05
68	CCX-EP-SAM	298	8.620E-06	1.921E-04	2.393E-07	1.923E-04	1.921E-04	1.656E-09	7.983E+02	1.007E+00	6.873E-03
69	CCX-HE-AT	4	1.200E-06	1.080E-07	2.409E-07	3.489E-07	1.080E-07	1.296E-13	1.448E+00	1.000E+00	5.379E-07
70	CCX-IN-LOGIC-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.269E-05	6.896E-10	2.612E+02	1.003E+00	2.862E-03
71	CCX-INPUT-LOGIC	43	1.030E-04	6.635E-05	2.341E-07	6.659E-05	6 635E-05	6.834E-09	2.764E+02	1.029E+00	2.837E-02
72	CCX-IV-XR	160	2.400E-05	1.666E-06	2.409E-07	1.907E-06	1.666E-06	3.999E-11	7.915E+00	1.000E+00	1.660E-04
73	CCX-IV-XR1	6	2.400E-05	8.821E-09	2.409E-07	2.497E-07	8.821E-09	2.117E-13	1.037E+00	1.000E+00	8.787E-07
74	CCX-PL2MOD1	4	1.410E-04	3.546E-09	2.409E-07	2.445E-07	3.546E-09	5.000E-13	1.015E+00	1.000E+00	2.075E-06
75	CCX-PL2MOD5	41	6.980E-05	1.527E-07	2.409E-07	3.936E-07	1.527E-07	1.066E-11	1.634E+00	1.000E+00	4.425E-05
76	CCX-PL2MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1.564E+00	1.000E+00	6.204E-06
77	CCX-PL303	41	9.690E-05	1.757E-07	2.409E-07	4.166E-07	1.757E-07	1.702E-11	1.729E+00	1.000E+00	7.066E-05
78	CCX-PL3EH0	2	4.030E-06	1.040E-07	2.409E-07	3.449E-07	1.040E-07	4.190E-13	1.432E+00	1.000E+00	1.739E-06
79	CCX-PL3MOD1	59	1.410E-04	1.888E-07	2.409E-07	4.297E-07	1.888E-07	2.662E-11	1.784E+00	1.000E+00	1.105E-04

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RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

80	CCX-PL3MOD1-SW	2	1.100E-05	1.040E-07	2.409E-07	3.449E-07	1.040E-07	1.144E-12	1.432E+00	1.000E+00	4.748E-06
81	CCX-PL3MOD5	40	6.980E-05	1.511E-07	2.409E-07	3.920E-07	1.511E-07	1.055E-11	1.627E+00	1.000E+00	4.378E-05
82	CCX-PL3MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1.564E+00	1.000E+00	6.204E-06
83	CCX-PL403	47	9.690E-05	1.745E-07	2.409E-07	4.154E-07	1.745E-07	1.691E-11	1.724E+00	1.000E+00	7.019E-05
84	CCX-PL4EH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	6.480E-13	1.667E+00	1.000E+00	2.690E-06
85	CCX-PL4MOD1	49	1.410E-04	1.757E-07	2.409E-07	4.166E-07	1.757E-07	2.477E-11	1.729E+00	1.000E+00	1.028E-04
86	CCX-PL4MOD1-SW	19	1.100E-05	1.682E-07	2.409E-07	4.091E-07	1.682E-07	1.850E-12	1.698E+00	1.000E+00	7.680E-06
87	CCX-PL903	53	9.690E-05	1.551E-07	2.409E-07	3.960E-07	1.550E-07	1.502E-11	1.644E+00	1.000E+00	6.236E-05
88	CCX-PL9MOD1	61	1.410E-04	1.557E-07	2.409E-07	3.966E-07	1.557E-07	2.196E-11	1.646E+00	1.000E+00	9.115E-05
89	CCX-PL9MOD1-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1.564E+00	1.000E+00	6.204E-06
90	CCX-PLA03	4	9.690E-05	2.341E-09	2.409E-07	2.433E-07	2.340E-09	2.268E-13	1.010E+00	1.000E+00	9.414E-07
91	CCX-PLAMOD1	6	1.410E-04	2.527E-09	2.409E-07	2.434E-07	2.527E-09	3.563E-13	1.010E+00	1.000E+00	1.479E-06
92	CCX-PLB03	19	9.690E-05	3.260E-08	2.409E-07	2.735E-07	3.260E-08	3.159E-12	1.135E+00	1.000E+00	1.311E-05
93	CCX-PLBEH0	4	4.030E-06	2.779E-08	2.409E-07	2.687E-07	2.779E-08	1.120E-13	1.115E+00	1.000E+00	4.649E-07
94	CCX-PLBMOD1	23	1.410E-04	3.295E-08	2.409E-07	2.739E-07	3.295E-08	4.646E-12	1.137E+00	1.000E+00	1.929E-05
95	CCX-PLBMOD1-SW	6	1.100E-05	3.004E-08	2.409E-07	2.710E-07	3.004E-08	3.304E-13	1.125E+00	1.000E+00	1.371E-06
96	CCX-PLD03	1	9.690E-05	1.847E-09	2.409E-07	2.428E-07	1.847E-09	1.790E-13	1.008E+00	1.000E+00	7.430E-07
97	CCX-PLDMOD1	1	1.410E-04	1.851E-09	2.409E-07	2.428E-07	1.851E-09	2.610E-13	1.008E+00	1.000E+00	1.083E-06
98	CCX-PLMMOD4	31	4.980E-05	1.736E-07	2.409E-07	4.145E-07	1.736E-07	8.645E-12	1.720E+00	1.000E+00	3.588E-05
99	CCX-PLMMOD4-SW	20	1.100E-05	1.694E-07	2.409E-07	4.104E-07	1.694E-07	1.864E-12	1.703E+00	1.000E+00	7.736E-06
100	CCX-PLMOD3	54	1.030E-04	1.552E-07	2.409E-07	3.961E-07	1.552E-07	1.598E-11	1.644E+00	1.000E+00	6.634E-05
101	CCX-PLMOD3-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1.564E+00	1.000E+00	6.204E-06
102	CCX-PLSMOD6	84	2.530E-04	1.636E-07	2.409E-07	4.045E-07	1.636E-07	4.140E-11	1.679E+00	1.000E+00	1.718E-04
103	CCX-PLSMOD6-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1.564E+00	1.000E+00	6.204E-06
104	CCX-PM-ER	14	1.400E-05	2.430E-07	2.409E-07	4.839E-07	2.430E-07	3.402E-12	2.009E+00	1.000E+00	1.412E-05
105	CCX-PMA030	105	9.690E-05	2.354E-07	2.409E-07	4.763E-07	2.354E-07	2.281E-11	1.977E+00	1.000E+00	9.467E-05
106	CCX-PMAEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	6.480E-13	1.667E+00	1.000E+00	2.690E-06
107	CCX-PMAMOD1	124	1.410E-04	2.388E-07	2.409E-07	4.797E-07	2.387E-07	3.367E-11	1.991E+00	1.000E+00	1.397E-04
108	CCX-PMAMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1.168E+00	1.000E+00	5.099E-05
109	CCX-PMAMOD4	29	4.980E-05	1.716E-07	2.409E-07	4.125E-07	1.716E-07	8.544E-12	1.712E+00	1.000E+00	3.546E-05
110	CCX-PMB030	63	9.690E-05	9.547E-08	2.409E-07	3.364E-07	9.546E-08	9.251E-12	1.396E+00	1.000E+00	3.840E-05
111	CCX-PMBMOD1	75	1.410E-04	9.720E-08	2.409E-07	3.381E-07	9.719E-08	1.371E-11	1.403E+00	1.000E+00	5.689E-05
112	CCX-PMBMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1.168E+00	1.000E+00	5.099E-05
113	CCX-PMC030	43	9.690E-05	4.605E-08	2.409E-07	2.870E-07	4.605E-08	4.462E-12	1.191E+00	1.000E+00	1.852E-05
114	CCX-PMCMOD1	53	1.410E-04	4.766E-08	2.409E-07	2.886E-07	4.765E-08	6.720E-12	1.198E+00	1.000E+00	2.789E-05
115	CCX-PMCMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1.168E+00	1.000E+00	5.099E-05
116	CCX-PMD030	107	9.690E-05	2.639E-07	2.409E-07	5.048E-07	2.638E-07	2.557E-11	2.095E+00	1.000E+00	1.061E-04
117	CCX-PMDEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	6.480E-13	1.667E+00	1.000E+00	2.690E-06
118	CCX-PMDMOD1	119	1.410E-04	2.666E-07	2.409E-07	5.075E-07	2.665E-07	3.759E-11	2.106E+00	1.000E+00	1.560E-04
119	CCX-PMDMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1.168E+00	1.000E+00	5.099E-05
120	CCX-PMDMOD4	29	4.980E-05	1.895E-07	2.409E-07	4.304E-07	1.895E-07	9.435E-12	1.786E+00	1.000E+00	3.916E-05
121	CCX-PMS-HARDWARE	52	7.890E-05	1.179E-06	2.408E-07	1.420E-06	1.179E-06	9.302E-11	5.893E+00	1.000E+00	3.861E-04
122	CCX-PMXMOD1-SW	347	1.100E-05	1.926E-04	2.388E-07	1.929E-04	1.926E-04	2.119E-09	8.005E+02	1.009E+00	8.795E-03
123	CCX-PMXMOD2-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.269E-05	6.896E-10	2.612E+02	1.003E+00	2.862E-03
124	CCX-PMXMOD4-SW	54	1.100E-05	3.462E-06	2.409E-07	3.703E-06	3.462E-06	3.808E-11	1.537E+01	1.000E+00	1.581E-04
125	CCX-SFTW	262	1.200E-06	1.904E-03	2.386E-07	1.905E-03	1.904E-03	2.287E-09	7.906E+03	1.010E+00	9.494E-03
126	CCX-TRNSM	556	4.780E-04	8.126E-07	2.405E-07	1.053E-06	8.122E-07	3.884E-10	4.371E+00	1.002E+00	1.612E-03
127	CCX-TT-UF	139	1.170E-04	9.364E-07	2.408E-07	1.177E-06	9.363E-07	1.096E-10	4.886E+00	1.000E+00	4.547E-04

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128	CCX-VS-FA	17	3.840E-05	6.787E-07	2.409E-07	9.196E-07	6.787E-07	2.606E-11	3.817E+00	1.000E+00	1.082E-04
129	CCX-XMTR	579	4 780E-04	8.755E-06	2.367E-07	8.992E-06	8.751E-06	4.185E-09	3.732E+01	1.018E+00	1.737E-02
130	CCX-XMTR1	153	4.780E-04	3.124E-07	2.408E-07	5.531E-07	3.122E-07	1.493E-10	2.296E+00	1.001E+00	6.198E-04
131	CCX-XMTR195	280	4.780E-04	8.449E-06	2.369E-07	8.686E-06	8.445E-06	4.039E-09	3.605E+01	1.017E+00	1.676E-02
132	CDNTF01BRI	82	5.230E-03	7.195E-09	2.409E-07	2.481E-07	7.157E-09	3.763E-11	1.030E+00	1.000E+00	1.562E-04
133	CDNTK02AF	2	2.400E-06	2.083E-08	2.409E-07	2.618E-07	2.083E-08	5.000E-14	1.086E+00	1.000E+00	2.075E-07
134	CIAEP014SA	8	1.710E-04	7.147E-09	2.409E-07	2.481E-07	7.146E-09	1.222E-12	1 030E+00	1.000E+00	5.073E-06
135	CIB-MAN00	320	1.840E-03	1.288E-06	2.386E-07	1.527E-06	1.286E-06	2.370E-09	6 337E+00	1 010E+00	9.838E-03
136	CIB-MAN01	280	1.340E-03	5.540E-07	2.402E-07	7.941E-07	5.532E-07	7.423E-10	3.296E+00	1.003E+00	3.081E-03
137	CIX-AV-LA	194	7.700E-04	3.134E-07	2.407E-07	5.541E-07	3.132E-07	2.413E-10	2.300E+00	1.001E+00	1.002E-03
138	CLP-UNAVAILABLE	299	1.000E-02	1.876E-07	2.390E-07	4.267E-07	1.857E-07	1.876E-09	1.771E+00	1.008E+00	7.787E-03
139	CMA-CV	16	2.000E-06	2.293E-06	2.409E-07	2.534E-06	2.293E-06	4.585E-12	1.052E+01	1.000E+00	1.903E-05
140	CMA-PLUG	65	7.270E-04	2.319E-06	2.392E-07	2.559E-06	2.318E-06	1.686E-09	1.062E+01	1.007E+00	6.999E-03
141	CMAAV014LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	3.647E-09	5.809E-12	1.015E+00	1.000E+00	2.411E-05
142	CMAAV015LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	3.647E-09	5.809E-12	1.015E+00	1.000E+00	2.411E-05
143	CMAOR001EB	14	7.200E-07	2.280E-06	2.409E-07	2.521E-06	2.280E-06	1.642E-12	1.046E+01	1.000E+00	6.815E-06
144	CMATK002AF	17	2.400E-06	2.297E-06	2.409E-07	2.538E-06	2.297E-06	5.513E-12	1.053E+01	1.000E+00	2.288E-05
145	CMB-CV	1	2.000E-06	3.925E-08	2.409E-07	2.802E-07	3.925E-08	7.850E-14	1.163E+00	1.000E+00	3.258E-07
146	CMB-PLUG	11	7.270E-04	4.508E-08	2.409E-07	2.860E-07	4.505E-08	3.277E-11	1.187E+00	1.000E+00	1.360E-04
147	CMBAV014LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	6.229E-11	9.920E-14	1.000E+00	1.000E+00	4.118E-07
148	CMBAV015LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	6.229E-11	9.920E-14	1.000E+00	1.000E+00	4.118E-07
149	CMBOR001EB	1	7.200E-07	3.931E-08	2.409E-07	2.802E-07	3.931E-08	2.830E-14	1.163E+00	1.000E+00	1.175E-07
150	CMBTK002AF	1	2.400E-06	3.925E-08	2.409E-07	2.802E-07	3.925E-08	9.420E-14	1.163E+00	1.000E+00	3.910E-07
151	CMX-AV-LA	36	9.600E-05	2.273E-06	2.407E-07	2.514E-06	2.273E-06	2.182E-10	1.043E+01	1.001E+00	9.058E-04
152	CMX-CV-GO	93	5.100E-05	6.542E-05	2 376E-07	6.565E-05	6.541E-05	3.336E-09	2.725E+02	1.014E+00	1.385E-02
153	CMX-TK-AF	5	1.200E-07	6.115E-05	2.409E-07	6.140E-05	6.115E-05	7.339E-12	2.548E+02	1.000E+00	3.046E-05
154	CMX-VS-FA	75	3.840E-05	6.542E-05	2.384E-07	6.566E-05	6.542E-05	2.512E-09	2.725E+02	1.011E+00	1.043E-02
155	CONDVACUUM	35	1.000E-03	1.132E-08	2.409E-07	2.522E-07	1.131E-08	1.132E-11	1.047E+00	1.000E+00	4.698E-05
156	CV3EPCPASA	4	1.710E-04	3.901E-09	2.409E-07	2.448E-07	3.900E-09	6.670E-13	1.016E+00	1.000E+00	2.769E-06
157	CV3EPCPBSA	2	1.710E-04	1.778E-09	2.409E-07	2.427E-07	1.777E-09	3.040E-13	1.007E+00	1.000E+00	1.262E-06
158	CVAEP084SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	2.462E-10	4.210E-14	1.001E+00	1.000E+00	1.747E-07
159	CVBEP081SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	2.462E-10	4.210E-14	1.001E+00	1.000E+00	1.747E-07
160	CVBPM01BTM	68	2.190E-02	5.457E-09	2.408E-07	2.463E-07	5.338E-09	1.195E-10	1.022E+00	1.000E+00	4.961E-04
161	CVMOD01	75	2.210E-04	2.013E-07	2.409E-07	4.421E-07	2.012E-07	4 448E-11	1.835E+00	1.000E+00	1.846E-04
162	CVMOD02	13	1.410E-03	5.121E-09	2.409E-07	2.460E-07	5.113E-09	7 220E-12	1.021E+00	1.000E+00	2.997E-05
163	CVMOD03	44	1.120E-02	5.308E-09	2.409E-07	2.462E-07	5.249E-09	5.945E-11	1.022E+00	1.000E+00	2.468E-04
164	CVMOD04	111	7.370E-04	2.101E-07	2.408E-07	4.509E-07	2.099E-07	1.548E-10	1.871E+00	1.001E+00	6.427E-04
165	CVMOD05	163	2.880E-02	3.197E-09	2.408E-07	2.440E-07	3.105E-09	9.207E-11	1.013E+00	1.000E+00	3.821E-04
166	CVMOD07	148	2.710E-02	3.195E-09	2.408E-07	2 440E-07	3.109E-09	8.660E-11	1.013E+00	1.000E+00	3.594E-04
167	CVN-MAN00	33	3.100E-03	2.673E-07	2.401E-07	5.074E-07	2.664E-07	8.285E-10	2.106E+00	1.003E+00	3.439E-03
168	CVN-MAN02	2	1.580E-03	1.570E-11	2.409E-07	2.409E-07	1.567E-11	2.480E-14	1.000E+00	1.000E+00	1.029E-07
169	CVN-MAN03	11	1.070E-03	4.064E-09	2.409E-07	2.450E-07	4.060E-09	4.349E-12	1.017E+00	1.000E+00	1.805E-05
170	CVNMV090GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.280E-12	2.189E-13	1.000E+00	1.000E+00	9.086E-07
171	CVNMV091GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.280E-12	2.189E-13	1.000E+00	1.000E+00	9.086E-07
172	CVX-MV-GC2	4	4.400E-03	1.684E-11	2.409E-07	2.409E-07	1.677E-11	7.410E-14	1.000E+00	1.000E+00	3.076E-07
173	CVX-PM-ER	7	3.700E-05	1.284E-07	2.409E-07	3.693E-07	1.283E-07	4.749E-12	1.533E+00	1.000E+00	1.971E-05
174	DAS	322	1.000E-02	1.007E-07	2.399E-07	3.406E-07	9.967E-08	1.007E-09	1.414E+00	1.004E+00	4.179E-03
175	DUMP-MAN01	31	1.320E-03	4.945E-09	2.409E-07	2.459E-07	4.939E-09	6.528E-12	1.020E+00	1.000E+00	2.709E-05

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RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

176	EC0MOD01	1460	5.080E-03	9.180E-08	2.405E-07	3.323E-07	9.133E-08	4.663E-10	1 379E+00	1.002E+00	1.936E-03
177	EC1BS001LF	33	4.800E-06	3.745E-07	2.409E-07	6.155E-07	3.745E-07	1.798E-12	2.555E+00	1.000E+00	7.462E-06
178	EC1BS001TM	1288	2.700E-03	7.530E-07	2.389E-07	9 918E-07	7.509E-07	2.033E-09	4.117E+00	1.009E+00	8.438E-03
179	EC1BS011TM	329	2.700E-03	2.448E-08	2.409E-07	2.653E-07	2.441E-08	6.608E-11	1.101E+00	1.000E+00	2.743E-04
180	EC1BS012TM	1041	2.700E-03	6.818E-07	2.391E-07	9.209E-07	6.800E-07	1.841E-09	3.822E+00	1.008E+00	7.641E-03
181	EC1BS013TM	192	2.700E-03	2.534E-08	2.409E-07	2.662E-07	2.527E-08	6.842E-11	1.105E+00	1.000E+00	2.840E-04
182	EC1BS111TM	163	2.700E-03	4.704E-09	2.409E-07	2.456E-07	4.691E-09	1.270E-11	1.019E+00	1.000E+00	5.272E-05
183	EC1BS112TM	62	2.700E-03	1.090E-08	2.409E-07	2.518E-07	1.087E-08	2.942E-11	1.045E+00	1.000E+00	1.221E-04
184	EC1BS121TM	258	2.700E-03	8.138E-08	2.407E-07	3.221E-07	8.116E-08	2.197E-10	1.337E+00	1.001E+00	9.120E-04
185	EC1BS122TM	235	2 700E-03	1.879E-07	2.404E-07	4.283E-07	1.874E-07	5.073E-10	1.778E+00	1.002E+00	2.106E-03
186	EC1BS131TM	62	2 700E-03	1.090E-08	2.409E-07	2.518E-07	1.087E-08	2.942E-11	1.045E+00	1.000E+00	1.221E-04
187	EC1CB100RQ	2	1.440E-05	2 535E-09	2.409E-07	2.435E-07	2.535E-09	3.650E-14	1.011E+00	1.000E+00	1.515E-07
188	EC1CB100VO	133	4.200E-03	3.638E-09	2.409E-07	2.445E-07	3.623E-09	1.528E-11	1.015E+00	1.000E+00	6.342E-05
189	EC1MOD01	1	6.910E-05	1.505E-10	2.409E-07	2.411E-07	1 505E-10	1.040E-14	1.001E+00	1.000E+00	4.317E-08
190	EC1MOD11	4	4.800E-05	2.496E-09	2.409E-07	2.434E-07	2 496E-09	1.198E-13	1.010E+00	1.000E+00	4.973E-07
191	EC1MOD12	142	4 800E-05	5.589E-07	2.409E-07	7.998E-07	5 589E-07	2.683E-11	3.320E+00	1.000E+00	1.114E-04
192	EC1MOD121	8	1 680E-05	6.514E-08	2.409E-07	3.061E-07	6 514E-08	1.094E-12	1.270E+00	1.000E+00	4.543E-06
193	EC1MOD122	19	1.680E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	2.824E-12	1.698E+00	1.000E+00	1.172E-05
194	EC1MOD13	8	4 800E-05	4.612E-09	2.409E-07	2.455E-07	4.612E-09	2.214E-13	1.019E+00	1.000E+00	9.190E-07
195	EC2BS002LF	6	4 800E-06	6.304E-08	2.409E-07	3.040E-07	6.304E-08	3.026E-13	1.262E+00	1.000E+00	1.256E-06
196	EC2BS002TM	501	2.700E-03	1.173E-07	2.406E-07	3.579E-07	1.169E-07	3.166E-10	1.485E+00	1.001E+00	1 314E-03
197	EC2BS021TM	89	2.700E-03	1.033E-08	2.409E-07	2.512E-07	1 030E-08	2.789E-11	1.043E+00	1.000E+00	1.158E-04
198	EC2BS022TM	337	2.700E-03	1 048E-07	2.406E-07	3.454E-07	1.045E-07	2.829E-10	1.434E+00	1.001E+00	1.174E-03
199	EC2BS023TM	101	2.700E-03	1 795E-08	2.409E-07	2.588E-07	1.790E-08	4.846E-11	1.074E+00	1.000E+00	2.011E-04
200	EC2BS211TM	28	2.700E-03	3.860E-10	2.409E-07	2.413E-07	3.850E-10	1.042E-12	1.002E+00	1.000E+00	4.326E-06
201	EC2BS212TM	31	2.700E-03	8.884E-09	2.409E-07	2.498E-07	8.860E-09	2.399E-11	1.037E+00	1.000E+00	9.956E-05
202	EC2BS221TM	260	2.700E-03	9.117E-08	2.407E-07	3.318E-07	9.092E-08	2.462E-10	1.377E+00	1.001E+00	1.022E-03
203	EC2BS222TM	29	2 700E-03	1.121E-09	2.409E-07	2.420E-07	1.118E-09	3.026E-12	1.005E+00	1 000E+00	1.256E-05
204	EC2BS231TM	31	2 700E-03	8.884E-09	2.409E-07	2.498E-07	8.860E-09	2.399E-11	1.037E+00	1.000E+00	9.956E-05
205	EC2CB200VO	21	4.200E-03	7.334E-10	2.409E-07	2.417E-07	7.303E-10	3 080E-12	1.003E+00	1.000E+00	1.279E-05
206	EC2MOD22	18	4.800E-05	6.821E-08	2.409E-07	3.091E-07	6.821E-08	3.274E-12	1.283E+00	1.000E+00	1 359E-05
207	EC2MOD221	8	1 680E-05	6.514E-08	2.409E-07	3.061E-07	6.514E-08	1.094E-12	1.270E+00	1.000E+00	4.543E-06
208	EC2MOD23	8	4 800E-05	4.612E-09	2.409E-07	2.455E-07	4.612E-09	2.214E-13	1.019E+00	1 000E+00	9 190E-07
209	EC3BS003TM	1	2.700E-03	4.667E-11	2.409E-07	2.410E-07	4.654E-11	1.260E-13	1.000E+00	1.000E+00	5.230E-07
210	ECX-CB-GC	48	7.300E-04	1.227E-08	2.409E-07	2 532E-07	1.226E-08	8.957E-12	1.051E+00	1.000E+00	3.718E-05
211	ECX-CB-GO	34	4.200E-04	1.112E-08	2.409E-07	2 520E-07	1.111E-08	4.669E-12	1.046E+00	1.000E+00	1.938E-05
212	ED1BSDS1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	7.828E-13	1.677E+00	1.000E+00	3.249E-06
213	ED1BSDS1TM	137	3.000E-04	2.641E-07	2.408E-07	5.050E-07	2.640E-07	7.924E-11	2.096E+00	1.000E+00	3.289E-04
214	ED1MOD01	35	5.040E-04	1.000E-08	2.409E-07	2 509E-07	9.997E-09	5.041E-12	1.041E+00	1.000E+00	2.092E-05
215	ED1MOD02	2	1.920E-04	1.490E-10	2.409E-07	2.411E-07	1 489E-10	2.860E-14	1.001E+00	1 000E+00	1.187E-07
216	ED1MOD03	168	2.700E-03	2.142E-08	2.409E-07	2.623E-07	2 136E-08	5.783E-11	1.089E+00	1 000E+00	2.400E-04
217	ED1MOD06	8	3.480E-04	3.063E-10	2.409E-07	2.412E-07	3 062E-10	1.066E-13	1.001E+00	1.000E+00	4.425E-07
218	ED1MOD07	31	3.050E-04	8.922E-09	2 409E-07	2.498E-07	8 919E-09	2.721E-12	1.037E+00	1.000E+00	1.130E-05
219	ED1MOD11	119	3.170E-04	2.510E-07	2.408E-07	4.919E-07	2.510E-07	7.958E-11	2.042E+00	1.000E+00	3.303E-04
220	ED1MOD113	119	3 170E-04	2.510E-07	2.408E-07	4.919E-07	2.510E-07	7.958E-11	2.042E+00	1.000E+00	3.303E-04
221	ED1MOD13	31	3 170E-04	8.917E-09	2.409E-07	2.498E-07	8.914E-09	2.827E-12	1.037E+00	1.000E+00	1.173E-05
222	ED2BSDS1TM	52	3 000E-04	1.633E-08	2.409E-07	2.572E-07	1.632E-08	4.898E-12	1.068E+00	1.000E+00	2.033E-05
223	ED2MOD01	12	5.040E-04	8.750E-10	2.409E-07	2.418E-07	8.746E-10	4.410E-13	1.004E+00	1.000E+00	1.830E-06

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224	ED2MOD03	71	2.700E-03	3.370E-09	2.409E-07	2.443E-07	3.361E-09	9.100E-12	1.014E+00	1.000E+00	3.777E-05
225	ED2MOD06	2	3.480E-04	7.184E-11	2.409E-07	2.410E-07	7.181E-11	2.500E-14	1.000E+00	1.000E+00	1.038E-07
226	ED2MOD07	2	3.050E-04	7.213E-11	2.409E-07	2.410E-07	7.211E-11	2.200E-14	1.000E+00	1.000E+00	9.132E-08
227	ED2MOD11	48	3.170E-04	1.576E-08	2.409E-07	2.567E-07	1.576E-08	4.997E-12	1.065E+00	1.000E+00	2.074E-05
228	ED2MOD13	2	3.170E-04	7.192E-11	2.409E-07	2.410E-07	7.190E-11	2.280E-14	1.000E+00	1.000E+00	9.464E-08
229	ED3BSDS1TM	65	3.000E-04	1.742E-08	2.409E-07	2.583E-07	1.741E-08	5.226E-12	1.072E+00	1.000E+00	2.169E-05
230	ED3MOD01	102	5.040E-04	2.339E-08	2.409E-07	2.643E-07	2.338E-08	1.179E-11	1.097E+00	1.000E+00	4.893E-05
231	ED3MOD03	104	2.700E-03	3.426E-09	2.409E-07	2.443E-07	3.416E-09	9.249E-12	1.014E+00	1.000E+00	3.839E-05
232	ED3MOD04	73	2.190E-02	5.306E-10	2.409E-07	2.414E-07	5.190E-10	1.162E-11	1.002E+00	1.000E+00	4.824E-05
233	ED3MOD06	1	3.480E-04	2.819E-10	2.409E-07	2.412E-07	2.818E-10	9.810E-14	1.001E+00	1.000E+00	4.072E-07
234	ED3MOD07	387	3.050E-04	3.840E-06	2.397E-07	4.080E-06	3.839E-06	1.171E-09	1.693E+01	1.005E+00	4.861E-03
235	ED3MOD11	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	2.744E-13	1.004E+00	1.000E+00	1.139E-06
236	ED3MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	2.744E-13	1.004E+00	1.000E+00	1.139E-06
237	ED4BSDS1TM	190	3.000E-04	5.431E-08	2.409E-07	2.952E-07	5.429E-08	1.629E-11	1.225E+00	1.000E+00	6.762E-05
238	ED4MOD03	2	2.700E-03	9.111E-11	2.409E-07	2.410E-07	9.087E-11	2.460E-13	1.000E+00	1.000E+00	1.021E-06
239	ED4MOD11	194	3.170E-04	5.482E-08	2.409E-07	2.957E-07	5.481E-08	1.738E-11	1.227E+00	1.000E+00	7.214E-05
240	ED4MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	2.744E-13	1.004E+00	1.000E+00	1.139E-06
241	ED4MOD112	172	3.170E-04	5.050E-08	2.409E-07	2.914E-07	5.048E-08	1.601E-11	1.210E+00	1.000E+00	6.644E-05
242	FSMOD255A	14	5.800E-04	4.424E-09	2.409E-07	2.453E-07	4.422E-09	2.566E-12	1.018E+00	1.000E+00	1.065E-05
243	FWA-CV-EO	4	1.000E-04	5.930E-10	2.409E-07	2.415E-07	5.929E-10	5.930E-14	1.002E+00	1.000E+00	2.461E-07
244	FWACV012GO	8	2.190E-04	8.658E-10	2.409E-07	2.418E-07	8.656E-10	1.896E-13	1.004E+00	1.000E+00	7.870E-07
245	FWBCV012GO	8	2.190E-04	8.658E-10	2.409E-07	2.418E-07	8.656E-10	1.896E-13	1.004E+00	1.000E+00	7.870E-07
246	FWMOD013A	155	1.410E-02	1.590E-09	2.409E-07	2.425E-07	1 568E-09	2 242E-11	1.007E+00	1.000E+00	9.307E-05
247	FWMOD013B	135	1.410E-02	1.384E-09	2.409E-07	2.423E-07	1.365E-09	1.952E-11	1.006E+00	1.000E+00	8.101E-05
248	FWMOD03A	184	1.700E-02	1.626E-09	2.409E-07	2.425E-07	1.598E-09	2.764E-11	1.007E+00	1.000E+00	1.147E-04
249	FWMOD03B	154	1.700E-02	1.407E-09	2.409E-07	2.423E-07	1.383E-09	2.392E-11	1.006E+00	1.000E+00	9.927E-05
250	FWX-CV2-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	2.781E-08	1.780E-13	1.115E+00	1.000E+00	7.388E-07
251	FWX-MV2-GO	62	5.500E-04	3.900E-08	2.409E-07	2.799E-07	3.898E-08	2.145E-11	1.162E+00	1.000E+00	8.903E-05
252	FWX-PM2-ER	4	5.900E-06	2.783E-08	2.409E-07	2.688E-07	2.783E-08	1.642E-13	1.116E+00	1.000E+00	6.816E-07
253	FWX-PM2-FS	62	5.400E-04	3.900E-08	2.409E-07	2.799E-07	3.898E-08	2.106E-11	1.162E+00	1.000E+00	8.741E-05
254	HPM-MAN01	6	5.020E-04	2.298E-09	2.409E-07	2.432E-07	2.296E-09	1.153E-12	1.010E+00	1.000E+00	4.787E-06
255	IDABSDD1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	1.052E-06	5.049E-12	5.366E+00	1.000E+00	2.096E-05
256	IDABSDD1TM	239	3 000E-04	1.192E-06	2.406E-07	1.433E-06	1.192E-06	3.577E-10	5.947E+00	1.001E+00	1.485E-03
257	IDABSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	7.828E-13	1.677E+00	1.000E+00	3.249E-06
258	IDABSDK1TM	71	3.000E-04	2.037E-07	2.409E-07	4.445E-07	2.036E-07	6.110E-11	1.845E+00	1.000E+00	2.536E-04
259	IDABSDS1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	1.052E-06	5.049E-12	5.366E+00	1.000E+00	2.096E-05
260	IDABSDS1TM	264	3.000E-04	1.197E-06	2.406E-07	1.437E-06	1.196E-06	3.590E-10	5.965E+00	1.001E+00	1.490E-03
261	IDAFD003RQ	45	1 200E-05	1.080E-06	2.409E-07	1.321E-06	1.080E-06	1.296E-11	5.484E+00	1.000E+00	5.381E-05
262	IDAFD004RQ	19	1.200E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	2.017E-12	1.698E+00	1.000E+00	8.374E-06
263	IDAMOD04	53	3.170E-04	1.014E-08	2.409E-07	2.511E-07	1.014E-08	3.215E-12	1 042E+00	1.000E+00	1.335E-05
264	IDAMOD05	47	5.160E-04	5.203E-09	2.409E-07	2.461E-07	5.200E-09	2.685E-12	1.022E+00	1.000E+00	1.114E-05
265	IDAMOD07	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
266	IDAMOD08	6	3.170E-04	2.845E-10	2.409E-07	2.412E-07	2.845E-10	9.020E-14	1.001E+00	1.000E+00	3.744E-07
267	IDBBSDD1LF	46	4.800E-06	2.063E-06	2.409E-07	2.304E-06	2.063E-06	9.902E-12	9.563E+00	1.000E+00	4.110E-05
268	IDBBSDD1TM	581	3.000E-04	2.561E-06	2.402E-07	2.801E-06	2.560E-06	7.683E-10	1.163E+01	1.003E+00	3.189E-03
269	IDBBSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	7.828E-13	1.677E+00	1.000E+00	3.249E-06
270	IDBBSDK1TM	64	3.000E-04	1.803E-07	2.409E-07	4.212E-07	1.803E-07	5.410E-11	1.748E+00	1.000E+00	2.246E-04
271	IDBBSDS1LF	46	4.800E-06	2.063E-06	2.409E-07	2.304E-06	2.063E-06	9.902E-12	9.563E+00	1.000E+00	4.110E-05

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RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

272	IDBBSDS1TM	606	3.000E-04	2.566E-06	2.402E-07	2.806E-06	2.565E-06	7.697E-10	1.165E+01	1.003E+00	3.195E-03
273	IDBFD013RQ	83	1.200E-05	2.140E-06	2.409E-07	2.381E-06	2.140E-06	2.568E-11	9.882E+00	1.000E+00	1.066E-04
274	IDBFD014RQ	19	1.200E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	2.017E-12	1 698E+00	1.000E+00	8.374E-06
275	IDBMOD24	42	3.170E-04	9.625E-09	2 409E-07	2.505E-07	9.622E-09	3.051E-12	1.040E+00	1 000E+00	1.266E-05
276	IDBMOD25	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	4.834E-09	2.496E-12	1.020E+00	1.000E+00	1.036E-05
277	IDBMOD27	6	2.190E-02	3.973E-12	2 409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
278	IDBMOD36	2	3.170E-04	1.013E-10	2.409E-07	2.410E-07	1.012E-10	3.210E-14	1.000E+00	1.000E+00	1.332E-07
279	IDCBSDD1LF	16	4.800E-06	8.887E-07	2.409E-07	1.130E-06	8.887E-07	4.266E-12	4.689E+00	1.000E+00	1.771E-05
280	IDCBSDD1TM	308	3.000E-04	1.089E-06	2.406E-07	1.330E-06	1.089E-06	3 268E-10	5 520E+00	1.001E+00	1.356E-03
281	IDCBSDS1LF	16	4.800E-06	8.887E-07	2.409E-07	1.130E-06	8.887E-07	4.266E-12	4 689E+00	1 000E+00	1.771E-05
282	IDCBSDS1TM	333	3.000E-04	1.094E-06	2.406E-07	1.334E-06	1.093E-06	3.281E-10	5.538E+00	1.001E+00	1 362E-03
283	IDCFD007RQ	35	1.200E-05	9.257E-07	2.409E-07	1.167E-06	9.257E-07	1.111E-11	4.842E+00	1.000E+00	4.611E-05
284	IDCMOD28	42	3.170E-04	9.625E-09	2.409E-07	2.505E-07	9.622E-09	3.051E-12	1.040E+00	1.000E+00	1.266E-05
285	IDCMOD29	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	4.834E-09	2.496E-12	1.020E+00	1.000E+00	1.036E-05
286	IDCMOD31	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
287	IDCMOD37	2	3.170E-04	1.013E-10	2.409E-07	2.410E-07	1.012E-10	3.210E-14	1.000E+00	1.000E+00	1.332E-07
288	IDDBSDD1LF	31	4.800E-06	1.900E-06	2.409E-07	2.141E-06	1.900E-06	9.119E-12	8.886E+00	1.000E+00	3.785E-05
289	IDDBSDD1TM	207	3.000E-04	2.053E-06	2.403E-07	2.293E-06	2.052E-06	6.159E-10	9 519E+00	1.003E+00	2 557E-03
290	IDDBSDS1LF	31	4.800E-06	1.900E-06	2 409E-07	2.141E-06	1.900E-06	9.119E-12	8.886E+00	1 000E+00	3.785E-05
291	IDDBSDS1TM	253	3.000E-04	2.058E-06	2.403E-07	2.299E-06	2.058E-06	6.175E-10	9.542E+00	1 003E+00	2.563E-03
292	IDDFD019RQ	52	1.200E-05	1.955E-06	2.409E-07	2.196E-06	1.955E-06	2.346E-11	9.116E+00	1 000E+00	9.739E-05
293	IDDMOD32	67	3.170E-04	1.081E-08	2.409E-07	2 517E-07	1.081E-08	3.428E-12	1.045E+00	1.000E+00	1.423E-05
294	IDDMOD33	63	5.160E-04	5.936E-09	2.409E-07	2.469E-07	5.933E-09	3.063E-12	1.025E+00	1.000E+00	1.271E-05
295	IDDMOD35	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
296	IDDMOD38	6	3.170E-04	2.845E-10	2.409E-07	2.412E-07	2.845E-10	9.020E-14	1.001E+00	1.000E+00	3.744E-07
297	IEV-ATW-S	55	1.480E-02	7.475E-09	2 408E-07	2.483E-07	7.364E-09	1.106E-10	1.031E+00	1.000E+00	4.592E-04
298	IEV-ATW-T	13	1.170E+00	6.086E-10	2.402E-07	2.408E-07	-1.035E-10	7.120E-10	9.996E-01	1.003E+00	2.955E-03
299	IEV-ATWS	136	4.810E-01	7.495E-09	2 373E-07	2.448E-07	3.890E-09	3.605E-09	1 016E+00	1.015E+00	1 496E-02
300	IEV-CMTLB	987	9.310E-05	3.954E-05	2.372E-07	3.978E-05	3.954E-05	3.682E-09	1.651E+02	1.016E+00	1.528E-02
301	IEV-ISLOC	1	5.000E-11	1.000E+00	2.409E-07	1.000E+00	1.000E+00	5.000E-11	4.151E+06	1.000E+00	2.075E-04
302	IEV-LCAS	417	3.480E-02	1.932E-08	2.402E-07	2.596E-07	1.865E-08	6.725E-10	1.077E+00	1.003E+00	2.791E-03
303	IEV-LCCW	690	1.440E-01	2.241E-09	2.406E-07	2.428E-07	1.919E-09	3.228E-10	1.008E+00	1.001E+00	1.340E-03
304	IEV-LCOND	858	1.120E-01	1.111E-08	2.397E-07	2.508E-07	9.862E-09	1.244E-09	1.041E+00	1.005E+00	5.163E-03
305	IEV-LLOCA	286	5.000E-06	8.958E-03	1.960E-07	8 958E-03	8.958E-03	4.496E-08	3.718E+04	1.229E+00	1.866E-01
306	IEV-LMFW	1334	3.350E-01	2.596E-09	2.401E-07	2.426E-07	1.726E-09	8 697E-10	1.007E+00	1.004E+00	3.610E-03
307	IEV-LMFW1	763	1.920E-01	2.359E-09	2.405E-07	2.428E-07	1.906E-09	4.528E-10	1.008E+00	1.002E+00	1.880E-03
308	IEV-LOSP	530	1.200E-01	7.981E-09	2.400E-07	2.479E-07	7.023E-09	9 577E-10	1.029E+00	1.004E+00	3.975E-03
309	IEV-LRCS	143	1.800E-02	1.957E-09	2 409E-07	2.428E-07	1.921E-09	3.522E-11	1.008E+00	1.000E+00	1.462E-04
310	IEV-MLOCA	1681	4.360E-04	3.696E-05	2 248E-07	3.718E-05	3.694E-05	1.611E-08	1.543E+02	1 072E+00	6.688E-02
311	IEV-POWEX	701	4.500E-03	3.687E-07	2.393E-07	6.080E-07	3.671E-07	1.659E-09	2.524E+00	1 007E+00	6.887E-03
312	IEV-PRSTR	317	1.340E-04	3.743E-06	2.404E-07	3 983E-06	3.742E-06	5.015E-10	1.653E+01	1.002E+00	2.082E-03
313	IEV-RCSLK	1526	6.200E-03	2.750E-07	2.392E-07	5.142E-07	2.733E-07	1.705E-09	2.134E+00	1.007E+00	7.078E-03
314	IEV-RV-RP	1	1.000E-08	1.000E+00	2.309E-07	1.000E+00	1.000E+00	1.000E-08	4.151E+06	1.043E+00	4.151E-02
315	IEV-SGTR	3076	3.880E-03	1.751E-06	2.341E-07	1.985E-06	1.744E-06	6 792E-09	8 238E+00	1.029E+00	2 819E-02
316	IEV-SI-LB	1160	2.120E-04	4.480E-04	1.459E-07	4.482E-04	4.479E-04	9.499E-08	1.860E+03	1.651E+00	3.943E-01
317	IEV-SLB-D	18	5.960E-04	1.535E-08	2.409E-07	2.563E-07	1.534E-08	9.150E-12	1.064E+00	1.000E+00	3.798E-05
318	IEV-SLB-U	160	3.720E-04	3.513E-07	2.408E-07	5.921E-07	3.512E-07	1.307E-10	2 458E+00	1.001E+00	5.425E-04
319	IEV-SLB-V	305	1.210E-03	5.010E-07	2.403E-07	7.414E-07	5.004E-07	6.063E-10	3 077E+00	1.003E+00	2 516E-03

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RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

320	IEV-SLOCA	1638	5.000E-04	3.616E-05	2.228E-07	3 638E-05	3.614E-05	1.808E-08	1.510E+02	1.081E+00	7 504E-02
321	IEV-SPADS	1078	5.400E-05	5.476E-04	2 113E-07	5.478E-04	5.475E-04	2.958E-08	2.274E+03	1.140E+00	1.228E-01
322	IEV-TRANS	1500	1.400E+00	2.203E-09	2.378E-07	2.400E-07	-8.814E-10	3.085E-09	9.963E-01	1.013E+00	1.280E-02
323	IRBEP123ASA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	2.332E-08	3.989E-12	1.097E+00	1.000E+00	1.656E-05
324	IRBEP123BSA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	2.332E-08	3.989E-12	1.097E+00	1.000E+00	1.656E-05
325	IRCEP118ASA	9	1.710E-04	2.852E-08	2.409E-07	2.694E-07	2.852E-08	4.877E-12	1.118E+00	1.000E+00	2.024E-05
326	IRDEP118BSA	9	1.710E-04	2.852E-08	2.409E-07	2 694E-07	2.852E-08	4.877E-12	1.118E+00	1.000E+00	2 024E-05
327	IRWMOD05	17	1.460E-03	1.000E-06	2.395E-07	1 240E-06	9.987E-07	1.460E-09	5.146E+00	1.006E+00	6.061E-03
328	IRWMOD06	21	1.460E-03	1.000E-06	2.395E-07	1.240E-06	9.989E-07	1.460E-09	5.146E+00	1.006E+00	6.062E-03
329	IRWMOD07	3	1.460E-03	5.295E-11	2.409E-07	2.410E-07	5.287E-11	7.730E-14	1 000E+00	1.000E+00	3.209E-07
330	IRWMOD08	7	1.460E-03	1.877E-10	2.409E-07	2.411E-07	1.875E-10	2.741E-13	1.001E+00	1.000E+00	1.138E-06
331	IRWMOD09	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	3.234E-08	4.728E-11	1.134E+00	1.000E+00	1.963E-04
332	IRWMOD10	71	1.460E-03	4.649E-09	2 409E-07	2.456E-07	4.643E-09	6.788E-12	1.019E+00	1.000E+00	2.818E-05
333	IRWMOD11	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	3.234E-08	4.728E-11	1.134E+00	1.000E+00	1.963E-04
334	IRWMOD12	71	1.460E-03	4.649E-09	2.409E-07	2.456E-07	4.643E-09	6.788E-12	1.019E+00	1.000E+00	2.818E-05
335	IWA-PLUG	68	2.400E-04	2.121E-04	1.900E-07	2.123E-04	2.121E-04	5.091E-08	8.813E+02	1.268E+00	2.113E-01
336	IWACV122AO	20	1.750E-03	9.997E-07	2.392E-07	1.239E-06	9.979E-07	1.749E-09	5.142E+00	1.007E+00	7.262E-03
337	IWACV124AO	26	1.750E-03	9.998E-07	2.392E-07	1.239E-06	9.981E-07	1.750E-09	5.143E+00	1.007E+00	7.263E-03
338	IWARS118BFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	3.183E-08	2.790E-11	1.132E+00	1.000E+00	1.158E-04
339	IWARS123BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	4.163E-11	3.650E-14	1.000E+00	1.000E+00	1.515E-07
340	IWB-PLUG	67	2.400E-04	3.961E-08	2.409E-07	2.805E-07	3.960E-08	9.506E-12	1.164E+00	1.000E+00	3.946E-05
341	IWBCV122AO	3	1.750E-03	5.297E-11	2.409E-07	2.410E-07	5.288E-11	9.270E-14	1.000E+00	1.000E+00	3.848E-07
342	IWBCV124AO	9	1.750E-03	2.011E-10	2.409E-07	2.411E-07	2.007E-10	3.519E-13	1.001E+00	1.000E+00	1.461E-06
343	IWBRS118AFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	3.183E-08	2.790E-11	1.132E+00	1.000E+00	1.158E-04
344	IWBRS123AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	9.992E-07	8.761E-10	5.148E+00	1.004E+00	3.636E-03
345	IWCRS120BFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	4.124E-09	3.616E-12	1.017E+00	1.000E+00	1.501E-05
346	IWCRS125BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	4 163E-11	3.650E-14	1.000E+00	1.000E+00	1.515E-07
347	IWDRS120AFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	4.124E-09	3.616E-12	1.017E+00	1.000E+00	1.501E-05
348	IWDRS125AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	9.992E-07	8.761E-10	5.148E+00	1.004E+00	3.636E-03
349	IWNTK001AF	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	1.677E-05	4.024E-11	7.060E+01	1.000E+00	1.670E-04
350	IWX-CV-AO	1617	3.000E-05	3.929E-04	2.291E-07	3.931E-04	3.929E-04	1.179E-08	1.632E+03	1.051E+00	4.893E-02
351	IWX-CV1-AO	1	5.400E-07	2.111E-04	2.408E-07	2.114E-04	2.111E-04	1.140E-10	8.773E+02	1.000E+00	4.732E-04
352	IWX-EV-SA	1686	2.600E-05	3.993E-04	2.305E-07	3.996E-04	3.993E-04	1.038E-08	1.658E+03	1.045E+00	4.310E-02
353	IWX-EV1-SA	1	5.800E-06	2.121E-04	2.397E-07	2.123E-04	2.121E-04	1.230E-09	8.812E+02	1.005E+00	5.105E-03
354	IWX-EV2-SA	7	5.800E-06	7.947E-08	2.409E-07	3.204E-07	7.947E-08	4.609E-13	1.330E+00	1.000E+00	1.913E-06
355	IWX-EV4-SA	59	5.800E-05	5.999E-08	2.409E-07	3.009E-07	5.998E-08	3.479E-12	1.249E+00	1.000E+00	1.444E-05
356	IWX-FL-GP	993	1.200E-05	1.797E-04	2.388E-07	1.799E-04	1.797E-04	2.156E-09	7.468E+02	1.009E+00	8.951E-03
357	IWX-XMTR	560	4.780E-04	1.495E-05	2.338E-07	1.518E-05	1.494E-05	7.146E-09	6.302E+01	1.031E+00	2.966E-02
358	LPM-MAN01	227	1.340E-03	3.085E-07	2.405E-07	5.490E-07	3.081E-07	4.134E-10	2.279E+00	1.002E+00	1.716E-03
359	LPM-MAN01C	5	5.000E-01	3.044E-09	2.394E-07	2.424E-07	1.522E-09	1.522E-09	1.006E+00	1.006E+00	6.317E-03
360	LPM-MAN02	282	3.300E-03	4.557E-07	2.394E-07	6.951E-07	4.542E-07	1.504E-09	2.885E+00	1.006E+00	6.242E-03
361	MDAS	799	1.000E-02	1.800E-07	2.391E-07	4.191E-07	1.782E-07	1.800E-09	1.740E+00	1.008E+00	7.471E-03
362	MSAEPSD1SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
363	MSAEPSD2SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
364	MSAEPSD3SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
365	MSAEPSD4SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
366	MSAEPSD5SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
367	MSAEPSD6SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06

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RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

368	MSAEPSD7SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3 426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
369	MSAEPSD8SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
370	MSHTP001RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	2.044E-08	1.074E-10	1.085E+00	1.000E+00	4.460E-04
371	MSHTP002RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	2 044E-08	1.074E-10	1.085E+00	1.000E+00	4.460E-04
372	MSMODV001	14	2.710E-02	1.201E-10	2.409E-07	2.410E-07	1.169E-10	3.255E-12	1 000E+00	1.000E+00	1.351E-05
373	MSMODV003	14	2.710E-02	1.201E-10	2.409E-07	2.410E-07	1.169E-10	3.255E-12	1.000E+00	1.000E+00	1.351E-05
374	MSX-AV2-FA	44	2.310E-03	5.315E-09	2 409E-07	2.462E-07	5.303E-09	1 228E-11	1.022E+00	1.000E+00	5.096E-05
375	MSX-AV4-FA	3	2.000E-04	3.430E-09	2.409E-07	2.443E-07	3.429E-09	6 860E-13	1.014E+00	1.000E+00	2.847E-06
376	OTH-BL	23	1.900E-01	9.931E-11	2.409E-07	2.410E-07	8.044E-11	1.887E-11	1.000E+00	1.000E+00	7.832E-05
377	OTH-MGSET	29	1.750E-03	5.281E-08	2.408E-07	2.936E-07	5.272E-08	9.242E-11	1.219E+00	1.000E+00	3.836E-04
378	OTH-PO	63	1.200E-04	3.078E-07	2.409E-07	5.487E-07	3.078E-07	3.694E-11	2.278E+00	1.000E+00	1.533E-04
379	OTH-PRES	52	2.000E-03	4.121E-08	2.408E-07	2.821E-07	4.113E-08	8 243E-11	1.171E+00	1.000E+00	3.421E-04
380	OTH-PRESU	15	2.000E-03	1.561E-08	2.409E-07	2.565E-07	1.557E-08	3.121E-11	1.065E+00	1.000E+00	1.295E-04
381	OTH-PRSOV	664	1.000E-02	1.653E-07	2.393E-07	4.046E-07	1.636E-07	1.653E-09	1.679E+00	1.007E+00	6.861E-03
382	OTH-R05	530	7.000E-01	1.368E-09	2.400E-07	2.413E-07	4.105E-10	9.577E-10	1.002E+00	1.004E+00	3.975E-03
383	OTH-SDMAN	96	7.700E-04	2.036E-07	2.408E-07	4.444E-07	2.035E-07	1.568E-10	1.845E+00	1.001E+00	6.508E-04
384	OTH-SGTR	989	1.000E-02	2.599E-07	2.383E-07	4 982E-07	2 573E-07	2.599E-09	2.068E+00	1.011E+00	1.079E-02
385	OTH-SGTR1	75	6.700E-03	1.196E-08	2.408E-07	2.528E-07	1.188E-08	8.014E-11	1.049E+00	1 000E+00	3.326E-04
386	OTH-SLSOV	321	1.100E-02	4.159E-08	2.405E-07	2.821E-07	4.113E-08	4.575E-10	1.171E+00	1.002E+00	1.899E-03
387	OTH-SLSOV1	557	2.100E-02	9.277E-08	2 390E-07	3.317E-07	9.082E-08	1.948E-09	1.377E+00	1.008E+00	8.086E-03
388	OTH-SLSOV2	97	1.000E-02	1.399E-08	2.408E-07	2.548E-07	1.385E-08	1.399E-10	1 057E+00	1.001E+00	5.807E-04
389	OTH-SLSOV3	511	5.400E-03	1.519E-08	2.408E-07	2.560E-07	1 510E-08	8.201E-11	1.063E+00	1.000E+00	3.404E-04
390	PCNHR001ML	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	1.677E-05	4.024E-11	7.060E+01	1.000E+00	1.670E-04
391	PL20301ASA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	3 817E-09	4.433E-12	1.016E+00	1.000E+00	1.840E-05
392	PL20301BSA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	3.817E-09	4.433E-12	1.016E+00	1.000E+00	1.840E-05
393	PL2MOD11	12	2.090E-03	4.127E-09	2.409E-07	2.450E-07	4.118E-09	8.625E-12	1.017E+00	1.000E+00	3.580E-05
394	PL2MOD51	16	8 740E-04	6.970E-10	2.409E-07	2.416E-07	6.964E-10	6.092E-13	1.003E+00	1.000E+00	2.529E-06
395	PL2MOD52	3	8.740E-04	5.684E-10	2.409E-07	2.415E-07	5.679E-10	4.968E-13	1.002E+00	1.000E+00	2.062E-06
396	PL30301ASA	12	1.160E-03	4.756E-09	2.409E-07	2.457E-07	4.751E-09	5 517E-12	1.020E+00	1.000E+00	2.290E-05
397	PL30301BSA	11	1.160E-03	4.670E-09	2.409E-07	2.456E-07	4.664E-09	5.417E-12	1.019E+00	1.000E+00	2.248E-05
398	PL30302ASA	2	1.160E-03	2.414E-10	2.409E-07	2.412E-07	2 411E-10	2.800E-13	1.001E+00	1.000E+00	1.162E-06
399	PL30302BSA	1	1.160E-03	1.552E-10	2.409E-07	2.411E-07	1.550E-10	1.800E-13	1.001E+00	1.000E+00	7.471E-07
400	PL3MOD11	20	2.090E-03	5.297E-09	2.409E-07	2.462E-07	5.286E-09	1.107E-11	1.022E+00	1.000E+00	4.595E-05
401	PL3MOD12	4	2 090E-03	3 895E-10	2.409E-07	2 413E-07	3.887E-10	8.140E-13	1.002E+00	1.000E+00	3.379E-06
402	PL3MOD51	24	8.740E-04	1 046E-09	2.409E-07	2.420E-07	1.045E-09	9.138E-13	1 004E+00	1.000E+00	3 793E-06
403	PL40301ASA	43	1.160E-03	1.319E-09	2.409E-07	2.422E-07	1.317E-09	1.530E-12	1.005E+00	1.000E+00	6.350E-06
404	PL40301BSA	35	1.160E-03	1.161E-09	2.409E-07	2.421E-07	1.160E-09	1.347E-12	1.005E+00	1 000E+00	5.591E-06
405	PL40302ASA	21	1.160E-03	4.944E-10	2.409E-07	2.414E-07	4.938E-10	5.735E-13	1.002E+00	1.000E+00	2.380E-06
406	PL40302BSA	13	1.160E-03	3.369E-10	2.409E-07	2.413E-07	3.365E-10	3 908E-13	1.001E+00	1 000E+00	1.622E-06
407	PL4MOD11	71	2 090E-03	1.604E-09	2.409E-07	2 425E-07	1.601E-09	3.353E-12	1.007E+00	1.000E+00	1.392E-05
408	PL4MOD12	41	2.090E-03	7.288E-10	2.409E-07	2.416E-07	7 272E-10	1.523E-12	1.003E+00	1.000E+00	6.322E-06
409	PL70302ASA	2	1.160E-03	5.026E-10	2.409E-07	2.414E-07	5.020E-10	5.830E-13	1.002E+00	1.000E+00	2.420E-06
410	PL70302BSA	2	1.160E-03	5.026E-10	2 409E-07	2.414E-07	5.020E-10	5.830E-13	1.002E+00	1.000E+00	2.420E-06
411	PL7MOD12	2	2.090E-03	5.029E-10	2.409E-07	2.414E-07	5.018E-10	1.051E-12	1.002E+00	1.000E+00	4.362E-06
412	PL90301ASA	32	1.160E-03	1.127E-09	2.409E-07	2.420E-07	1.126E-09	1 307E-12	1.005E+00	1.000E+00	5.427E-06
413	PL90301BSA	28	1.160E-03	1.002E-09	2.409E-07	2.419E-07	1.001E-09	1.162E-12	1.004E+00	1.000E+00	4.824E-06
414	PL90302ASA	16	1.160E-03	9.731E-10	2.409E-07	2.419E-07	9.720E-10	1.129E-12	1.004E+00	1.000E+00	4.685E-06
415	PL90302BSA	12	1 160E-03	8.479E-10	2 409E-07	2.418E-07	8.469E-10	9 836E-13	1.004E+00	1.000E+00	4.083E-06

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RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

416	PL9MOD11	46	2.090E-03	1.318E-09	2.409E-07	2.422E-07	1.315E-09	2.754E-12	1.005E+00	1.000E+00	1.143E-05
417	PL9MOD12	32	2 090E-03	1.220E-09	2.409E-07	2.421E-07	1.217E-09	2.550E-12	1.005E+00	1.000E+00	1.058E-05
418	PLA0302ASA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	7.509E-11	8.720E-14	1.000E+00	1.000E+00	3.619E-07
419	PLA0302BSA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	7.509E-11	8.720E-14	1.000E+00	1.000E+00	3.619E-07
420	PLAMOD12	4	2.090E-03	1.336E-10	2.409E-07	2.411E-07	1.333E-10	2.792E-13	1.001E+00	1.000E+00	1.159E-06
421	PLB0301ASA	16	1.160E-03	2.928E-10	2.409E-07	2.412E-07	2.924E-10	3.396E-13	1.001E+00	1.000E+00	1.410E-06
422	PLB0301BSA	14	1.160E-03	2.686E-10	2.409E-07	2.412E-07	2.683E-10	3.116E-13	1.001E+00	1.000E+00	1.293E-06
423	PLB0302ASA	4	1.160E-03	6.776E-11	2.409E-07	2.410E-07	6.768E-11	7.860E-14	1.000E+00	1.000E+00	3.262E-07
424	PLB0302BSA	2	1.160E-03	4.362E-11	2.409E-07	2.410E-07	4.357E-11	5.060E-14	1.000E+00	1.000E+00	2.100E-07
425	PLBMOD11	20	2.090E-03	3.319E-10	2.409E-07	2.413E-07	3.312E-10	6.936E-13	1 001E+00	1.000E+00	2.879E-06
426	PLBMOD12	8	2.090E-03	1.065E-10	2.409E-07	2.410E-07	1.063E-10	2.226E-13	1.000E+00	1.000E+00	9.240E-07
427	PLMMOD41	33	6.350E-04	7.247E-09	2.409E-07	2.482E-07	7.243E-09	4.602E-12	1.030E+00	1.000E+00	1.910E-05
428	PLMMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3.510E-11	2.230E-14	1.000E+00	1.000E+00	9.256E-08
429	PLSMOD61	26	3.460E-03	7.103E-10	2.409E-07	2.416E-07	7.078E-10	2.458E-12	1.003E+00	1.000E+00	1.020E-05
430	PLSMOD62	20	3.460E-03	6.649E-10	2.409E-07	2.416E-07	6.626E-10	2.300E-12	1.003E+00	1.000E+00	9.548E-06
431	PMA0301ASA	110	1.160E-03	6.475E-09	2.409E-07	2.474E-07	6.467E-09	7.511E-12	1.027E+00	1.000E+00	3.117E-05
432	PMA0301BSA	100	1.160E-03	6.289E-09	2.409E-07	2.472E-07	6.282E-09	7.296E-12	1.026E+00	1.000E+00	3.028E-05
433	PMA0302ASA	28	1.160E-03	6.935E-10	2.409E-07	2.416E-07	6.927E-10	8.045E-13	1.003E+00	1.000E+00	3.339E-06
434	PMA0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5.076E-10	5.895E-13	1.002E+00	1.000E+00	2.447E-06
435	PMAMOD11	190	2.090E-03	7.405E-09	2.409E-07	2.483E-07	7.389E-09	1.548E-11	1.031E+00	1.000E+00	6.424E-05
436	PMAMOD12	56	2.090E-03	9.911E-10	2.409E-07	2.419E-07	9.890E-10	2.071E-12	1.004E+00	1.000E+00	8.598E-06
437	PMAMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9.077E-05
438	PMAMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.096E-12	1.001E+00	1.000E+00	4.549E-06
439	PMAMOD31	46	5.020E-03	5.707E-09	2.409E-07	2.466E-07	5.679E-09	2.865E-11	1.024E+00	1.000E+00	1.189E-04
440	PMAMOD41	11	6.350E-04	4.176E-10	2.409E-07	2.413E-07	4.174E-10	2.652E-13	1.002E+00	1.000E+00	1.101E-06
441	PMAMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3.510E-11	2.230E-14	1.000E+00	1.000E+00	9.256E-08
442	PMAXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1.015E+00	1.000E+00	1.232E-06
443	PMB0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	5.171E-09	6.005E-12	1.021E+00	1.000E+00	2.492E-05
444	PMB0301BSA	58	1.160E-03	5.149E-09	2 409E-07	2.461E-07	5.143E-09	5.973E-12	1.021E+00	1.000E+00	2.479E-05
445	PMB0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.079E-10	2.414E-13	1.001E+00	1.000E+00	1.002E-06
446	PMB0302BSA	6	1.160E-03	1.803E-10	2.409E-07	2.411E-07	1.800E-10	2.091E-13	1.001E+00	1.000E+00	8.679E-07
447	PMBMOD11	112	2.090E-03	6.037E-09	2.409E-07	2.469E-07	6.024E-09	1.262E-11	1.025E+00	1.000E+00	5.237E-05
448	PMBMOD12	17	2.090E-03	3.157E-10	2.409E-07	2.412E-07	3.151E-10	6.599E-13	1.001E+00	1.000E+00	2.739E-06
449	PMBMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9.077E-05
450	PMBMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.096E-12	1.001E+00	1.000E+00	4.549E-06
451	PMBMOD32	46	5.020E-03	5.707E-09	2 409E-07	2.466E-07	5.679E-09	2.865E-11	1.024E+00	1.000E+00	1.189E-04
452	PMBXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1.015E+00	1.000E+00	1.232E-06
453	PMC0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	5.171E-09	6.005E-12	1.021E+00	1.000E+00	2.492E-05
454	PMC0301BSA	58	1.160E-03	5.149E-09	2.409E-07	2.461E-07	5.143E-09	5.973E-12	1.021E+00	1.000E+00	2.479E-05
455	PMC0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.079E-10	2.414E-13	1.001E+00	1.000E+00	1.002E-06
456	PMC0302BSA	6	1.160E-03	1.803E-10	2.409E-07	2.411E-07	1.800E-10	2.091E-13	1.001E+00	1.000E+00	8.679E-07
457	PMCMOD11	97	2.090E-03	5.729E-09	2.409E-07	2.466E-07	5.717E-09	1.197E-11	1.024E+00	1.000E+00	4.970E-05
458	PMCMOD12	14	2.090E-03	2.598E-10	2.409E-07	2.412E-07	2.593E-10	5.430E-13	1.001E+00	1.000E+00	2.254E-06
459	PMCMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9.077E-05
460	PMCMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.096E-12	1.001E+00	1.000E+00	4.549E-06
461	PMCMOD33	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	5.032E-09	2.539E-11	1.021E+00	1.000E+00	1.054E-04
462	PMCXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1.015E+00	1.000E+00	1.232E-06
463	PMD0301ASA	113	1.160E-03	6.897E-09	2.409E-07	2.478E-07	6.889E-09	8.001E-12	1.029E+00	1.000E+00	3.321E-05

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464	PMD0301BSA	103	1.160E-03	6.712E-09	2.409E-07	2.476E-07	6.704E-09	7.786E-12	1.028E+00	1.000E+00	3.232E-05
465	PMD0302ASA	28	1.160E-03	6.935E-10	2.409E-07	2.416E-07	6 927E-10	8.045E-13	1.003E+00	1.000E+00	3.339E-06
466	PMD0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5 076E-10	5.895E-13	1.002E+00	1.000E+00	2.447E-06
467	PMDMOD11	186	2.090E-03	7.809E-09	2.409E-07	2.487E-07	7.793E-09	1.632E-11	1.032E+00	1.000E+00	6.775E-05
468	PMDMOD12	53	2.090E-03	9.717E-10	2.409E-07	2.419E-07	9.697E-10	2.031E-12	1.004E+00	1.000E+00	8.430E-06
469	PMDMOD21	98	4.070E-03	5.373E-09	2 409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9 077E-05
470	PMDMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.096E-12	1.001E+00	1.000E+00	4 549E-06
471	PMDMOD34	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	5.032E-09	2.539E-11	1.021E+00	1.000E+00	1.054E-04
472	PMDMOD41	29	6.350E-04	1.183E-09	2.409E-07	2.421E-07	1.182E-09	7.510E-13	1.005E+00	1.000E+00	3.117E-06
473	PMDMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3.510E-11	2.230E-14	1.000E+00	1.000E+00	9.256E-08
474	PMDXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1 015E+00	1.000E+00	1.232E-06
475	PRAAV108LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.665E-08	2.908E-11	1.111E+00	1.000E+00	1.207E-04
476	PRAAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1.000E+00	4.853E-05
477	PRAAV130LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.665E-08	2.908E-11	1.111E+00	1.000E+00	1.207E-04
478	PRAAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1.000E+00	4.853E-05
479	PRAMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	3.416E-09	7.223E-12	1.014E+00	1.000E+00	2.998E-05
480	PRAMOD9	51	1.410E-02	4.007E-09	2.409E-07	2.449E-07	3.951E-09	5.650E-11	1.016E+00	1.000E+00	2 345E-04
481	PRBAV108LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2.641E-08	2.881E-11	1.110E+00	1 000E+00	1.196E-04
482	PRBAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1 000E+00	4.853E-05
483	PRBAV130LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2 641E-08	2.881E-11	1.110E+00	1.000E+00	1.196E-04
484	PRBAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1.000E+00	4.853E-05
485	PRBMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	3.416E-09	7.223E-12	1.014E+00	1 000E+00	2.998E-05
486	PRCEP101SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2.251E-09	3.850E-13	1.009E+00	1.000E+00	1.598E-06
487	PRCEP108SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2 251E-09	3.850E-13	1.009E+00	1.000E+00	1.598E-06
488	PRDEP108SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2.251E-09	3.850E-13	1.009E+00	1.000E+00	1.598E-06
489	PRI-MAN01	2	4.960E-04	2.250E-09	2 409E-07	2.432E-07	2.249E-09	1.116E-12	1.009E+00	1.000E+00	4.632E-06
490	PXX-AV-LA	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.860E-05	1.785E-09	7.818E+01	1.007E+00	7.410E-03
491	PXX-AV-LA1	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.860E-05	1.785E-09	7.818E+01	1.007E+00	7.410E-03
492	RC1CB051GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04
493	RC1CB052GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	3.079E-08	1.299E-10	1.128E+00	1.001E+00	5.391E-04
494	RC1CB053GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04
495	RC1CB054GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	3.079E-08	1.299E-10	1.128E+00	1 001E+00	5.391E-04
496	RC1CB061GO	186	4.200E-03	3.819E-08	2.408E-07	2 790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04
497	RC1CB062GO	146	4.200E-03	3.072E-08	2.408E-07	2 715E-07	3.059E-08	1.290E-10	1.127E+00	1 001E+00	5.355E-04
498	RC1CB063GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04
499	RC1CB064GO	146	4.200E-03	3.072E-08	2.408E-07	2.715E-07	3.059E-08	1.290E-10	1.127E+00	1.001E+00	5 355E-04
500	RCX-RB-FA	95	8.100E-06	4.578E-06	2.409E-07	4.819E-06	4 578E-06	3.708E-11	2.000E+01	1 000E+00	1.539E-04
501	REA-PLUG	232	2.400E-04	4.173E-07	2.408E-07	6.581E-07	4.172E-07	1.002E-10	2.732E+00	1.000E+00	4.157E-04
502	REACV119GO	79	1.750E-03	4.693E-09	2.409E-07	2.456E-07	4.685E-09	8.213E-12	1.019E+00	1.000E+00	3.409E-05
503	REB-PLUG	212	2.400E-04	4.090E-07	2.408E-07	6.498E-07	4 089E-07	9.816E-11	2.697E+00	1.000E+00	4.074E-04
504	REBCV119GO	79	1.750E-03	4.693E-09	2.409E-07	2 456E-07	4.685E-09	8.213E-12	1.019E+00	1.000E+00	3.409E-05
505	REC-MANDAS	381	1.160E-02	1.574E-07	2 391E-07	3.965E-07	1.555E-07	1.825E-09	1 646E+00	1.008E+00	7 577E-03
506	REC-MANDASC	723	5.060E-01	1.516E-08	2.333E-07	2.484E-07	7.487E-09	7.669E-09	1.031E+00	1.033E+00	3.183E-02
507	REG-MAN00	232	2.040E-01	2.560E-09	2.404E-07	2 430E-07	2.038E-09	5.223E-10	1.008E+00	1.002E+00	2.168E-03
508	REN-MAN04	495	1.000E-02	7.033E-07	2.339E-07	9.372E-07	6.962E-07	7.033E-09	3.890E+00	1.030E+00	2 919E-02
509	REX-FL-GP	849	1.200E-05	1.474E-03	2.232E-07	1.474E-03	1.474E-03	1.770E-08	6.119E+03	1.079E+00	7.346E-02
510	RHN-MAN01	168	2.900E-03	1.864E-07	2.404E-07	4.268E-07	1.859E-07	5.405E-10	1.771E+00	1.002E+00	2.244E-03
511	RN11MOD3	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02

Table 50-22 (Sheet 12 of 13)

RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

512	RN22MOD4	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02
513	RN23MOD5	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02
514	RN55MOD1	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02
515	RNAEP01ASA	19	1.710E-04	5.848E-09	2.409E-07	2.468E-07	5.847E-09	1.000E-12	1.024E+00	1.000E+00	4.151E-06
516	RNAEP01BSA	17	1.710E-04	5.699E-09	2.409E-07	2.466E-07	5.698E-09	9.745E-13	1.024E+00	1 000E+00	4.045E-06
517	RNAEP022SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	3.007E-11	1.730E+00	1.000E+00	1.248E-04
518	RNAMOD06	312	3.400E-02	7.420E-09	2.407E-07	2.481E-07	7.167E-09	2.523E-10	1.030E+00	1.001E+00	1.047E-03
519	RNAMOD09	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	8.958E-09	4.784E-10	1 037E+00	1.002E+00	1.986E-03
520	RNBEP011SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	3.007E-11	1.730E+00	1.000E+00	1.248E-04
521	RNBMOD07	199	3.400E-02	6.901E-09	2.407E-07	2.476E-07	6.667E-09	2.346E-10	1.028E+00	1.001E+00	9.739E-04
522	RNBMOD10	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	8.958E-09	4.784E-10	1.037E+00	1.002E+00	1 986E-03
523	RNDEP023SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	3.007E-11	1.730E+00	1.000E+00	1.248E-04
524	RNNCV013GO	142	1.750E-03	1.857E-07	2.406E-07	4.263E-07	1.853E-07	3.249E-10	1.769E+00	1.001E+00	1.349E-03
525	RNNCV056GO	61	2.190E-04	1.788E-07	2.409E-07	4.197E-07	1.788E-07	3.916E-11	1.742E+00	1.000E+00	1.625E-04
526	RNX-CV-GO	25	5.100E-05	1.699E-07	2.409E-07	4.108E-07	1.699E-07	8.664E-12	1.705E+00	1.000E+00	3.596E-05
527	RNX-KV-GO	92	6.100E-04	1.833E-07	2.408E-07	4.241E-07	1.832E-07	1.118E-10	1.760E+00	1.000E+00	4.640E-04
528	RNX-KV1-CO	207	4.900E-03	1.869E-07	2.400E-07	4.269E-07	1.860E-07	9.160E-10	1.772E+00	1.004E+00	3.802E-03
529	RNX-PM-ER	19	1.600E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	2.689E-12	1.698E+00	1.000E+00	1.116E-05
530	RNX-PM-FS	102	7.700E-04	1.838E-07	2.408E-07	4.246E-07	1.837E-07	1.415E-10	1.762E+00	1.001E+00	5.875E-04
531	RPTMOD01	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
532	RPTMOD02	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
533	RPTMOD03	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
534	RPTMOD04	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
535	RPTMOD05	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
536	RPTMOD06	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
537	RPTMOD07	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
538	RPTMOD08	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
539	RPX-CB-GO	426	4.200E-04	1.223E-05	2.358E-07	1.246E-05	1.222E-05	5.135E-09	5.172E+01	1.022E+00	2.131E-02
540	SFBEP013ASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
541	SFBEP013BSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
542	SFBEPSFPASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
543	SFBEPSFPBSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
544	SFNMV067GC	14	1.100E-02	3.182E-11	2.409E-07	2.410E-07	3.147E-11	3.500E-13	1.000E+00	1.000E+00	1.453E-06
545	SG2TF50ARI	18	5.230E-03	1.120E-09	2.409E-07	2.420E-07	1.114E-09	5.855E-12	1.005E+00	1.000E+00	2.430E-05
546	SGAAV040LA	2	1.090E-03	3.706E-11	2.409E-07	2.410E-07	3.702E-11	4.040E-14	1.000E+00	1.000E+00	1.677E-07
547	SGAOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	2.187E-10	1.590E-12	1.001E+00	1.000E+00	6.601E-06
548	SGATL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	2.027E-10	1.066E-12	1.001E+00	1.000E+00	4.423E-06
549	SGBAV040LA	276	1.090E-03	1.346E-07	2.408E-07	3.754E-07	1.345E-07	1.467E-10	1.558E+00	1.001E+00	6.091E-04
550	SGBAV057LA	1	1.090E-03	1.000E-11	2.409E-07	2.409E-07	9.989E-12	1.090E-14	1.000E+00	1.000E+00	4.524E-08
551	SGBAV074LA	79	8.760E-03	1.089E-09	2.409E-07	2.420E-07	1.080E-09	9.542E-12	1.004E+00	1.000E+00	3.961E-05
552	SGBAV075LA	79	8.760E-03	1.089E-09	2.409E-07	2.420E-07	1.080E-09	9.542E-12	1.004E+00	1.000E+00	3.961E-05
553	SGBAV250LA	1	8.760E-03	1.244E-12	2.409E-07	2.409E-07	1.233E-12	1.090E-14	1.000E+00	1.000E+00	4.524E-08
554	SGBCV058GC	1	2.450E-02	4.449E-13	2.409E-07	2.409E-07	4.340E-13	1.090E-14	1.000E+00	1.000E+00	4.524E-08
555	SGBOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	2.187E-10	1.590E-12	1.001E+00	1.000E+00	6.601E-06
556	SGBTL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	2.027E-10	1.066E-12	1.001E+00	1.000E+00	4.423E-06
557	SGX-AV-FA	4	6.300E-06	2.778E-08	2.409E-07	2.687E-07	2.778E-08	1.750E-13	1.115E+00	1.000E+00	7.264E-07
558	SGX-CV-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	2.781E-08	1.780E-13	1.115E+00	1.000E+00	7.388E-07
559	SGX-MV-RP	4	7.670E-06	2.780E-08	2.409E-07	2.687E-07	2.780E-08	2.132E-13	1.115E+00	1.000E+00	8.849E-07

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RISK IMPORTANCES SORTED BY BASIC EVENT IDENTIFICATION

560	SWAMOD03	44	6.340E-04	9.692E-09	2 409E-07	2.506E-07	9.686E-09	6.145E-12	1.040E+00	1.000E+00	2.550E-05
561	SWAMOD09T	82	2.520E-04	1.624E-07	2.409E-07	4.032E-07	1.623E-07	4.091E-11	1.674E+00	1.000E+00	1.698E-04
562	SWB-001TM	34	3.800E-02	2.149E-10	2.409E-07	2.411E-07	2.068E-10	8.168E-12	1.001E+00	1.000E+00	3.390E-05
563	SWBMOD02	31	2.440E-02	2.109E-10	2.409E-07	2.411E-07	2.057E-10	5.145E-12	1.001E+00	1.000E+00	2.136E-05
564	SWBMOD11P	6	1.410E-02	6.383E-11	2.409E-07	2.410E-07	6.293E-11	9.000E-13	1.000E+00	1.000E+00	3.736E-06
565	SWN-MAN03	55	4.000E-02	1.333E-09	2.409E-07	2.422E-07	1.280E-09	5.333E-11	1.005E+00	1.000E+00	2.214E-04
566	SWX-PM-ER	12	1.400E-05	1.391E-07	2.409E-07	3.800E-07	1.391E-07	1.947E-12	1.577E+00	1.000E+00	8.083E-06
567	TCBMOD01B	1	2.520E-02	5.000E-12	2.409E-07	2 409E-07	4.874E-12	1.260E-13	1.000E+00	1.000E+00	5.230E-07
568	VFIAV004	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	2.686E-12	1.001E+00	1.000E+00	1.115E-05
569	VFIAV010	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	2.686E-12	1.001E+00	1.000E+00	1.115E-05
570	VFOAV003	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3 039E-10	2.686E-12	1.001E+00	1 000E+00	1.115E-05
571	VFOAV009	8	8.760E-03	3.066E-10	2 409E-07	2.412E-07	3.039E-10	2.686E-12	1.001E+00	1.000E+00	1.115E-05
572	VFSFRAC	16	1.200E-01	4.476E-11	2.409E-07	2.410E-07	3.939E-11	5.371E-12	1.000E+00	1.000E+00	2.229E-05
573	VW2EPTRBSA	4	1.710E-04	3.556E-09	2.409E-07	2.445E-07	3.555E-09	6.080E-13	1.015E+00	1.000E+00	2.524E-06
574	VWAMOD01	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	5.756E-09	1.451E-12	1.024E+00	1.000E+00	6.023E-06
575	VWAMOD02	14	6.120E-04	7.732E-09	2.409E-07	2.486E-07	7.727E-09	4.732E-12	1.032E+00	1.000E+00	1.964E-05
576	VWAMOD03	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	5.756E-09	1.451E-12	1.024E+00	1.000E+00	6.023E-06
577	VWBMOD04	141	1.830E-02	9.910E-09	2.407E-07	2.506E-07	9.729E-09	1.814E-10	1.040E+00	1.001E+00	7.527E-04
578	VWBMOD05	158	2.190E-02	9.985E-09	2.407E-07	2.507E-07	9.766E-09	2.187E-10	1.041E+00	1.001E+00	9.076E-04
579	VWBMOD06	33	5.180E-03	8.939E-09	2.409E-07	2.498E-07	8.893E-09	4.630E-11	1.037E+00	1.000E+00	1.922E-04
580	VWN-MAN01	33	5.160E-03	8.947E-09	2.409E-07	2.498E-07	8.901E-09	4.617E-11	1 037E+00	1.000E+00	1.916E-04
581	VWX-RF-ER	2	1.200E-05	1.041E-07	2.409E-07	3.450E-07	1.041E-07	1.249E-12	1.432E+00	1.000E+00	5.184E-06
582	WLIAV004LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
583	WLIAV055LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
584	WLOAV006LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
585	WLOAV057LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
586	ZANMOD01	54	8.400E-05	2.733E-08	2.409E-07	2.682E-07	2.733E-08	2.296E-12	1.113E+00	1.000E+00	9.528E-06
587	ZANTR-2AHF	14	2.880E-05	1.233E-08	2.409E-07	2.532E-07	1.233E-08	3.550E-13	1.051E+00	1.000E+00	1.474E-06
588	ZO1DG001TM	762	4.600E-02	5.727E-09	2.407E-07	2.464E-07	5.463E-09	2.634E-10	1.023E+00	1.001E+00	1.093E-03
589	ZO1MOD01	439	2.020E-02	5.150E-09	2.408E-07	2.460E-07	5.046E-09	1.040E-10	1.021E+00	1.000E+00	4.318E-04
590	ZO1MOD03	2	1.000E-04	2.810E-10	2 409E-07	2.412E-07	2.810E-10	2.810E-14	1.001E+00	1.000E+00	1.166E-07
591	ZO1MOD04	47	1.250E-03	2.652E-09	2.409E-07	2.436E-07	2.649E-09	3.315E-12	1.011E+00	1.000E+00	1.376E-05
592	ZO2DG002TM	230	4.600E-02	1.468E-09	2 409E-07	2.423E-07	1.401E-09	6.755E-11	1.006E+00	1.000E+00	2 804E-04
593	ZO2MOD01	112	2.020E-02	1.236E-09	2 409E-07	2.421E-07	1.211E-09	2.496E-11	1.005E+00	1.000E+00	1 036E-04
594	ZO2MOD04	7	1.250E-03	4.053E-10	2.409E-07	2.413E-07	4.048E-10	5.066E-13	1.002E+00	1.000E+00	2.103E-06
595	ZOX-BL-ES	1	6.000E-05	1.867E-09	2.409E-07	2.428E-07	1.867E-09	1.120E-13	1.008E+00	1.000E+00	4.649E-07
596	ZOX-DG-DR	36	4.400E-04	1.115E-08	2.409E-07	2.521E-07	1.115E-08	4 908E-12	1.046E+00	1.000E+00	2.037E-05
597	ZOX-DG-DS	20	2.800E-04	7.319E-09	2.409E-07	2 482E-07	7 317E-09	2.049E-12	1 030E+00	1 000E+00	8.507E-06
598	ZOX-PD-ER	6	1.300E-04	4.850E-09	2.409E-07	2.458E-07	4.849E-09	6.305E-13	1.020E+00	1.000E+00	2.617E-06
599	ZOX-PD-ES	93	2.000E-03	1.404E-08	2.409E-07	2 549E-07	1.402E-08	2.809E-11	1.058E+00	1.000E+00	1.166E-04

CALCULATED CMF = 2.409204E-07

Table 50-23 (Sheet 1 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

SORTED BY RISK INCREASE IMPORTANCE

	BASIC EVENT ID	CUTSETS	BEV PROB. Q	BIRN A	CMF0 B	CMF1	RINC	RAW	WRINC %
1	IEV-ISLOC	1	5.000E-11	1.000E+00	2.409E-07	1.000E+00	1.000E+00	4.151E+06	4.151E+08
2	IEV-RV-RP	1	1.000E-08	1.000E+00	2.309E-07	1.000E+00	1.000E+00	4.151E+06	4.151E+08
3	IEV-LLOCA	286	5.000E-06	8.958E-03	1.960E-07	8.958E-03	8.958E-03	3.718E+04	3.718E+06
4	CCX-SFTW	262	1.200E-06	1.904E-03	2.386E-07	1.905E-03	1.904E-03	7.906E+03	7.905E+05
5	REX-FL-GP	849	1.200E-05	1.474E-03	2.232E-07	1.474E-03	1.474E-03	6.119E+03	6.118E+05
6	IEV-SPADS	1078	5.400E-05	5.476E-04	2.113E-07	5.478E-04	5.475E-04	2.274E+03	2.273E+05
7	IEV-SI-LB	1160	2.120E-04	4.480E-04	1.459E-07	4.482E-04	4.479E-04	1.860E+03	1.859E+05
8	IWX-EV-SA	1686	2.600E-05	3.993E-04	2.305E-07	3.996E-04	3.993E-04	1.658E+03	1.657E+05
9	ADX-EV-SA	1678	3.000E-05	3.949E-04	2.291E-07	3.952E-04	3.949E-04	1.640E+03	1.639E+05
10	IWX-CV-AO	1617	3.000E-05	3.929E-04	2.291E-07	3.931E-04	3.929E-04	1.632E+03	1.631E+05
11	ADX-EV-SA2	1607	5.900E-05	3.898E-04	2.179E-07	3.900E-04	3.898E-04	1.619E+03	1.618E+05
12	IWA-PLUG	68	2.400E-04	2.121E-04	1.900E-07	2.123E-04	2.121E-04	8.813E+02	8.803E+04
13	IWX-EV1-SA	1	5.800E-06	2.121E-04	2.397E-07	2.123E-04	2.121E-04	8.812E+02	8.802E+04
14	IWX-CV1-AO	1	5.400E-07	2.111E-04	2.408E-07	2.114E-04	2.111E-04	8.773E+02	8.763E+04
15	CCX-PMXMOD1-SW	347	1.100E-05	1.926E-04	2.388E-07	1.929E-04	1.926E-04	8.005E+02	7.995E+04
16	CCX-EP-SAM	298	8.620E-06	1.921E-04	2.393E-07	1.923E-04	1.921E-04	7.983E+02	7.973E+04
17	IWX-FL-GP	993	1.200E-05	1.797E-04	2.388E-07	1.799E-04	1.797E-04	7.468E+02	7.458E+04
18	CCX-AV-LA	133	6.200E-05	6.786E-05	2.367E-07	6.810E-05	6.786E-05	2.827E+02	2.817E+04
19	CCX-INPUT-LOGIC	43	1.030E-04	6.635E-05	2.341E-07	6.659E-05	6.635E-05	2.764E+02	2.754E+04
20	CMX-VS-FA	75	3.840E-05	6.542E-05	2.384E-07	6.566E-05	6.542E-05	2.725E+02	2.715E+04
21	CMX-CV-GO	93	5.100E-05	6.542E-05	2.376E-07	6.565E-05	6.541E-05	2.725E+02	2.715E+04
22	CCX-IN-LOGIC-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.269E-05	2.612E+02	2.602E+04
23	CCX-PMXMOD2-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.269E-05	2.612E+02	2.602E+04
24	CMX-TK-AF	5	1.200E-07	6.115E-05	2.409E-07	6.140E-05	6.115E-05	2.548E+02	2.538E+04
25	ACX-CV-GO	179	5.100E-05	5.958E-05	2.379E-07	5.982E-05	5.957E-05	2.483E+02	2.473E+04
26	ACX-TK-AF	3	1.200E-07	5.918E-05	2.409E-07	5.942E-05	5.918E-05	2.467E+02	2.457E+04
27	IEV-CMTLB	987	9.310E-05	3.954E-05	2.372E-07	3.978E-05	3.954E-05	1.651E+02	1.641E+04
28	CCX-BY-PN	968	4.700E-05	3.777E-05	2.391E-07	3.801E-05	3.777E-05	1.578E+02	1.568E+04
29	IEV-MLOCA	1681	4.360E-04	3.696E-05	2.248E-07	3.718E-05	3.694E-05	1.543E+02	1.533E+04
30	IEV-SLOCA	1638	5.000E-04	3.616E-05	2.228E-07	3.638E-05	3.614E-05	1.510E+02	1.500E+04
31	PXX-AV-LA	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.860E-05	7.818E+01	7.718E+03
32	PXX-AV-LA1	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.860E-05	7.818E+01	7.718E+03
33	PCNHR001ML	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	1.677E-05	7.060E+01	6.960E+03
34	IWNTK001AF	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	1.677E-05	7.060E+01	6.960E+03
35	IWX-XMTR	560	4.780E-04	1.495E-05	2.338E-07	1.518E-05	1.494E-05	6.302E+01	6.202E+03
36	RPX-CB-GO	426	4.200E-04	1.223E-05	2.358E-07	1.246E-05	1.222E-05	5.172E+01	5.072E+03

Table 50-23 (Sheet 2 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

37	ADX-MV3-GO	2324	3.240E-04	1.033E-05	2.376E-07	1.056E-05	1.032E-05	4.385E+01	4.285E+03
38	CCX-XMTR	579	4.780E-04	8.755E-06	2.367E-07	8.992E-06	8.751E-06	3.732E+01	3.632E+03
39	CCX-XMTR195	280	4.780E-04	8.449E-06	2.369E-07	8.686E-06	8.445E-06	3.605E+01	3.505E+03
40	ALL-IND-FAIL	63	1.000E-06	7.487E-06	2.409E-07	7.728E-06	7.487E-06	3.208E+01	3.108E+03
41	ACAOR001SP	95	7.270E-04	5.542E-06	2.369E-07	5.779E-06	5.538E-06	2.399E+01	2.299E+03
42	ACACV028GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	5.526E-06	2.394E+01	2.294E+03
43	ACACV029GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	5.526E-06	2.394E+01	2.294E+03
44	ACATK001AF	8	2.400E-06	5.505E-06	2.409E-07	5.746E-06	5.505E-06	2.385E+01	2.285E+03
45	ACAOR001EB	7	7.200E-07	5.492E-06	2.409E-07	5.733E-06	5.492E-06	2.380E+01	2.280E+03
46	ACBOR001SP	35	7.270E-04	5.237E-06	2.371E-07	5.474E-06	5.233E-06	2.272E+01	2.172E+03
47	ACBTK001AF	4	2.400E-06	5.228E-06	2.409E-07	5.469E-06	5.228E-06	2.270E+01	2.170E+03
48	ACBOR001EB	4	7.200E-07	5.228E-06	2.409E-07	5.469E-06	5.228E-06	2.270E+01	2.170E+03
49	ACBCV029GO	73	1.750E-03	5.230E-06	2.318E-07	5.462E-06	5.221E-06	2.267E+01	2.167E+03
50	ACBCV028GO	73	1.750E-03	5.230E-06	2.318E-07	5.462E-06	5.221E-06	2.267E+01	2.167E+03
51	RCX-RB-FA	95	8.100E-06	4.578E-06	2.409E-07	4.819E-06	4.578E-06	2.000E+01	1.900E+03
52	ED3MOD07	387	3.050E-04	3.840E-06	2.397E-07	4.080E-06	3.839E-06	1.693E+01	1.593E+03
53	IEV-PRSTR	317	1.340E-04	3.743E-06	2.404E-07	3.983E-06	3.742E-06	1.653E+01	1.553E+03
54	CCX-PMXMOD4-SW	54	1.100E-05	3.462E-06	2.409E-07	3.703E-06	3.462E-06	1.537E+01	1.437E+03
55	IDBBSDS1TM	606	3.000E-04	2.566E-06	2.402E-07	2.806E-06	2.565E-06	1.165E+01	1.065E+03
56	IDBBSDD1TM	581	3.000E-04	2.561E-06	2.402E-07	2.801E-06	2.560E-06	1.163E+01	1.063E+03
57	CMA-PLUG	65	7.270E-04	2.319E-06	2.392E-07	2.559E-06	2.318E-06	1.062E+01	9.620E+02
58	CMATK002AF	17	2.400E-06	2.297E-06	2.409E-07	2.538E-06	2.297E-06	1.053E+01	9.534E+02
59	CMA-CV	16	2.000E-06	2.293E-06	2.409E-07	2.534E-06	2.293E-06	1.052E+01	9.516E+02
60	CMAOR001EB	14	7.200E-07	2.280E-06	2.409E-07	2.521E-06	2.280E-06	1.046E+01	9.465E+02
61	CMX-AV-LA	36	9.600E-05	2.273E-06	2.407E-07	2.514E-06	2.273E-06	1.043E+01	9.434E+02
62	IDBFD013RQ	83	1.200E-05	2.140E-06	2.409E-07	2.381E-06	2.140E-06	9.882E+00	8.882E+02
63	IDBBSDS1LF	46	4.800E-06	2.063E-06	2.409E-07	2.304E-06	2.063E-06	9.563E+00	8.563E+02
64	IDBBSDD1LF	46	4.800E-06	2.063E-06	2.409E-07	2.304E-06	2.063E-06	9.563E+00	8.563E+02
65	IDDBSDS1TM	253	3.000E-04	2.058E-06	2.403E-07	2.299E-06	2.058E-06	9.542E+00	8.542E+02
66	IDDBSDD1TM	207	3.000E-04	2.053E-06	2.403E-07	2.293E-06	2.052E-06	9.519E+00	8.519E+02
67	IDDFD019RQ	52	1.200E-05	1.955E-06	2.409E-07	2.196E-06	1.955E-06	9.116E+00	8.116E+02
68	IDDBSDS1LF	31	4.800E-06	1.900E-06	2.409E-07	2.141E-06	1.900E-06	8.886E+00	7.886E+02
69	IDDBSDD1LF	31	4.800E-06	1.900E-06	2.409E-07	2.141E-06	1.900E-06	8.886E+00	7.886E+02
70	IEV-SGTR	3076	3.880E-03	1.751E-06	2.341E-07	1.985E-06	1.744E-06	8.238E+00	7.238E+02
71	CCX-IV-XR	160	2.400E-05	1.666E-06	2.409E-07	1.907E-06	1.666E-06	7.915E+00	6.915E+02
72	CCX-EP-SA	46	8.620E-06	1.410E-06	2.409E-07	1.651E-06	1.410E-06	6.853E+00	5.853E+02
73	CIB-MAN00	320	1.840E-03	1.288E-06	2.386E-07	1.527E-06	1.286E-06	6.337E+00	5.337E+02
74	IDABSDS1TM	264	3.000E-04	1.197E-06	2.406E-07	1.437E-06	1.196E-06	5.965E+00	4.965E+02
75	IDABSDD1TM	239	3.000E-04	1.192E-06	2.406E-07	1.433E-06	1.192E-06	5.947E+00	4.947E+02
76	CCX-PMS-HARDWARE	52	7.890E-05	1.179E-06	2.408E-07	1.420E-06	1.179E-06	5.893E+00	4.893E+02
77	IDCBSDS1TM	333	3.000E-04	1.094E-06	2.406E-07	1.334E-06	1.093E-06	5.538E+00	4.538E+02
78	IDCBSDD1TM	308	3.000E-04	1.089E-06	2.406E-07	1.330E-06	1.089E-06	5.520E+00	4.520E+02

Table 50-23 (Sheet 3 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

79	IDAFD003RQ	45	1.200E-05	1.080E-06	2.409E-07	1.321E-06	1.080E-06	5.484E+00	4.484E+02
80	IDABSDD1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	1.052E-06	5.366E+00	4.366E+02
81	IDABSDS1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	1.052E-06	5.366E+00	4.366E+02
82	IWBRS123AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	9.992E-07	5.148E+00	4.148E+02
83	IWDRS125AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	9.992E-07	5.148E+00	4.148E+02
84	IRWMOD06	21	1.460E-03	1.000E-06	2.395E-07	1.240E-06	9.989E-07	5.146E+00	4.146E+02
85	IRWMOD05	17	1.460E-03	1.000E-06	2.395E-07	1.240E-06	9.987E-07	5.146E+00	4.146E+02
86	IWACV124AO	26	1.750E-03	9.998E-07	2.392E-07	1.239E-06	9.981E-07	5.143E+00	4.143E+02
87	IWACV122AO	20	1.750E-03	9.997E-07	2.392E-07	1.239E-06	9.979E-07	5.142E+00	4.142E+02
88	CCX-TT-UF	139	1.170E-04	9.364E-07	2.408E-07	1.177E-06	9.363E-07	4.886E+00	3.886E+02
89	IDCFD007RQ	35	1.200E-05	9.257E-07	2.409E-07	1.167E-06	9.257E-07	4.842E+00	3.842E+02
90	IDCBSDS1LF	16	4.800E-06	8.887E-07	2.409E-07	1.130E-06	8.887E-07	4.689E+00	3.689E+02
91	IDCBSDD1LF	16	4.800E-06	8.887E-07	2.409E-07	1.130E-06	8.887E-07	4.689E+00	3.689E+02
92	CCX-TRNSM	556	4.780E-04	8.126E-07	2.405E-07	1.053E-06	8.122E-07	4.371E+00	3.371E+02
93	ADN-MAN01	680	3.020E-03	7.843E-07	2.386E-07	1.023E-06	7.820E-07	4.246E+00	3.246E+02
94	EC1BS001TM	1288	2.700E-03	7.530E-07	2.389E-07	9.918E-07	7.509E-07	4.117E+00	3.117E+02
95	REN-MAN04	495	1.000E-02	7.033E-07	2.339E-07	9.372E-07	6.962E-07	3.890E+00	2.890E+02
96	EC1BS012TM	1041	2.700E-03	6.818E-07	2.391E-07	9.209E-07	6.800E-07	3.822E+00	2.822E+02
97	CCX-VS-FA	17	3.840E-05	6.787E-07	2.409E-07	9.196E-07	6.787E-07	3.817E+00	2.817E+02
98	AD4MOD09	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.742E+00	2.742E+02
99	AD4MOD08	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.742E+00	2.742E+02
100	AD4MOD07	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.742E+00	2.742E+02
101	AD4MOD10	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.742E+00	2.742E+02
102	EC1MOD12	142	4.800E-05	5.589E-07	2.409E-07	7.998E-07	5.589E-07	3.320E+00	2.320E+02
103	CIB-MAN01	280	1.340E-03	5.540E-07	2.402E-07	7.941E-07	5.532E-07	3.296E+00	2.296E+02
104	IEV-SLB-V	305	1.210E-03	5.010E-07	2.403E-07	7.414E-07	5.004E-07	3.077E+00	2.077E+02
105	LPM-MAN02	282	3.300E-03	4.557E-07	2.394E-07	6.951E-07	4.542E-07	2.885E+00	1.885E+02
106	REA-PLUG	232	2.400E-04	4.173E-07	2.408E-07	6.581E-07	4.172E-07	2.732E+00	1.732E+02
107	REB-PLUG	212	2.400E-04	4.090E-07	2.408E-07	6.498E-07	4.089E-07	2.697E+00	1.697E+02
108	EC1BS001LF	33	4.800E-06	3.745E-07	2.409E-07	6.155E-07	3.745E-07	2.555E+00	1.555E+02
109	IEV-POWEX	701	4.500E-03	3.687E-07	2.393E-07	6.080E-07	3.671E-07	2.524E+00	1.524E+02
110	IEV-SLB-U	160	3.720E-04	3.513E-07	2.408E-07	5.921E-07	3.512E-07	2.458E+00	1.458E+02
111	CIX-AV-LA	194	7.700E-04	3.134E-07	2.407E-07	5.541E-07	3.132E-07	2.300E+00	1.300E+02
112	CCX-XMTR1	153	4.780E-04	3.124E-07	2.408E-07	5.531E-07	3.122E-07	2.296E+00	1.296E+02
113	LPM-MAN01	227	1.340E-03	3.085E-07	2.405E-07	5.490E-07	3.081E-07	2.279E+00	1.279E+02
114	OTH-PO	63	1.200E-04	3.078E-07	2.409E-07	5.487E-07	3.078E-07	2.278E+00	1.278E+02
115	IEV-RCSLK	1526	6.200E-03	2.750E-07	2.392E-07	5.142E-07	2.733E-07	2.134E+00	1.134E+02
116	CCX-PMDMOD1	119	1.410E-04	2.666E-07	2.409E-07	5.075E-07	2.665E-07	2.106E+00	1.106E+02
117	CVN-MAN00	33	3.100E-03	2.673E-07	2.401E-07	5.074E-07	2.664E-07	2.106E+00	1.106E+02
118	ED1BSDS1TM	137	3.000E-04	2.641E-07	2.408E-07	5.050E-07	2.640E-07	2.096E+00	1.096E+02
119	CCX-PMD030	107	9.690E-05	2.639E-07	2.409E-07	5.048E-07	2.638E-07	2.095E+00	1.095E+02
120	OTH-SGTR	989	1.000E-02	2.599E-07	2.383E-07	4.982E-07	2.573E-07	2.068E+00	1.068E+02

Table 50-23 (Sheet 4 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

121	ED1MOD113	119	3.170E-04	2.510E-07	2.408E-07	4.919E-07	2.510E-07	2.042E+00	1.042E+02
122	ED1MOD11	119	3.170E-04	2.510E-07	2.408E-07	4.919E-07	2.510E-07	2.042E+00	1.042E+02
123	CCX-BC-SA	7	8.400E-06	2.451E-07	2.409E-07	4.860E-07	2.451E-07	2.017E+00	1.017E+02
124	CCX-PM-ER	14	1.400E-05	2.430E-07	2.409E-07	4.839E-07	2.430E-07	2.009E+00	1.009E+02
125	CCX-PMAMOD1	124	1.410E-04	2.388E-07	2.409E-07	4.797E-07	2.387E-07	1.991E+00	9.909E+01
126	CCX-PMA030	105	9.690E-05	2.354E-07	2.409E-07	4.763E-07	2.354E-07	1.977E+00	9.769E+01
127	CVMOD04	111	7.370E-04	2.101E-07	2.408E-07	4.509E-07	2.099E-07	1.871E+00	8.714E+01
128	IDABSDK1TM	71	3.000E-04	2.037E-07	2.409E-07	4.445E-07	2.036E-07	1.845E+00	8.451E+01
129	OTH-SDMAN	96	7.700E-04	2.036E-07	2.408E-07	4.444E-07	2.035E-07	1.845E+00	8.445E+01
130	CVMOD01	75	2.210E-04	2.013E-07	2.409E-07	4.421E-07	2.012E-07	1.835E+00	8.352E+01
131	CCX-PMDMOD4	29	4.980E-05	1.895E-07	2.409E-07	4.304E-07	1.895E-07	1.786E+00	7.864E+01
132	CCX-PL3MOD1	59	1.410E-04	1.888E-07	2.409E-07	4.297E-07	1.888E-07	1.784E+00	7.836E+01
133	EC1BS122TM	235	2.700E-03	1.879E-07	2.404E-07	4.283E-07	1.874E-07	1.778E+00	7.778E+01
134	RNX-KV1-GO	207	4.900E-03	1.869E-07	2.400E-07	4.269E-07	1.860E-07	1.772E+00	7.721E+01
135	RHN-MAN01	168	2.900E-03	1.864E-07	2.404E-07	4.268E-07	1.859E-07	1.771E+00	7.714E+01
136	CLP-UNAVAILABLE	299	1.000E-02	1.876E-07	2.390E-07	4.267E-07	1.857E-07	1.771E+00	7.709E+01
137	RNNCV013GO	142	1.750E-03	1.857E-07	2.406E-07	4.263E-07	1.853E-07	1.769E+00	7.693E+01
138	RN11MOD3	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	1.769E+00	7.689E+01
139	RN22MOD4	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	1.769E+00	7.689E+01
140	RN23MOD5	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	1.769E+00	7.689E+01
141	RN55MOD1	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	1.769E+00	7.689E+01
142	RNX-PM-FS	102	7.700E-04	1.838E-07	2.408E-07	4.246E-07	1.837E-07	1.762E+00	7.624E+01
143	RNX-KV-GO	92	6.100E-04	1.833E-07	2.408E-07	4.241E-07	1.832E-07	1.760E+00	7.603E+01
144	IDBBSDK1TM	64	3.000E-04	1.803E-07	2.409E-07	4.212E-07	1.803E-07	1.748E+00	7.483E+01
145	RNNCV056GO	61	2.190E-04	1.788E-07	2.409E-07	4.197E-07	1.788E-07	1.742E+00	7.420E+01
146	MDAS	799	1.000E-02	1.800E-07	2.391E-07	4.191E-07	1.782E-07	1.740E+00	7.396E+01
147	CANTP011RI	705	5.230E-03	1.770E-07	2.400E-07	4.170E-07	1.760E-07	1.731E+00	7.307E+01
148	RNDEP023SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	1.730E+00	7.297E+01
149	RNBEP011SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	1.730E+00	7.297E+01
150	RNAEP022SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	1.730E+00	7.297E+01
151	CCX-PL303	41	9.690E-05	1.757E-07	2.409E-07	4.166E-07	1.757E-07	1.729E+00	7.291E+01
152	CCX-PL4MOD1	49	1.410E-04	1.757E-07	2.409E-07	4.166E-07	1.757E-07	1.729E+00	7.291E+01
153	CCX-PL403	47	9.690E-05	1.745E-07	2.409E-07	4.154E-07	1.745E-07	1.724E+00	7.243E+01
154	CCX-PLMMOD4	31	4.980E-05	1.736E-07	2.409E-07	4.145E-07	1.736E-07	1.720E+00	7.205E+01
155	CCX-PMAMOD4	29	4.980E-05	1.716E-07	2.409E-07	4.125E-07	1.716E-07	1.712E+00	7.121E+01
156	RNX-CV-GO	25	5.100E-05	1.699E-07	2.409E-07	4.108E-07	1.699E-07	1.705E+00	7.051E+01
157	CCX-PLMMOD4-SW	20	1.100E-05	1.694E-07	2.409E-07	4.104E-07	1.694E-07	1.703E+00	7.033E+01
158	CCX-PL4MOD1-SW	19	1.100E-05	1.682E-07	2.409E-07	4.091E-07	1.682E-07	1.698E+00	6.981E+01
159	IDAFD004RQ	19	1.200E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	1.698E+00	6.978E+01
160	IDBFD014RQ	19	1.200E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	1.698E+00	6.978E+01
161	EC1MOD122	19	1.680E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	1.698E+00	6.978E+01
162	RNX-PM-ER	19	1.600E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	1.698E+00	6.976E+01

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RISK IMPORTANCES SORTED BY RISK INCREASE

163	OTH-PRSOV	664	1.000E-02	1.653E-07	2.393E-07	4.046E-07	1.636E-07	1.679E+00	6.793E+01
164	CCX-PLSMOD6	84	2.530E-04	1.636E-07	2.409E-07	4.045E-07	1.636E-07	1.679E+00	6.791E+01
165	IDBBSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	1.677E+00	6.769E+01
166	IDABSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	1.677E+00	6.769E+01
167	ED1BSDS1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	1.677E+00	6.769E+01
168	SWAMOD09T	82	2.520E-04	1.624E-07	2.409E-07	4.032E-07	1.623E-07	1.674E+00	6.737E+01
169	CCX-PMAEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	1.667E+00	6.674E+01
170	CCX-PL4EH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	1.667E+00	6.674E+01
171	CCX-PMDEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	1.667E+00	6.674E+01
172	CCX-PL9MOD1	61	1.410E-04	1.557E-07	2.409E-07	3.966E-07	1.557E-07	1.646E+00	6.464E+01
173	CAX-CM-ER	58	1.200E-04	1.556E-07	2.409E-07	3.965E-07	1.556E-07	1.646E+00	6.457E+01
174	REC-MANDAS	381	1.160E-02	1.574E-07	2.391E-07	3.965E-07	1.555E-07	1.646E+00	6.456E+01
175	CCX-PLMOD3	54	1.030E-04	1.552E-07	2.409E-07	3.961E-07	1.552E-07	1.644E+00	6.440E+01
176	CCX-PL903	53	9.690E-05	1.551E-07	2.409E-07	3.960E-07	1.550E-07	1.644E+00	6.435E+01
177	CCX-PL2MOD5	41	6.980E-05	1.527E-07	2.409E-07	3.936E-07	1.527E-07	1.634E+00	6.338E+01
178	CCX-PL3MOD5	40	6.980E-05	1.511E-07	2.409E-07	3.920E-07	1.511E-07	1.627E+00	6.272E+01
179	SWX-PM-ER	12	1.400E-05	1.391E-07	2.409E-07	3.800E-07	1.391E-07	1.577E+00	5.774E+01
180	ATW-MAN05	5	5.200E-03	1.369E-07	2.402E-07	3.771E-07	1.362E-07	1.565E+00	5.652E+01
181	CCX-EAO	10	3.230E-06	1.361E-07	2.409E-07	3.770E-07	1.361E-07	1.565E+00	5.649E+01
182	CCX-PL2MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.564E+00	5.640E+01
183	CCX-PLMOD3-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.564E+00	5.640E+01
184	CCX-PL9MOD1-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.564E+00	5.640E+01
185	CCX-PL3MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.564E+00	5.640E+01
186	CCX-PLSMOD6-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.564E+00	5.640E+01
187	CCX-EAI	10	1.270E-05	1.357E-07	2.409E-07	3.767E-07	1.357E-07	1.563E+00	5.634E+01
188	SGBAV040LA	276	1.090E-03	1.346E-07	2.408E-07	3.754E-07	1.345E-07	1.558E+00	5.582E+01
189	CVX-PM-ER	7	3.700E-05	1.284E-07	2.409E-07	3.693E-07	1.283E-07	1.533E+00	5.327E+01
190	CASPPRUPT	6	2.000E-06	1.198E-07	2.409E-07	3.607E-07	1.198E-07	1.497E+00	4.973E+01
191	EC2BS002TM	501	2.700E-03	1.173E-07	2.406E-07	3.579E-07	1.169E-07	1.485E+00	4.854E+01
192	CCX-HE-AF	4	1.200E-06	1.080E-07	2.409E-07	3.489E-07	1.080E-07	1.448E+00	4.483E+01
193	EC2BS022TM	337	2.700E-03	1.048E-07	2.406E-07	3.454E-07	1.045E-07	1.434E+00	4.337E+01
194	CCX-BL-ER	2	1.200E-05	1.041E-07	2.409E-07	3.450E-07	1.041E-07	1.432E+00	4.320E+01
195	VWX-RF-ER	2	1.200E-05	1.041E-07	2.409E-07	3.450E-07	1.041E-07	1.432E+00	4.320E+01
196	CCX-PL3MOD1-SW	2	1.100E-05	1.040E-07	2.409E-07	3.449E-07	1.040E-07	1.432E+00	4.317E+01
197	CCX-PL3EH0	2	4.030E-06	1.040E-07	2.409E-07	3.449E-07	1.040E-07	1.432E+00	4.316E+01
198	DAS	322	1.000E-02	1.007E-07	2.399E-07	3.406E-07	9.967E-08	1.414E+00	4.137E+01
199	CCX-PMBMOD1	75	1.410E-04	9.720E-08	2.409E-07	3.381E-07	9.719E-08	1.403E+00	4.034E+01
200	CCX-PMB030	63	9.690E-05	9.547E-08	2.409E-07	3.364E-07	9.546E-08	1.396E+00	3.962E+01
201	EC0MOD01	1460	5.080E-03	9.180E-08	2.405E-07	3.323E-07	9.133E-08	1.379E+00	3.791E+01
202	EC2BS221TM	260	2.700E-03	9.117E-08	2.407E-07	3.318E-07	9.092E-08	1.377E+00	3.774E+01
203	OTH-SLSOV1	557	2.100E-02	9.277E-08	2.390E-07	3.317E-07	9.082E-08	1.377E+00	3.770E+01
204	EC1BS121TM	258	2.700E-03	8.138E-08	2.407E-07	3.221E-07	8.116E-08	1.337E+00	3.369E+01

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RISK IMPORTANCES SORTED BY RISK INCREASE

205	IWX-EV2-SA	7	5.800E-06	7.947E-08	2.409E-07	3.204E-07	7.947E-08	1.330E+00	3.298E+01
206	ADX-MV-GO	75	7.480E-04	6.857E-08	2.409E-07	3.094E-07	6.852E-08	1.284E+00	2.844E+01
207	EC2MOD22	18	4.800E-05	6.821E-08	2.409E-07	3.091E-07	6.821E-08	1.283E+00	2.831E+01
208	ATW-MAN03	104	5.200E-02	7.075E-08	2.372E-07	3.080E-07	6.707E-08	1.278E+00	2.784E+01
209	EC1MOD121	8	1.680E-05	6.514E-08	2.409E-07	3.061E-07	6.514E-08	1.270E+00	2.704E+01
210	EC2MOD221	8	1.680E-05	6.514E-08	2.409E-07	3.061E-07	6.514E-08	1.270E+00	2.704E+01
211	EC2BS002LF	6	4.800E-06	6.304E-08	2.409E-07	3.040E-07	6.304E-08	1.262E+00	2.617E+01
212	IWX-EV4-SA	59	5.800E-05	5.999E-08	2.409E-07	3.009E-07	5.998E-08	1.249E+00	2.490E+01
213	ED4MOD11	194	3.170E-04	5.482E-08	2.409E-07	2.957E-07	5.481E-08	1.227E+00	2.275E+01
214	ED4BSDS1TM	190	3.000E-04	5.431E-08	2.409E-07	2.952E-07	5.429E-08	1.225E+00	2.253E+01
215	OTH-MGSET	29	1.750E-03	5.281E-08	2.408E-07	2.936E-07	5.272E-08	1.219E+00	2.188E+01
216	ED4MOD112	172	3.170E-04	5.050E-08	2.409E-07	2.914E-07	5.048E-08	1.210E+00	2.095E+01
217	CCX-PMCMOD1	53	1.410E-04	4.766E-08	2.409E-07	2.886E-07	4.765E-08	1.198E+00	1.978E+01
218	CCX-PMC030	43	9.690E-05	4.605E-08	2.409E-07	2.870E-07	4.605E-08	1.191E+00	1.911E+01
219	CMB-PLUG	11	7.270E-04	4.508E-08	2.409E-07	2.860E-07	4.505E-08	1.187E+00	1.870E+01
220	OTH-SLSOV	321	1.100E-02	4.159E-08	2.405E-07	2.821E-07	4.113E-08	1.171E+00	1.707E+01
221	OTH-PRES	52	2.000E-03	4.121E-08	2.408E-07	2.821E-07	4.113E-08	1.171E+00	1.707E+01
222	CCX-PMDMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.168E+00	1.677E+01
223	CCX-PMAMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.168E+00	1.677E+01
224	CCX-PMCMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.168E+00	1.677E+01
225	CCX-PMBMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.168E+00	1.677E+01
226	IWB-PLUG	67	2.400E-04	3.961E-08	2.409E-07	2.805E-07	3.960E-08	1.164E+00	1.644E+01
227	CMB0R001EB	1	7.200E-07	3.931E-08	2.409E-07	2.802E-07	3.931E-08	1.163E+00	1.631E+01
228	CMB-CV	1	2.000E-06	3.925E-08	2.409E-07	2.802E-07	3.925E-08	1.163E+00	1.629E+01
229	CMBTK002AF	1	2.400E-06	3.925E-08	2.409E-07	2.802E-07	3.925E-08	1.163E+00	1.629E+01
230	FWX-MV2-GO	62	5.500E-04	3.900E-08	2.409E-07	2.799E-07	3.898E-08	1.162E+00	1.618E+01
231	FWX-PM2-FS	62	5.400E-04	3.900E-08	2.409E-07	2.799E-07	3.898E-08	1.162E+00	1.618E+01
232	RC1CB063GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.158E+00	1.579E+01
233	RC1CB061GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.158E+00	1.579E+01
234	RC1CB053GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.158E+00	1.579E+01
235	RC1CB051GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.158E+00	1.579E+01
236	RPTMOD01	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	1.149E+00	1.487E+01
237	RPTMOD03	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	1.149E+00	1.487E+01
238	RPTMOD05	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	1.149E+00	1.487E+01
239	RPTMOD07	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	1.149E+00	1.487E+01
240	CCX-PLBMOD1	23	1.410E-04	3.295E-08	2.409E-07	2.739E-07	3.295E-08	1.137E+00	1.368E+01
241	CCX-PLB03	19	9.690E-05	3.260E-08	2.409E-07	2.735E-07	3.260E-08	1.135E+00	1.353E+01
242	IRWMOD09	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	3.234E-08	1 134E+00	1.342E+01
243	IRWMOD11	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	3.234E-08	1.134E+00	1.342E+01
244	IWARS118BFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	3.183E-08	1.132E+00	1.321E+01
245	IWBRS118AFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	3.183E-08	1.132E+00	1.321E+01
246	RC1CB052GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	3.079E-08	1.128E+00	1.278E+01

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247	RC1CB054GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	3.079E-08	1.128E+00	1.278E+01
248	RC1CB064GO	146	4.200E-03	3.072E-08	2.408E-07	2.715E-07	3.059E-08	1.127E+00	1.270E+01
249	RC1CB062GO	146	4.200E-03	3.072E-08	2.408E-07	2.715E-07	3.059E-08	1.127E+00	1.270E+01
250	CCX-PLBMOD1-SW	6	1.100E-05	3.004E-08	2.409E-07	2.710E-07	3.004E-08	1.125E+00	1.247E+01
251	IRDEP118BSA	9	1.710E-04	2.852E-08	2.409E-07	2.694E-07	2.852E-08	1.118E+00	1.184E+01
252	IRCEP118ASA	9	1.710E-04	2.852E-08	2.409E-07	2.694E-07	2.852E-08	1.118E+00	1.184E+01
253	RPTMOD08	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	1.118E+00	1.178E+01
254	RPTMOD06	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	1.118E+00	1.178E+01
255	RPTMOD04	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	1.118E+00	1.178E+01
256	RPTMOD02	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	1.118E+00	1.178E+01
257	FWX-PM2-ER	4	5.900E-06	2.783E-08	2.409E-07	2.688E-07	2.783E-08	1.116E+00	1.155E+01
258	FWX-CV2-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	2.781E-08	1.115E+00	1.154E+01
259	SGX-CV-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	2.781E-08	1.115E+00	1.154E+01
260	SGX-MV-RP	4	7.670E-06	2.780E-08	2.409E-07	2.687E-07	2.780E-08	1.115E+00	1.154E+01
261	CCX-PLBEH0	4	4.030E-06	2.779E-08	2.409E-07	2.687E-07	2.779E-08	1.115E+00	1.154E+01
262	SGX-AV-FA	4	6.300E-06	2.778E-08	2.409E-07	2.687E-07	2.778E-08	1.115E+00	1.153E+01
263	ZANMOD01	54	8.400E-05	2.733E-08	2.409E-07	2.682E-07	2.733E-08	1.113E+00	1.134E+01
264	PRAAV108LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.665E-08	1.111E+00	1.106E+01
265	PRAAV130LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.665E-08	1.111E+00	1.106E+01
266	PRBAV130LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2.641E-08	1.110E+00	1.096E+01
267	PRBAV108LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2.641E-08	1.110E+00	1.096E+01
268	EC1BS013TM	192	2.700E-03	2.534E-08	2.409E-07	2.662E-07	2.527E-08	1.105E+00	1.049E+01
269	EC1BS011TM	329	2.700E-03	2.448E-08	2.409E-07	2.653E-07	2.441E-08	1.101E+00	1.013E+01
270	ED3MOD01	102	5.040E-04	2.339E-08	2.409E-07	2.643E-07	2.338E-08	1.097E+00	9.703E+00
271	PRBAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.097E+00	9.702E+00
272	PRBAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.097E+00	9.702E+00
273	PRAAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.097E+00	9.702E+00
274	PRAAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.097E+00	9.702E+00
275	IRBEP123BSA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	2.332E-08	1.097E+00	9.681E+00
276	IRBEP123ASA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	2.332E-08	1.097E+00	9.681E+00
277	ED1MOD03	168	2.700E-03	2.142E-08	2.409E-07	2.623E-07	2.136E-08	1.089E+00	8.866E+00
278	CDNTK02AF	2	2.400E-06	2.083E-08	2.409E-07	2.618E-07	2.083E-08	1.086E+00	8.647E+00
279	MSHTP002RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	2.044E-08	1.085E+00	8.482E+00
280	MSHTP001RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	2.044E-08	1.085E+00	8.482E+00
281	IEV-LCAS	417	3.480E-02	1.932E-08	2.402E-07	2.596E-07	1.865E-08	1.077E+00	7.742E+00
282	EC2BS023TM	101	2.700E-03	1.795E-08	2.409E-07	2.588E-07	1.790E-08	1.074E+00	7.429E+00
283	ED3BSDS1TM	65	3.000E-04	1.742E-08	2.409E-07	2.583E-07	1.741E-08	1.072E+00	7.228E+00
284	ED2BSDS1TM	52	3.000E-04	1.633E-08	2.409E-07	2.572E-07	1.632E-08	1.068E+00	6.775E+00
285	ED2MOD11	48	3.170E-04	1.576E-08	2.409E-07	2.567E-07	1.576E-08	1.065E+00	6.542E+00
286	OTH-PRESU	15	2.000E-03	1.561E-08	2.409E-07	2.565E-07	1.557E-08	1.065E+00	6.464E+00
287	IEV-SLB-D	18	5.960E-04	1.535E-08	2.409E-07	2.563E-07	1.534E-08	1.064E+00	6.368E+00
288	OTH-SLSOV3	511	5.400E-03	1.519E-08	2.408E-07	2.560E-07	1.510E-08	1.063E+00	6.269E+00

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RISK IMPORTANCES SORTED BY RISK INCREASE

289	ZOX-PD-ES	93	2.000E-03	1.404E-08	2.409E-07	2.549E-07	1.402E-08	1.058E+00	5.818E+00
290	OTH-SLSOV2	97	1.000E-02	1.399E-08	2.408E-07	2.548E-07	1.385E-08	1.057E+00	5.749E+00
291	ZANTR-2AHF	14	2.880E-05	1.233E-08	2.409E-07	2.532E-07	1.233E-08	1.051E+00	5.116E+00
292	ECX-CB-GC	48	7.300E-04	1.227E-08	2.409E-07	2.532E-07	1.226E-08	1.051E+00	5.089E+00
293	OTH-SGTR1	75	6.700E-03	1.196E-08	2.408E-07	2.528E-07	1.188E-08	1.049E+00	4.931E+00
294	CONDVACUUM	35	1.000E-03	1.132E-08	2.409E-07	2.522E-07	1.131E-08	1.047E+00	4.693E+00
295	ZOX-DG-DR	36	4.400E-04	1.115E-08	2.409E-07	2.521E-07	1.115E-08	1.046E+00	4.628E+00
296	ECX-CB-GO	34	4.200E-04	1.112E-08	2.409E-07	2.520E-07	1.111E-08	1.046E+00	4.612E+00
297	EC1BS131TM	62	2.700E-03	1.090E-08	2.409E-07	2.518E-07	1.087E-08	1.045E+00	4.511E+00
298	EC1BS112TM	62	2.700E-03	1.090E-08	2.409E-07	2.518E-07	1.087E-08	1.045E+00	4.511E+00
299	IDDMOD32	67	3.170E-04	1.081E-08	2.409E-07	2.517E-07	1.081E-08	1.045E+00	4.487E+00
300	EC2BS021TM	89	2.700E-03	1.033E-08	2.409E-07	2.512E-07	1.030E-08	1.043E+00	4.276E+00
301	IDAMOD04	53	3.170E-04	1.014E-08	2.409E-07	2.511E-07	1.014E-08	1.042E+00	4.209E+00
302	ED1MOD01	35	5.040E-04	1.000E-08	2.409E-07	2.509E-07	9.997E-09	1.041E+00	4.150E+00
303	IEV-LCOND	858	1.120E-01	1.111E-08	2.397E-07	2.508E-07	9.862E-09	1.041E+00	4.093E+00
304	VWBMOD05	158	2.190E-02	9.985E-09	2.407E-07	2.507E-07	9.766E-09	1.041E+00	4.054E+00
305	VWBMOD04	141	1.830E-02	9.910E-09	2.407E-07	2.506E-07	9.729E-09	1.040E+00	4.038E+00
306	SWAMOD03	44	6.340E-04	9.692E-09	2.409E-07	2.506E-07	9.686E-09	1.040E+00	4.020E+00
307	IDBMOD24	42	3.170E-04	9.625E-09	2.409E-07	2.505E-07	9.622E-09	1.040E+00	3.994E+00
308	IDCMOD28	42	3.170E-04	9.625E-09	2.409E-07	2.505E-07	9.622E-09	1.040E+00	3.994E+00
309	RNAMOD09	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	8.958E-09	1.037E+00	3.718E+00
310	RNBMOD10	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	8.958E-09	1.037E+00	3.718E+00
311	ED1MOD07	31	3.050E-04	8.922E-09	2.409E-07	2.498E-07	8.919E-09	1.037E+00	3.702E+00
312	ED1MOD13	31	3.170E-04	8.917E-09	2.409E-07	2.498E-07	8.914E-09	1.037E+00	3.700E+00
313	VWN-MAN01	33	5.160E-03	8.947E-09	2.409E-07	2.498E-07	8.901E-09	1.037E+00	3.695E+00
314	VWBMOD06	33	5.180E-03	8.939E-09	2.409E-07	2.498E-07	8.893E-09	1.037E+00	3.691E+00
315	EC2BS212TM	31	2.700E-03	8.884E-09	2.409E-07	2.498E-07	8.860E-09	1.037E+00	3.678E+00
316	EC2BS231TM	31	2.700E-03	8.884E-09	2.409E-07	2.498E-07	8.860E-09	1.037E+00	3.678E+00
317	CCX-IV-XR1	6	2.400E-05	8.821E-09	2.409E-07	2.497E-07	8.821E-09	1.037E+00	3.661E+00
318	PMDMOD11	186	2.090E-03	7.809E-09	2.409E-07	2.487E-07	7.793E-09	1.032E+00	3.235E+00
319	VWAMOD02	14	6.120E-04	7.732E-09	2.409E-07	2.486E-07	7.727E-09	1.032E+00	3.207E+00
320	CANAV014LA	88	8.760E-03	7.581E-09	2.409E-07	2.484E-07	7.514E-09	1.031E+00	3.119E+00
321	REC-MANDASC	723	5.060E-01	1.516E-08	2.333E-07	2.484E-07	7.487E-09	1.031E+00	3.108E+00
322	PMAMOD11	190	2.090E-03	7.405E-09	2.409E-07	2.483E-07	7.389E-09	1.031E+00	3.067E+00
323	IEV-ATW-S	55	1.480E-02	7.475E-09	2.408E-07	2.483E-07	7.364E-09	1.031E+00	3.057E+00
324	ZOX-DG-DS	20	2.800E-04	7 319E-09	2.409E-07	2.482E-07	7.317E-09	1.030E+00	3.037E+00
325	PLMMOD41	33	6.350E-04	7.247E-09	2.409E-07	2.482E-07	7.243E-09	1.030E+00	3.006E+00
326	RNAMOD06	312	3.400E-02	7.420E-09	2.407E-07	2.481E-07	7.167E-09	1.030E+00	2.975E+00
327	CDNTF01BRI	82	5.230E-03	7.195E-09	2.409E-07	2.481E-07	7.157E-09	1.030E+00	2.971E+00
328	CCAMOD03	26	6.140E-04	7.159E-09	2.409E-07	2.481E-07	7.155E-09	1.030E+00	2.970E+00
329	CIAEP014SA	8	1.710E-04	7.147E-09	2.409E-07	2.481E-07	7.146E-09	1.030E+00	2.966E+00
330	IEV-LOSP	530	1.200E-01	7.981E-09	2.400E-07	2.479E-07	7.023E-09	1.029E+00	2.915E+00

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331	PMD0301ASA	113	1.160E-03	6.897E-09	2.409E-07	2.478E-07	6.889E-09	1.029E+00	2.860E+00
332	PMD0301BSA	103	1.160E-03	6.712E-09	2.409E-07	2.476E-07	6.704E-09	1.028E+00	2.783E+00
333	RNBMOD07	199	3.400E-02	6.901E-09	2.407E-07	2.476E-07	6.667E-09	1.028E+00	2.767E+00
334	PMA0301ASA	110	1.160E-03	6.475E-09	2.409E-07	2.474E-07	6.467E-09	1.027E+00	2.684E+00
335	PMA0301BSA	100	1.160E-03	6.289E-09	2.409E-07	2.472E-07	6.282E-09	1.026E+00	2.608E+00
336	PMBMOD11	112	2.090E-03	6.037E-09	2.409E-07	2.469E-07	6.024E-09	1.025E+00	2.501E+00
337	IDDMOD33	63	5.160E-04	5.936E-09	2.409E-07	2.469E-07	5.933E-09	1.025E+00	2.462E+00
338	RNAEP01ASA	19	1.710E-04	5.848E-09	2.409E-07	2.468E-07	5.847E-09	1.024E+00	2.427E+00
339	VWAMOD03	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	5.756E-09	1.024E+00	2.389E+00
340	VWAMOD01	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	5.756E-09	1.024E+00	2.389E+00
341	PMCMOD11	97	2.090E-03	5.729E-09	2.409E-07	2.466E-07	5.717E-09	1.024E+00	2.373E+00
342	RNAEP01BSA	17	1.710E-04	5.699E-09	2.409E-07	2.466E-07	5.698E-09	1.024E+00	2.365E+00
343	PMAMOD31	46	5.020E-03	5.707E-09	2.409E-07	2.466E-07	5.679E-09	1.024E+00	2.357E+00
344	PMBMOD32	46	5.020E-03	5.707E-09	2.409E-07	2.466E-07	5.679E-09	1.024E+00	2.357E+00
345	ZO1DG001TM	762	4.600E-02	5.727E-09	2.407E-07	2.464E-07	5.463E-09	1.023E+00	2.268E+00
346	PMAMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	1.022E+00	2.221E+00
347	PMBMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	1.022E+00	2.221E+00
348	PMCMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	1.022E+00	2.221E+00
349	PMDMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	1.022E+00	2.221E+00
350	CVBPM01BTM	68	2.190E-02	5.457E-09	2.408E-07	2.463E-07	5.338E-09	1.022E+00	2.216E+00
351	MSX-AV2-FA	44	2.310E-03	5.315E-09	2.409E-07	2.462E-07	5.303E-09	1.022E+00	2.201E+00
352	PL3MOD11	20	2.090E-03	5.297E-09	2.409E-07	2.462E-07	5.286E-09	1.022E+00	2.194E+00
353	CVMOD03	44	1.120E-02	5.308E-09	2.409E-07	2.462E-07	5.249E-09	1.022E+00	2.179E+00
354	IDAMOD05	47	5.160E-04	5.203E-09	2.409E-07	2.461E-07	5.200E-09	1.022E+00	2.159E+00
355	PMB0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	5.171E-09	1.021E+00	2.146E+00
356	PMC0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	5.171E-09	1.021E+00	2.146E+00
357	PMC0301BSA	58	1.160E-03	5.149E-09	2.409E-07	2.461E-07	5.143E-09	1.021E+00	2.135E+00
358	PMB0301BSA	58	1.160E-03	5.149E-09	2.409E-07	2.461E-07	5.143E-09	1.021E+00	2.135E+00
359	CVMOD02	13	1.410E-03	5.121E-09	2.409E-07	2.460E-07	5.113E-09	1.021E+00	2.122E+00
360	ZO1MOD01	439	2.020E-02	5.150E-09	2.408E-07	2.460E-07	5.046E-09	1.021E+00	2.094E+00
361	PMDMOD34	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	5.032E-09	1.021E+00	2.089E+00
362	PMCMOD33	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	5.032E-09	1.021E+00	2.089E+00
363	DUMP-MAN01	31	1.320E-03	4.945E-09	2.409E-07	2.459E-07	4.939E-09	1.020E+00	2.050E+00
364	CANCV015GC	415	2.450E-02	4.976E-09	2.408E-07	2.458E-07	4.854E-09	1.020E+00	2.015E+00
365	ZOX-PD-ER	6	1.300E-04	4.850E-09	2.409E-07	2.458E-07	4.849E-09	1.020E+00	2.013E+00
366	IDBMOD25	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	4.834E-09	1.020E+00	2.007E+00
367	IDCMOD29	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	4.834E-09	1.020E+00	2.007E+00
368	PL30301ASA	12	1.160E-03	4.756E-09	2.409E-07	2.457E-07	4.751E-09	1.020E+00	1.972E+00
369	EC1BS111TM	163	2.700E-03	4.704E-09	2.409E-07	2.456E-07	4.691E-09	1.019E+00	1.947E+00
370	REBCV119GO	79	1.750E-03	4.693E-09	2.409E-07	2.456E-07	4.685E-09	1.019E+00	1.945E+00
371	REACV119GO	79	1.750E-03	4.693E-09	2.409E-07	2.456E-07	4.685E-09	1.019E+00	1.945E+00
372	PL30301BSA	11	1.160E-03	4.670E-09	2.409E-07	2.456E-07	4.664E-09	1.019E+00	1.936E+00

Table 50-23 (Sheet 10 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

373	IRWMOD12	71	1.460E-03	4.649E-09	2.409E-07	2.456E-07	4.643E-09	1.019E+00	1.927E+00
374	IRWMOD10	71	1.460E-03	4.649E-09	2.409E-07	2.456E-07	4.643E-09	1.019E+00	1.927E+00
375	EC2MOD23	8	4.800E-05	4.613E-09	2.409E-07	2.455E-07	4.612E-09	1.019E+00	1.914E+00
376	EC1MOD13	8	4.800E-05	4.613E-09	2.409E-07	2.455E-07	4 612E-09	1.019E+00	1.914E+00
377	CCX-BY-PN1	5	5.700E-05	4.589E-09	2.409E-07	2.455E-07	4.589E-09	1.019E+00	1.905E+00
378	FSMOD255A	14	5.800E-04	4.424E-09	2.409E-07	2.453E-07	4.422E-09	1.018E+00	1.835E+00
379	CASMOD01	63	2.410E-03	4.384E-09	2.409E-07	2.453E-07	4.374E-09	1.018E+00	1.815E+00
380	IWDRS120AFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	4.124E-09	1.017E+00	1.712E+00
381	IWCRS120BFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	4.124E-09	1.017E+00	1.712E+00
382	PL2MOD11	12	2.090E-03	4.127E-09	2.409E-07	2.450E-07	4.118E-09	1.017E+00	1.709E+00
383	CVN-MAN03	11	1.070E-03	4.064E-09	2.409E-07	2.450E-07	4.060E-09	1.017E+00	1.685E+00
384	PRAMOD9	51	1.410E-02	4.007E-09	2.409E-07	2.449E-07	3.951E-09	1.016E+00	1.640E+00
385	CV3EPCPASA	4	1.710E-04	3.901E-09	2.409E-07	2.448E-07	3.900E-09	1.016E+00	1.619E+00
386	IEV-ATWS	136	4.810E-01	7.495E-09	2.373E-07	2.448E-07	3.890E-09	1.016E+00	1.615E+00
387	PL20301BSA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	3.817E-09	1.016E+00	1.584E+00
388	PL20301ASA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	3.817E-09	1.016E+00	1.584E+00
389	PMAXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	1.015E+00	1.539E+00
390	PMBXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	1.015E+00	1.539E+00
391	PMCXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	1.015E+00	1.539E+00
392	PMDXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	1.015E+00	1.539E+00
393	CMAAV014LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	3.647E-09	1.015E+00	1.514E+00
394	CMAAV015LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	3.647E-09	1.015E+00	1.514E+00
395	EC1CB100VO	133	4.200E-03	3.638E-09	2.409E-07	2.445E-07	3.623E-09	1.015E+00	1.504E+00
396	VW2EPTRBSA	4	1.710E-04	3.556E-09	2.409E-07	2.445E-07	3.555E-09	1.015E+00	1.476E+00
397	CCX-PL2MOD1	4	1.410E-04	3.546E-09	2.409E-07	2.445E-07	3.546E-09	1.015E+00	1.472E+00
398	MSX-AV4-FA	3	2.000E-04	3.430E-09	2.409E-07	2.443E-07	3.429E-09	1.014E+00	1.423E+00
399	MSAEPSD1SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
400	MSAEPSD3SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
401	MSAEPSD5SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
402	MSAEPSD6SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
403	MSAEPSD8SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
404	MSAEPSD2SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
405	MSAEPSD7SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
406	MSAEPSD4SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	1.014E+00	1.422E+00
407	ED3MOD03	104	2.700E-03	3.426E-09	2.409E-07	2.443E-07	3.416E-09	1.014E+00	1.418E+00
408	PRAMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	3.416E-09	1.014E+00	1.418E+00
409	PRBMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	3.416E-09	1.014E+00	1.418E+00
410	ED2MOD03	71	2.700E-03	3.370E-09	2.409E-07	2.443E-07	3.361E-09	1.014E+00	1.395E+00
411	ATW-MAN04C	34	5.260E-01	6.695E-09	2.374E-07	2.441E-07	3.174E-09	1.013E+00	1.317E+00
412	CA9EPCMPASA	10	1.710E-04	3.138E-09	2.409E-07	2.441E-07	3.137E-09	1.013E+00	1.302E+00
413	CVMOD07	148	2.710E-02	3.195E-09	2.408E-07	2.440E-07	3.109E-09	1.013E+00	1.290E+00
414	CVMOD05	163	2.880E-02	3.197E-09	2.408E-07	2.440E-07	3.105E-09	1.013E+00	1.289E+00

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RISK IMPORTANCES SORTED BY RISK INCREASE

415	WLIAV004LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	1.011E+00	1.103E+00
416	WLIAV055LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	1.011E+00	1.103E+00
417	WLOAV006LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	1.011E+00	1.103E+00
418	WLOAV057LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	1.011E+00	1.103E+00
419	ZO1MOD04	47	1.250E-03	2.652E-09	2.409E-07	2.436E-07	2.649E-09	1.011E+00	1.099E+00
420	EC1CB100RQ	2	1.440E-05	2.535E-09	2.409E-07	2.435E-07	2.535E-09	1.011E+00	1.052E+00
421	CCX-PLAMOD1	6	1.410E-04	2.527E-09	2.409E-07	2.434E-07	2.527E-09	1.010E+00	1.049E+00
422	EC1MOD11	4	4.800E-05	2.496E-09	2.409E-07	2.434E-07	2.496E-09	1.010E+00	1.036E+00
423	AD4MOD10D	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	1.010E+00	9.972E-01
424	AD4MOD09C	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	1.010E+00	9.972E-01
425	AD4MOD07C	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	1.010E+00	9.972E-01
426	AD4MOD08D	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	1.010E+00	9.972E-01
427	CCX-PLA03	4	9.690E-05	2.341E-09	2.409E-07	2.433E-07	2.340E-09	1.010E+00	9.714E-01
428	HPM-MAN01	6	5.020E-04	2.298E-09	2.409E-07	2.432E-07	2.296E-09	1.010E+00	9.532E-01
429	PRCEP101SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2.251E-09	1.009E+00	9.344E-01
430	PRCEP108SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2.251E-09	1.009E+00	9.344E-01
431	PRDEP108SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2.251E-09	1.009E+00	9.344E-01
432	PRI-MAN01	2	4.960E-04	2.250E-09	2.409E-07	2.432E-07	2.249E-09	1.009E+00	9.335E-01
433	REG-MAN00	232	2.040E-01	2.560E-09	2.404E-07	2.430E-07	2.038E-09	1.008E+00	8.460E-01
434	ADN-MAN01C	13	5.000E-01	3.993E-09	2.389E-07	2.429E-07	1.996E-09	1.008E+00	8.287E-01
435	IEV-LRCS	143	1.800E-02	1.957E-09	2.409E-07	2.428E-07	1.921E-09	1.008E+00	7.975E-01
436	IEV-LCCW	690	1.440E-01	2.241E-09	2.406E-07	2.428E-07	1.919E-09	1.008E+00	7.964E-01
437	IEV-LMFW1	763	1.920E-01	2.359E-09	2.405E-07	2.428E-07	1.906E-09	1.008E+00	7.910E-01
438	ZOX-BL-ES	1	6.000E-05	1.867E-09	2.409E-07	2.428E-07	1.867E-09	1.008E+00	7.748E-01
439	CCX-PLDMOD1	1	1.410E-04	1.851E-09	2.409E-07	2.428E-07	1.851E-09	1.008E+00	7.682E-01
440	CCX-PLD03	1	9.690E-05	1.847E-09	2.409E-07	2.428E-07	1.847E-09	1.008E+00	7.667E-01
441	CV3EPCPBSA	2	1.710E-04	1.778E-09	2.409E-07	2.427E-07	1.777E-09	1.007E+00	7.378E-01
442	IEV-LMFW	1334	3.350E-01	2.596E-09	2.401E-07	2.426E-07	1.726E-09	1.007E+00	7.166E-01
443	PL4MOD11	71	2.090E-03	1.604E-09	2.409E-07	2.425E-07	1.601E-09	1.007E+00	6.646E-01
444	FWMOD03A	184	1.700E-02	1.626E-09	2.409E-07	2.425E-07	1.598E-09	1.007E+00	6.634E-01
445	FWMOD013A	155	1.410E-02	1.590E-09	2.409E-07	2.425E-07	1.568E-09	1.007E+00	6.507E-01
446	LPM-MAN01C	5	5.000E-01	3.044E-09	2.394E-07	2.424E-07	1.522E-09	1.006E+00	6.317E-01
447	ZO2DG002TM	230	4.600E-02	1.468E-09	2.409E-07	2.423E-07	1.401E-09	1.006E+00	5.815E-01
448	FWMOD03B	154	1.700E-02	1.407E-09	2.409E-07	2.423E-07	1.383E-09	1.006E+00	5.740E-01
449	FWMOD013B	135	1.410E-02	1.384E-09	2.409E-07	2.423E-07	1.365E-09	1.006E+00	5.665E-01
450	PL40301ASA	43	1.160E-03	1.319E-09	2.409E-07	2.422E-07	1.317E-09	1.005E+00	5.468E-01
451	PL9MOD11	46	2.090E-03	1.318E-09	2.409E-07	2.422E-07	1.315E-09	1.005E+00	5.457E-01
452	SWN-MAN03	55	4.000E-02	1.333E-09	2.409E-07	2.422E-07	1.280E-09	1.005E+00	5.313E-01
453	PL9MOD12	32	2.090E-03	1.220E-09	2.409E-07	2.421E-07	1.217E-09	1.005E+00	5.053E-01
454	ZO2MOD01	112	2.020E-02	1.236E-09	2.409E-07	2.421E-07	1.211E-09	1.005E+00	5.025E-01
455	PMDMOD41	29	6.350E-04	1.183E-09	2.409E-07	2.421E-07	1.182E-09	1.005E+00	4.906E-01
456	PL40301BSA	35	1.160E-03	1.161E-09	2.409E-07	2.421E-07	1.160E-09	1.005E+00	4.815E-01

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RISK IMPORTANCES SORTED BY RISK INCREASE

457	PL90301ASA	32	1.160E-03	1.127E-09	2.409E-07	2.420E-07	1.126E-09	1.005E+00	4.673E-01
458	EC2BS222TM	29	2.700E-03	1.121E-09	2.409E-07	2.420E-07	1.118E-09	1.005E+00	4.639E-01
459	SG2TF50ARI	18	5.230E-03	1.120E-09	2.409E-07	2.420E-07	1.114E-09	1.005E+00	4.622E-01
460	SGBAV074LA	79	8.760E-03	1.089E-09	2.409E-07	2.420E-07	1.080E-09	1.004E+00	4.482E-01
461	SGBAV075LA	79	8.760E-03	1.089E-09	2.409E-07	2.420E-07	1.080E-09	1.004E+00	4.482E-01
462	PL3MOD51	24	8.740E-04	1.046E-09	2.409E-07	2.420E-07	1.045E-09	1.004E+00	4.336E-01
463	ADF-MAN01	374	5.000E-01	2.029E-09	2.399E-07	2.419E-07	1.015E-09	1.004E+00	4.212E-01
464	PL90301BSA	28	1.160E-03	1.002E-09	2.409E-07	2.419E-07	1.001E-09	1.004E+00	4.154E-01
465	PMAMOD12	56	2.090E-03	9.911E-10	2.409E-07	2.419E-07	9.890E-10	1.004E+00	4.105E-01
466	PL90302ASA	16	1.160E-03	9.731E-10	2.409E-07	2.419E-07	9.720E-10	1.004E+00	4.034E-01
467	PMDMOD12	53	2.090E-03	9.717E-10	2.409E-07	2.419E-07	9.697E-10	1.004E+00	4.025E-01
468	CASMOD02	101	2.310E-02	9.210E-10	2.409E-07	2.418E-07	8.997E-10	1.004E+00	3.735E-01
469	ED2MOD01	12	5.040E-04	8.750E-10	2.409E-07	2.418E-07	8.746E-10	1.004E+00	3.630E-01
470	FWACV012GO	8	2.190E-04	8.658E-10	2.409E-07	2.418E-07	8.656E-10	1.004E+00	3.593E-01
471	FWBCV012GO	8	2.190E-04	8.658E-10	2.409E-07	2.418E-07	8.656E-10	1.004E+00	3.593E-01
472	ED3MOD11	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	1.004E+00	3.592E-01
473	ED3MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	1.004E+00	3.592E-01
474	ED4MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	1.004E+00	3.592E-01
475	PL90302BSA	12	1.160E-03	8.479E-10	2.409E-07	2.418E-07	8.469E-10	1.004E+00	3.515E-01
476	SFBEP013ASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.003E+00	3.179E-01
477	SFBEP013BSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.003E+00	3.179E-01
478	SFBEPSFPASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.003E+00	3.179E-01
479	SFBEPSFPBSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.003E+00	3.179E-01
480	AD4MOD07A	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	1.003E+00	3.179E-01
481	AD4MOD08B	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	1.003E+00	3.179E-01
482	AD4MOD10B	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	1.003E+00	3.179E-01
483	AD4MOD09A	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	1.003E+00	3.179E-01
484	EC2CB200VO	21	4.200E-03	7.334E-10	2.409E-07	2.417E-07	7.303E-10	1.003E+00	3.031E-01
485	PL4MOD12	41	2.090E-03	7.288E-10	2.409E-07	2.416E-07	7.272E-10	1.003E+00	3.019E-01
486	PLSMOD61	26	3.460E-03	7.103E-10	2.409E-07	2.416E-07	7.078E-10	1.003E+00	2.938E-01
487	PL2MOD51	16	8.740E-04	6.970E-10	2.409E-07	2.416E-07	6.964E-10	1.003E+00	2.891E-01
488	ATW-MAN06C	1	5.000E-01	1.390E-09	2.402E-07	2.416E-07	6.950E-10	1.003E+00	2.885E-01
489	PMD0302ASA	28	1.160E-03	6.935E-10	2.409E-07	2.416E-07	6.927E-10	1.003E+00	2.875E-01
490	PMA0302ASA	28	1.160E-03	6.935E-10	2.409E-07	2.416E-07	6.927E-10	1.003E+00	2.875E-01
491	CABCM00BTM	20	1.500E-03	6.929E-10	2 409E-07	2.416E-07	6.919E-10	1.003E+00	2.872E-01
492	PLSMOD62	20	3.460E-03	6.649E-10	2.409E-07	2.416E-07	6.626E-10	1.003E+00	2.750E-01
493	FWA-CV-EO	4	1.000E-04	5.930E-10	2.409E-07	2.415E-07	5.929E-10	1.002E+00	2.461E-01
494	PL2MOD52	3	8.740E-04	5.684E-10	2.409E-07	2.415E-07	5.679E-10	1.002E+00	2.357E-01
495	ED3MOD04	73	2.190E-02	5.306E-10	2.409E-07	2.414E-07	5.190E-10	1.002E+00	2.154E-01
496	PMA0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5.076E-10	1.002E+00	2.107E-01
497	PMD0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5.076E-10	1.002E+00	2.107E-01
498	PL70302ASA	2	1.160E-03	5.026E-10	2.409E-07	2.414E-07	5.020E-10	1.002E+00	2.084E-01

Table 50-23 (Sheet 13 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

499	PL70302BSA	2	1.160E-03	5.026E-10	2.409E-07	2.414E-07	5.020E-10	1.002E+00	2.084E-01
500	PL7MOD12	2	2.090E-03	5.029E-10	2.409E-07	2.414E-07	5.018E-10	1.002E+00	2.083E-01
501	AD2MOD01	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	1.002E+00	2.079E-01
502	AD2MOD02	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	1.002E+00	2.079E-01
503	AD3MOD04	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	1.002E+00	2.079E-01
504	AD3MOD03	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	1.002E+00	2.079E-01
505	PL40302ASA	21	1.160E-03	4.944E-10	2.409E-07	2.414E-07	4.938E-10	1.002E+00	2.050E-01
506	PMAMOD41	11	6.350E-04	4.176E-10	2.409E-07	2.413E-07	4.174E-10	1.002E+00	1.732E-01
507	OTH-R05	530	7.000E-01	1.368E-09	2.400E-07	2.413E-07	4.105E-10	1.002E+00	1.704E-01
508	ZO2MOD04	7	1.250E-03	4.053E-10	2.409E-07	2.413E-07	4.048E-10	1.002E+00	1.680E-01
509	PL3MOD12	4	2.090E-03	3.895E-10	2.409E-07	2.413E-07	3.887E-10	1.002E+00	1.613E-01
510	EC2BS211TM	28	2.700E-03	3.860E-10	2.409E-07	2.413E-07	3.850E-10	1.002E+00	1.598E-01
511	PL40302BSA	13	1.160E-03	3.369E-10	2.409E-07	2.413E-07	3.365E-10	1.001E+00	1.397E-01
512	PLBMOD11	20	2.090E-03	3.319E-10	2.409E-07	2.413E-07	3.312E-10	1.001E+00	1.375E-01
513	PMBMOD12	17	2.090E-03	3.157E-10	2.409E-07	2.412E-07	3.151E-10	1.001E+00	1.308E-01
514	ED1MOD06	8	3.480E-04	3.063E-10	2.409E-07	2.412E-07	3.062E-10	1.001E+00	1.271E-01
515	VFOAV009	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	1.001E+00	1.261E-01
516	VFOAV003	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	1.001E+00	1.261E-01
517	VFIAV010	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	1.001E+00	1.261E-01
518	VFIAV004	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	1.001E+00	1.261E-01
519	PLB0301ASA	16	1.160E-03	2.928E-10	2.409E-07	2.412E-07	2.924E-10	1.001E+00	1.214E-01
520	IDDMOD38	6	3.170E-04	2.845E-10	2.409E-07	2.412E-07	2.845E-10	1.001E+00	1.181E-01
521	IDAMOD08	6	3.170E-04	2.845E-10	2.409E-07	2.412E-07	2.845E-10	1.001E+00	1.181E-01
522	ATW-MAN04	26	5.200E-02	2.974E-10	2.409E-07	2.412E-07	2.819E-10	1.001E+00	1.170E-01
523	ED3MOD06	1	3.480E-04	2.819E-10	2.409E-07	2.412E-07	2.818E-10	1.001E+00	1.170E-01
524	ZO1MOD03	2	1.000E-04	2.810E-10	2.409E-07	2.412E-07	2.810E-10	1.001E+00	1.166E-01
525	PLB0301BSA	14	1.160E-03	2.686E-10	2.409E-07	2.412E-07	2.683E-10	1.001E+00	1.114E-01
526	PMAMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.001E+00	1.113E-01
527	PMBMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.001E+00	1.113E-01
528	PMDMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.001E+00	1.113E-01
529	PMCMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.001E+00	1.113E-01
530	PMCMOD12	14	2.090E-03	2.598E-10	2.409E-07	2.412E-07	2.593E-10	1.001E+00	1.076E-01
531	CVAEP084SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	2.462E-10	1.001E+00	1.022E-01
532	CVBEP081SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	2.462E-10	1.001E+00	1.022E-01
533	PL30302ASA	2	1.160E-03	2.414E-10	2.409E-07	2.412E-07	2.411E-10	1.001E+00	1.001E-01
534	SGBOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	2.187E-10	1.001E+00	9.077E-02
535	SGAOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	2.187E-10	1.001E+00	9.077E-02
536	CCBMOD01	48	4.800E-02	2.259E-10	2.409E-07	2.411E-07	2.150E-10	1.001E+00	8.925E-02
537	PMC0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.079E-10	1.001E+00	8.628E-02
538	PMB0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.079E-10	1.001E+00	8.628E-02
539	SWB-001TM	34	3.800E-02	2.149E-10	2.409E-07	2.411E-07	2.068E-10	1.001E+00	8.582E-02
540	SWBMOD02	31	2.440E-02	2.109E-10	2.409E-07	2.411E-07	2.057E-10	1.001E+00	8.539E-02

Table 50-23 (Sheet 14 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

541	SGBTL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	2.027E-10	1.001E+00	8.414E-02
542	SGATL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	2.027E-10	1.001E+00	8.414E-02
543	IWBCV124AO	9	1.750E-03	2.011E-10	2.409E-07	2.411E-07	2.007E-10	1.001E+00	8.332E-02
544	IRWMOD08	7	1.460E-03	1.877E-10	2.409E-07	2.411E-07	1.875E-10	1.001E+00	7.781E-02
545	PMC0302BSA	6	1.160E-03	1.803E-10	2.409E-07	2.411E-07	1.800E-10	1.001E+00	7.473E-02
546	PMB0302BSA	6	1.160E-03	1.803E-10	2.409E-07	2.411E-07	1.800E-10	1.001E+00	7.473E-02
547	PL30302BSA	1	1.160E-03	1.552E-10	2.409E-07	2.411E-07	1.550E-10	1.001E+00	6.433E-02
548	EC1MOD01	1	6.910E-05	1.505E-10	2.409E-07	2.411E-07	1.505E-10	1.001E+00	6.247E-02
549	ED1MOD02	2	1.920E-04	1.490E-10	2.409E-07	2.411E-07	1.489E-10	1.001E+00	6.182E-02
550	PLAMOD12	4	2.090E-03	1.336E-10	2.409E-07	2.411E-07	1.333E-10	1.001E+00	5.533E-02
551	MSMODV001	14	2.710E-02	1.201E-10	2.409E-07	2.410E-07	1.169E-10	1.000E+00	4.851E-02
552	MSMODV003	14	2.710E-02	1.201E-10	2.409E-07	2.410E-07	1.169E-10	1.000E+00	4.851E-02
553	PLBMOD12	8	2.090E-03	1.065E-10	2.409E-07	2.410E-07	1.063E-10	1.000E+00	4.412E-02
554	IDBMOD36	2	3.170E-04	1.013E-10	2.409E-07	2.410E-07	1.012E-10	1.000E+00	4.202E-02
555	IDCMOD37	2	3.170E-04	1.013E-10	2.409E-07	2.410E-07	1.012E-10	1.000E+00	4.202E-02
556	ED4MOD03	2	2.700E-03	9.111E-11	2.409E-07	2.410E-07	9.087E-11	1.000E+00	3.772E-02
557	OTH-BL	23	1.900E-01	9.931E-11	2.409E-07	2.410E-07	8.044E-11	1.000E+00	3.339E-02
558	PLA0302ASA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	7.509E-11	1.000E+00	3.117E-02
559	PLA0302BSA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	7.509E-11	1.000E+00	3.117E-02
560	ED2MOD07	2	3.050E-04	7.213E-11	2.409E-07	2.410E-07	7.211E-11	1.000E+00	2.993E-02
561	ED2MOD13	2	3.170E-04	7.192E-11	2.409E-07	2.410E-07	7.190E-11	1.000E+00	2.984E-02
562	ED2MOD06	2	3.480E-04	7.184E-11	2.409E-07	2.410E-07	7.181E-11	1.000E+00	2.981E-02
563	PLB0302ASA	4	1.160E-03	6.776E-11	2.409E-07	2.410E-07	6.768E-11	1.000E+00	2.809E-02
564	SWBMOD11P	6	1.410E-02	6.383E-11	2.409E-07	2.410E-07	6.293E-11	1.000E+00	2.612E-02
565	CMBAV015LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	6.229E-11	1.000E+00	2.586E-02
566	CMBAV014LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	6.229E-11	1.000E+00	2.586E-02
567	CASMOD03	10	2.310E-02	6.295E-11	2.409E-07	2.410E-07	6.150E-11	1.000E+00	2.553E-02
568	IWBCV122AO	3	1.750E-03	5.297E-11	2.409E-07	2.410E-07	5.288E-11	1.000E+00	2.195E-02
569	IRWMOD07	3	1.460E-03	5.295E-11	2.409E-07	2.410E-07	5.287E-11	1.000E+00	2.194E-02
570	EC3BS003TM	1	2.700E-03	4.667E-11	2.409E-07	2.410E-07	4.654E-11	1.000E+00	1.932E-02
571	PLB0302BSA	2	1.160E-03	4.362E-11	2.409E-07	2.410E-07	4.357E-11	1.000E+00	1.808E-02
572	IWARS123BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	4.163E-11	1.000E+00	1.728E-02
573	IWCRS125BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	4.163E-11	1.000E+00	1.728E-02
574	VFSFRAC	16	1.200E-01	4.476E-11	2.409E-07	2.410E-07	3.939E-11	1.000E+00	1.635E-02
575	SGAAV040LA	2	1.090E-03	3.706E-11	2 409E-07	2.410E-07	3.702E-11	1.000E+00	1.537E-02
576	PMDMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3 510E-11	1.000E+00	1.457E-02
577	PMAMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3.510E-11	1.000E+00	1.457E-02
578	PLMMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3.510E-11	1.000E+00	1.457E-02
579	SFNMV067GC	14	1.100E-02	3.182E-11	2.409E-07	2.410E-07	3.147E-11	1.000E+00	1.306E-02
580	ATW-MAN01C	9	5.170E-01	5.922E-11	2.409E-07	2.409E-07	2.860E-11	1.000E+00	1.187E-02
581	ATW-MAN01	6	3.300E-02	1.802E-11	2.409E-07	2.409E-07	1.743E-11	1.000E+00	7.233E-03
582	CVX-MV-GC2	4	4.400E-03	1.684E-11	2.409E-07	2.409E-07	1.677E-11	1.000E+00	6.959E-03

Table 50-23 (Sheet 15 of 15)

RISK IMPORTANCES SORTED BY RISK INCREASE

583	CVN-MAN02	2	1.580E-03	1.570E-11	2.409E-07	2.409E-07	1.567E-11	1.000E+00	6.505E-03
584	CCAMOD02	1	7.100E-03	1.352E-11	2.409E-07	2.409E-07	1.343E-11	1.000E+00	5.572E-03
585	AD1MOD06	11	5.640E-02	1.251E-11	2.409E-07	2.409E-07	1.181E-11	1.000E+00	4.901E-03
586	SGBAV057LA	1	1.090E-03	1.000E-11	2.409E-07	2.409E-07	9.989E-12	1.000E+00	4.146E-03
587	TCBMOD01B	1	2.520E-02	5.000E-12	2.409E-07	2.409E-07	4.874E-12	1.000E+00	2.023E-03
588	IDBMOD27	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	1.000E+00	1.613E-03
589	IDCMOD31	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	1.000E+00	1.613E-03
590	IDDMOD35	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	1.000E+00	1.613E-03
591	IDAMOD07	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	1.000E+00	1.613E-03
592	CVNMV091GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.280E-12	1.000E+00	9.464E-04
593	CVNMV090GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.280E-12	1.000E+00	9.464E-04
594	ATW-MAN06	1	5.200E-03	2.173E-12	2.409E-07	2.409E-07	2.162E-12	1.000E+00	8.973E-04
595	AD1MOD05	6	5.640E-02	1.555E-12	2.409E-07	2.409E-07	1.467E-12	1.000E+00	6.090E-04
596	SGBAV250LA	1	8.760E-03	1.244E-12	2.409E-07	2.409E-07	1.233E-12	1.000E+00	5.119E-04
597	SGBCV058GC	1	2.450E-02	4.449E-13	2.409E-07	2.409E-07	4.340E-13	1.000E+00	1.801E-04
598	IEV-ATW-T	13	1.170E+00	6.086E-10	2.402E-07	2.408E-07	-1.035E-10	9.996E-01	-4.294E-02
599	IEV-TRANS	1500	1.400E+00	2.203E-09	2.378E-07	2.400E-07	-8.814E-10	9.963E-01	-3.658E-01

Table 50-24 (Sheet 1 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

SORTED BY RISK DECREASE IMPORTANCE

	BASIC EVENT ID	CUTSETS	BEV PROB. Q	BIRN A	CMF0 B	CMF1	RDEC	RRW	FV	WRDEC %
1	IEV-SI-LB	1160	2.120E-04	4.480E-04	1.459E-07	4.482E-04	9.499E-08	1.651E+00	3.943E-01	39.43
2	IWA-PLUG	68	2.400E-04	2.121E-04	1.900E-07	2.123E-04	5.091E-08	1.268E+00	2.113E-01	21.13
3	IEV-LLOCA	286	5.000E-06	8.958E-03	1.960E-07	8.958E-03	4.496E-08	1.229E+00	1.866E-01	18.66
4	IEV-SPADS	1078	5.400E-05	5.476E-04	2.113E-07	5.478E-04	2.958E-08	1.140E+00	1.228E-01	12.28
5	ADX-EV-SA2	1607	5.900E-05	3.898E-04	2.179E-07	3.900E-04	2.300E-08	1.106E+00	9.547E-02	9.55
6	IEV-SLOCA	1638	5.000E-04	3.616E-05	2.228E-07	3.638E-05	1.808E-08	1.081E+00	7.504E-02	7.50
7	REX-FL-GP	849	1.200E-05	1.474E-03	2.232E-07	1.474E-03	1.770E-08	1.079E+00	7.346E-02	7.35
8	IEV-MLOCA	1681	4.360E-04	3.696E-05	2.248E-07	3.718E-05	1.611E-08	1.072E+00	6.688E-02	6.69
9	ADX-EV-SA	1678	3.000E-05	3.949E-04	2.291E-07	3.952E-04	1.185E-08	1.052E+00	4.918E-02	4.92
10	IWX-CV-AO	1617	3.000E-05	3.929E-04	2.291E-07	3.931E-04	1.179E-08	1.051E+00	4.893E-02	4.89
11	IWX-EV-SA	1686	2.600E-05	3.993E-04	2.305E-07	3.996E-04	1.038E-08	1.045E+00	4.310E-02	4.31
12	IEV-RV-RP	1	1.000E-08	1.000E+00	2.309E-07	1.000E+00	1.000E-08	1.043E+00	4.151E-02	4.15
13	ACACV028GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	9.688E-09	1.042E+00	4.021E-02	4.02
14	ACACV029GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	9.688E-09	1.042E+00	4.021E-02	4.02
15	ACBCV029GO	73	1.750E-03	5.230E-06	2.318E-07	5.462E-06	9.153E-09	1.039E+00	3.799E-02	3.80
16	ACBCV028GO	73	1.750E-03	5.230E-06	2.318E-07	5.462E-06	9.153E-09	1.039E+00	3.799E-02	3.80
17	REC-MANDASC	723	5.060E-01	1.516E-08	2.333E-07	2.484E-07	7.669E-09	1.033E+00	3.183E-02	3.18
18	IWX-XMTR	560	4.780E-04	1.495E-05	2.338E-07	1.518E-05	7.146E-09	1.031E+00	2.966E-02	2.97
19	REN-MAN04	495	1.000E-02	7.033E-07	2.339E-07	9.372E-07	7.033E-09	1.030E+00	2.919E-02	2.92
20	CCX-INPUT-LOGIC	43	1.030E-04	6.635E-05	2.341E-07	6.659E-05	6.834E-09	1.029E+00	2.837E-02	2.84
21	IEV-SGTR	3076	3.880E-03	1.751E-06	2.341E-07	1.985E-06	6.792E-09	1.029E+00	2.819E-02	2.82
22	RPX-CB-GO	426	4.200E-04	1.223E-05	2.358E-07	1.246E-05	5.135E-09	1.022E+00	2.131E-02	2.13
23	CCX-AV-LA	133	6.200E-05	6.786E-05	2.367E-07	6.810E-05	4.207E-09	1.018E+00	1.746E-02	1.75
24	CCX-XMTR	579	4.780E-04	8.755E-06	2.367E-07	8.992E-06	4.185E-09	1.018E+00	1.737E-02	1.74
25	CCX-XMTR195	280	4.780E-04	8.449E-06	2.369E-07	8.686E-06	4.039E-09	1.017E+00	1.676E-02	1.68
26	ACAOR001SP	95	7.270E-04	5.542E-06	2.369E-07	5.779E-06	4.029E-09	1.017E+00	1.672E-02	1.67
27	ACBOR001SP	35	7.270E-04	5.237E-06	2.371E-07	5.474E-06	3.807E-09	1.016E+00	1.580E-02	1.58
28	IEV-CMTLB	987	9.310E-05	3.954E-05	2.372E-07	3.978E-05	3.682E-09	1.016E+00	1.528E-02	1.53
29	ATW-MAN03	104	5.200E-02	7.075E-08	2.372E-07	3.080E-07	3.679E-09	1.016E+00	1.527E-02	1.53
30	IEV-ATWS	136	4.810E-01	7.495E-09	2.373E-07	2.448E-07	3.605E-09	1.015E+00	1.496E-02	1.50
31	ATW-MAN04C	34	5.260E-01	6.695E-09	2.374E-07	2.441E-07	3.522E-09	1.015E+00	1.462E-02	1.46
32	ADX-MV3-GO	2324	3.240E-04	1.033E-05	2.376E-07	1.056E-05	3.346E-09	1.014E+00	1.389E-02	1.39
33	CMX-CV-GO	93	5.100E-05	6.542E-05	2.376E-07	6.565E-05	3.336E-09	1.014E+00	1.385E-02	1.38
34	IEV-TRANS	1500	1.400E+00	2.203E-09	2.378E-07	2.400E-07	3.085E-09	1.013E+00	1.280E-02	1.28
35	ACX-CV-GO	179	5.100E-05	5.958E-05	2.379E-07	5.982E-05	3.038E-09	1.013E+00	1.261E-02	1.26
36	RN11MOD3	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	2.649E-09	1.011E+00	1.100E-02	1.10
37	RN22MOD4	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	2.649E-09	1.011E+00	1.100E-02	1.10

Table 50-24 (Sheet 2 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

38	RN23MOD5	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	2.649E-09	1.011E+00	1.100E-02	1.10
39	RN55MOD1	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	2.649E-09	1.011E+00	1.100E-02	1.10
40	OTH-SGTR	989	1.000E-02	2.599E-07	2.383E-07	4.982E-07	2.599E-09	1.011E+00	1.079E-02	1.08
41	CMX-VS-FA	75	3.840E-05	6.542E-05	2.384E-07	6.566E-05	2.512E-09	1.011E+00	1.043E-02	1.04
42	CIB-MAN00	320	1.840E-03	1.288E-06	2.386E-07	1.527E-06	2.370E-09	1.010E+00	9.838E-03	0.98
43	ADN-MAN01	680	3.020E-03	7.843E-07	2.386E-07	1.023E-06	2.369E-09	1.010E+00	9.832E-03	0.98
44	CCX-SFTW	262	1.200E-06	1.904E-03	2.386E-07	1.905E-03	2.287E-09	1.010E+00	9.494E-03	0.95
45	IWX-FL-GP	993	1.200E-05	1.797E-04	2.388E-07	1.799E-04	2.156E-09	1.009E+00	8.951E-03	0.90
46	CCX-PMXMOD1-SW	347	1.100E-05	1.926E-04	2.388E-07	1.929E-04	2.119E-09	1.009E+00	8.795E-03	0.88
47	EC1BS001TM	1288	2.700E-03	7.530E-07	2.389E-07	9.918E-07	2.033E-09	1.009E+00	8.438E-03	0.84
48	ADN-MAN01C	13	5.000E-01	3.993E-09	2.389E-07	2.429E-07	1.996E-09	1.008E+00	8.287E-03	0.83
49	OTH-SLSOV1	557	2.100E-02	9.277E-08	2.390E-07	3.317E-07	1.948E-09	1.008E+00	8.086E-03	0.81
50	CLP-UNAVAILABLE	299	1.000E-02	1.876E-07	2.390E-07	4.267E-07	1.876E-09	1.008E+00	7.787E-03	0.78
51	EC1BS012TM	1041	2.700E-03	6.818E-07	2.391E-07	9.209E-07	1.841E-09	1.008E+00	7.641E-03	0.76
52	REC-MANDAS	381	1.160E-02	1.574E-07	2.391E-07	3.965E-07	1.825E-09	1.008E+00	7.577E-03	0.76
53	MDAS	799	1.000E-02	1.800E-07	2.391E-07	4.191E-07	1.800E-09	1.008E+00	7.471E-03	0.75
54	PXX-AV-LA1	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.785E-09	1.007E+00	7.410E-03	0.74
55	PXX-AV-LA	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.785E-09	1.007E+00	7.410E-03	0.74
56	CCX-BY-PN	968	4.700E-05	3.777E-05	2.391E-07	3.801E-05	1.775E-09	1.007E+00	7.368E-03	0.74
57	IWACV124AO	26	1.750E-03	9.998E-07	2.392E-07	1.239E-06	1.750E-09	1.007E+00	7.263E-03	0.73
58	IWACV122AO	20	1.750E-03	9.997E-07	2.392E-07	1.239E-06	1.749E-09	1.007E+00	7.262E-03	0.73
59	IEV-RCSLK	1526	6.200E-03	2.750E-07	2.392E-07	5.142E-07	1.705E-09	1.007E+00	7.078E-03	0.71
60	CMA-PLUG	65	7.270E-04	2.319E-06	2.392E-07	2.559E-06	1.686E-09	1.007E+00	6.999E-03	0.70
61	IEV-POWEX	701	4.500E-03	3.687E-07	2.393E-07	6.080E-07	1.659E-09	1.007E+00	6.887E-03	0.69
62	CCX-EP-SAM	298	8.620E-06	1.921E-04	2.393E-07	1.923E-04	1.656E-09	1.007E+00	6.873E-03	0.69
63	OTH-PRSOV	664	1.000E-02	1.653E-07	2.393E-07	4.046E-07	1.653E-09	1.007E+00	6.861E-03	0.69
64	LPM-MAN01C	5	5.000E-01	3.044E-09	2.394E-07	2.424E-07	1.522E-09	1.006E+00	6.317E-03	0.63
65	LPM-MAN02	282	3.300E-03	4.557E-07	2.394E-07	6.951E-07	1.504E-09	1.006E+00	6.242E-03	0.62
66	IRWMOD06	21	1.460E-03	1.000E-06	2.395E-07	1.240E-06	1.460E-09	1.006E+00	6.062E-03	0.61
67	IRWMOD05	17	1.460E-03	1.000E-06	2.395E-07	1.240E-06	1.460E-09	1.006E+00	6.061E-03	0.61
68	IEV-LCOND	858	1.120E-01	1.111E-08	2.397E-07	2.508E-07	1.244E-09	1.005E+00	5.163E-03	0.52
69	IWX-EV1-SA	1	5.800E-06	2.121E-04	2.397E-07	2.123E-04	1.230E-09	1.005E+00	5.105E-03	0.51
70	ED3MOD07	387	3.050E-04	3.840E-06	2.397E-07	4.080E-06	1.171E-09	1.005E+00	4.861E-03	0.49
71	ADF-MAN01	374	5.000E-01	2.029E-09	2.399E-07	2.419E-07	1.015E-09	1.004E+00	4.212E-03	0.42
72	DAS	322	1.000E-02	1.007E-07	2.399E-07	3.406E-07	1.007E-09	1.004E+00	4.179E-03	0.42
73	IEV-LOSP	530	1.200E-01	7.981E-09	2.400E-07	2.479E-07	9.577E-10	1.004E+00	3.975E-03	0.40
74	OTH-R05	530	7.000E-01	1.368E-09	2.400E-07	2.413E-07	9.577E-10	1.004E+00	3.975E-03	0.40
75	CANTP011RI	705	5.230E-03	1.770E-07	2.400E-07	4.170E-07	9.255E-10	1.004E+00	3.841E-03	0.38
76	RNX-KV1-GO	207	4.900E-03	1.869E-07	2.400E-07	4.269E-07	9.160E-10	1.004E+00	3.802E-03	0.38
77	IWBRS123AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	8.761E-10	1.004E+00	3.636E-03	0.36
78	IWDRS125AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	8.761E-10	1.004E+00	3.636E-03	0.36
79	IEV-LMFW	1334	3.350E-01	2.596E-09	2.401E-07	2.426E-07	8.697E-10	1.004E+00	3.610E-03	0.36

Table 50-24 (Sheet 3 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

80	CVN-MAN00	33	3.100E-03	2.673E-07	2.401E-07	5.074E-07	8.285E-10	1.003E+00	3.439E-03	0.34
81	IDBBSDS1TM	606	3.000E-04	2.566E-06	2.402E-07	2.806E-06	7.697E-10	1.003E+00	3.195E-03	0.32
82	IDBBSDD1TM	581	3.000E-04	2.561E-06	2.402E-07	2.801E-06	7.683E-10	1.003E+00	3.189E-03	0.32
83	CIB-MAN01	280	1.340E-03	5.540E-07	2.402E-07	7.941E-07	7.423E-10	1.003E+00	3.081E-03	0.31
84	IEV-ATW-T	13	1.170E+00	6.086E-10	2.402E-07	2.408E-07	7.120E-10	1.003E+00	2.955E-03	0.30
85	ATW-MAN05	5	5.200E-03	1.369E-07	2.402E-07	3.771E-07	7.118E-10	1.003E+00	2.954E-03	0.30
86	ATW-MAN06C	1	5.000E-01	1.390E-09	2.402E-07	2.416E-07	6.950E-10	1.003E+00	2.885E-03	0.29
87	CCX-IN-LOGIC-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.896E-10	1.003E+00	2.862E-03	0.29
88	CCX-PMXMOD2-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.896E-10	1.003E+00	2.862E-03	0.29
89	IEV-LCAS	417	3.480E-02	1.932E-08	2.402E-07	2.596E-07	6.725E-10	1.003E+00	2.791E-03	0.28
90	IDDBSDS1TM	253	3.000E-04	2.058E-06	2.403E-07	2.299E-06	6.175E-10	1.003E+00	2.563E-03	0.26
91	IDDBSDD1TM	207	3.000E-04	2.053E-06	2.403E-07	2.293E-06	6.159E-10	1.003E+00	2.557E-03	0.26
92	IEV-SLB-V	305	1.210E-03	5.010E-07	2.403E-07	7.414E-07	6.063E-10	1.003E+00	2.516E-03	0.25
93	RHN-MAN01	168	2.900E-03	1.864E-07	2.404E-07	4.268E-07	5.405E-10	1.002E+00	2.244E-03	0.22
94	REG-MAN00	232	2.040E-01	2.560E-09	2.404E-07	2.430E-07	5.223E-10	1.002E+00	2.168E-03	0.22
95	EC1BS122TM	235	2.700E-03	1.879E-07	2.404E-07	4.283E-07	5.073E-10	1.002E+00	2.106E-03	0.21
96	IEV-PRSTR	317	1.340E-04	3.743E-06	2.404E-07	3.983E-06	5.015E-10	1.002E+00	2.082E-03	0.21
97	RNAMOD09	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	4.784E-10	1.002E+00	1.986E-03	0.20
98	RNBMOD10	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	4.784E-10	1.002E+00	1.986E-03	0.20
99	EC0MOD01	1460	5.080E-03	9.180E-08	2.405E-07	3.323E-07	4.663E-10	1.002E+00	1.936E-03	0.19
100	OTH-SLSOV	321	1.100E-02	4.159E-08	2.405E-07	2.821E-07	4.575E-10	1.002E+00	1.899E-03	0.19
101	IEV-LMFW1	763	1.920E-01	2.359E-09	2.405E-07	2.428E-07	4.528E-10	1.002E+00	1.880E-03	0.19
102	LPM-MAN01	227	1.340E-03	3.085E-07	2.405E-07	5.490E-07	4.134E-10	1.002E+00	1.716E-03	0.17
103	CCX-TRNSM	556	4.780E-04	8.126E-07	2.405E-07	1.053E-06	3.884E-10	1.002E+00	1.612E-03	0.16
104	AD4MOD08	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	3.834E-10	1.002E+00	1.591E-03	0.16
105	AD4MOD07	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	3.834E-10	1.002E+00	1.591E-03	0.16
106	AD4MOD09	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	3.834E-10	1.002E+00	1.591E-03	0.16
107	AD4MOD10	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	3.834E-10	1.002E+00	1.591E-03	0.16
108	IDABSDS1TM	264	3.000E-04	1.197E-06	2.406E-07	1.437E-06	3.590E-10	1.001E+00	1.490E-03	0.15
109	IDABSDD1TM	239	3.000E-04	1.192E-06	2.406E-07	1.433E-06	3.577E-10	1.001E+00	1.485E-03	0.15
110	IDCBSDS1TM	333	3.000E-04	1.094E-06	2.406E-07	1.334E-06	3.281E-10	1.001E+00	1.362E-03	0.14
111	IDCBSDD1TM	308	3.000E-04	1.089E-06	2.406E-07	1.330E-06	3.268E-10	1.001E+00	1.356E-03	0.14
112	RNNCV013GO	142	1.750E-03	1.857E-07	2.406E-07	4.263E-07	3.249E-10	1.001E+00	1.349E-03	0.13
113	IEV-LCCW	690	1.440E-01	2.241E-09	2.406E-07	2.428E-07	3.228E-10	1.001E+00	1.340E-03	0.13
114	EC2BS002TM	501	2.700E-03	1.173E-07	2.406E-07	3.579E-07	3.166E-10	1.001E+00	1.314E-03	0.13
115	EC2BS022TM	337	2.700E-03	1.048E-07	2.406E-07	3.454E-07	2.829E-10	1.001E+00	1.174E-03	0.12
116	ZO1DG001TM	762	4.600E-02	5.727E-09	2 407E-07	2.464E-07	2.634E-10	1.001E+00	1.093E-03	0.11
117	RNAMOD06	312	3.400E-02	7.420E-09	2.407E-07	2.481E-07	2.523E-10	1.001E+00	1.047E-03	0.10
118	EC2BS221TM	260	2.700E-03	9.117E-08	2.407E-07	3.318E-07	2.462E-10	1.001E+00	1.022E-03	0.10
119	CIX-AV-LA	194	7.700E-04	3.134E-07	2.407E-07	5.541E-07	2.413E-10	1.001E+00	1.002E-03	0.10
120	RNBMOD07	199	3.400E-02	6.901E-09	2.407E-07	2.476E-07	2.346E-10	1.001E+00	9.739E-04	0.10
121	EC1BS121TM	258	2.700E-03	8.138E-08	2.407E-07	3.221E-07	2.197E-10	1.001E+00	9.120E-04	0.09

Table 50-24 (Sheet 4 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

122	VWBMOD05	158	2.190E-02	9.985E-09	2.407E-07	2.507E-07	2.187E-10	1.001E+00	9.076E-04	0.09
123	CMX-AV-LA	36	9.600E-05	2.273E-06	2.407E-07	2.514E-06	2.182E-10	1.001E+00	9.058E-04	0.09
124	VWBMOD04	141	1.830E-02	9.910E-09	2.407E-07	2.506E-07	1.814E-10	1.001E+00	7.527E-04	0.08
125	RC1CB063GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	1.604E-10	1.001E+00	6.658E-04	0.07
126	RC1CB061GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	1.604E-10	1.001E+00	6.658E-04	0.07
127	RC1CB053GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	1.604E-10	1.001E+00	6.658E-04	0.07
128	RC1CB051GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	1.604E-10	1.001E+00	6.658E-04	0.07
129	OTH-SDMAN	96	7.700E-04	2.036E-07	2.408E-07	4.444E-07	1.568E-10	1.001E+00	6.508E-04	0.07
130	CVMOD04	111	7.370E-04	2.101E-07	2.408E-07	4.509E-07	1.548E-10	1.001E+00	6.427E-04	0.06
131	CCX-XMTR1	153	4.780E-04	3.124E-07	2.408E-07	5.531E-07	1.493E-10	1.001E+00	6.198E-04	0.06
132	SGBAV040LA	276	1.090E-03	1.346E-07	2.408E-07	3.754E-07	1.467E-10	1.001E+00	6.091E-04	0.06
133	RNX-PM-FS	102	7.700E-04	1.838E-07	2.408E-07	4.246E-07	1.415E-10	1.001E+00	5.875E-04	0.06
134	OTH-SLSOV2	97	1.000E-02	1.399E-08	2.408E-07	2.548E-07	1.399E-10	1.001E+00	5.807E-04	0.06
135	IEV-SLB-U	160	3.720E-04	3.513E-07	2.408E-07	5.921E-07	1.307E-10	1.001E+00	5.425E-04	0.05
136	RC1CB052GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	1.299E-10	1.001E+00	5.391E-04	0.05
137	RC1CB054GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	1.299E-10	1.001E+00	5.391E-04	0.05
138	RC1CB064GO	146	4.200E-03	3.072E-08	2.408E-07	2.715E-07	1.290E-10	1.001E+00	5.355E-04	0.05
139	RC1CB062GO	146	4.200E-03	3.072E-08	2.408E-07	2.715E-07	1.290E-10	1.001E+00	5.355E-04	0.05
140	CANCV015GC	415	2.450E-02	4.976E-09	2.408E-07	2.458E-07	1.219E-10	1.001E+00	5.060E-04	0.05
141	CVBPM01BTM	68	2.190E-02	5.457E-09	2.408E-07	2.463E-07	1.195E-10	1.000E+00	4.961E-04	0.05
142	IWX-CV1-AO	1	5.400E-07	2.111E-04	2.408E-07	2.114E-04	1.140E-10	1.000E+00	4.732E-04	0.05
143	RNX-KV-GO	92	6.100E-04	1.833E-07	2.408E-07	4.241E-07	1.118E-10	1.000E+00	4.640E-04	0.05
144	IEV-ATW-S	55	1.480E-02	7.475E-09	2.408E-07	2.483E-07	1.106E-10	1.000E+00	4.592E-04	0.05
145	CCX-TT-UF	139	1.170E-04	9.364E-07	2.408E-07	1.177E-06	1.096E-10	1.000E+00	4.547E-04	0.05
146	MSHTP002RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	1.074E-10	1.000E+00	4.460E-04	0.04
147	MSHTP001RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	1.074E-10	1.000E+00	4.460E-04	0.04
148	ZO1MOD01	439	2.020E-02	5.150E-09	2.408E-07	2.460E-07	1.040E-10	1.000E+00	4.318E-04	0.04
149	REA-PLUG	232	2.400E-04	4.173E-07	2.408E-07	6.581E-07	1.002E-10	1.000E+00	4.157E-04	0.04
150	REB-PLUG	212	2.400E-04	4.090E-07	2.408E-07	6.498E-07	9.816E-11	1.000E+00	4.074E-04	0.04
151	CCX-PMS-HARDWARE	52	7.890E-05	1.179E-06	2.408E-07	1.420E-06	9.302E-11	1.000E+00	3.861E-04	0.04
152	OTH-MGSET	29	1.750E-03	5.281E-08	2.408E-07	2.936E-07	9.242E-11	1.000E+00	3.836E-04	0.04
153	CVMOD05	163	2.880E-02	3.197E-09	2.408E-07	2.440E-07	9.207E-11	1.000E+00	3.821E-04	0.04
154	CVMOD07	148	2.710E-02	3.195E-09	2.408E-07	2.440E-07	8.660E-11	1.000E+00	3.594E-04	0.04
155	OTH-PRES	52	2.000E-03	4.121E-08	2.408E-07	2.821E-07	8.243E-11	1.000E+00	3.421E-04	0.03
156	OTH-SLSOV3	511	5.400E-03	1.519E-08	2.408E-07	2.560E-07	8.201E-11	1.000E+00	3.404E-04	0.03
157	OTH-SGTR1	75	6.700E-03	1.196E-08	2.408E-07	2.528E-07	8.014E-11	1.000E+00	3.326E-04	0.03
158	ED1MOD113	119	3.170E-04	2.510E-07	2.408E-07	4.919E-07	7.958E-11	1.000E+00	3.303E-04	0.03
159	ED1MOD11	119	3.170E-04	2.510E-07	2.408E-07	4.919E-07	7.958E-11	1.000E+00	3.303E-04	0.03
160	ED1BSDS1TM	137	3.000E-04	2.641E-07	2.408E-07	5.050E-07	7.924E-11	1.000E+00	3.289E-04	0.03
161	EC1BS013TM	192	2.700E-03	2.534E-08	2.409E-07	2.662E-07	6.842E-11	1.000E+00	2.840E-04	0.03
162	ZO2DG002TM	230	4.600E-02	1.468E-09	2.409E-07	2.423E-07	6.755E-11	1.000E+00	2.804E-04	0.03
163	CANAV014LA	88	8.760E-03	7.581E-09	2.409E-07	2.484E-07	6.641E-11	1.000E+00	2.756E-04	0.03

Table 50-24 (Sheet 5 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

164	EC1BS011TM	329	2.700E-03	2.448E-08	2.409E-07	2.653E-07	6.608E-11	1.000E+00	2.743E-04	0.03
165	IDABSDK1TM	71	3.000E-04	2.037E-07	2.409E-07	4.445E-07	6.110E-11	1.000E+00	2.536E-04	0.03
166	CVMOD03	44	1.120E-02	5.308E-09	2.409E-07	2.462E-07	5.945E-11	1.000E+00	2.468E-04	0.02
167	ED1MOD03	168	2.700E-03	2.142E-08	2.409E-07	2.623E-07	5.783E-11	1.000E+00	2.400E-04	0.02
168	PRAMOD9	51	1.410E-02	4.007E-09	2.409E-07	2.449E-07	5.650E-11	1.000E+00	2.345E-04	0.02
169	IDBBSDK1TM	64	3.000E-04	1.803E-07	2.409E-07	4.212E-07	5.410E-11	1.000E+00	2.246E-04	0.02
170	SWN-MAN03	55	4.000E-02	1.333E-09	2.409E-07	2.422E-07	5.333E-11	1.000E+00	2.214E-04	0.02
171	ADX-MV-GO	75	7.480E-04	6.857E-08	2.409E-07	3.094E-07	5.129E-11	1.000E+00	2.129E-04	0.02
172	IEV-ISLOC	1	5.000E-11	1.000E+00	2.409E-07	1.000E+00	5.000E-11	1.000E+00	2.075E-04	0.02
173	EC2BS023TM	101	2.700E-03	1.795E-08	2.409E-07	2.588E-07	4.846E-11	1.000E+00	2.011E-04	0.02
174	IRWMOD09	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	4.728E-11	1.000E+00	1.963E-04	0.02
175	IRWMOD11	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	4.728E-11	1.000E+00	1.963E-04	0.02
176	VWBMOD06	33	5.180E-03	8.939E-09	2.409E-07	2.498E-07	4.630E-11	1.000E+00	1.922E-04	0.02
177	VWN-MAN01	33	5.160E-03	8.947E-09	2.409E-07	2.498E-07	4.617E-11	1.000E+00	1.916E-04	0.02
178	CVMOD01	75	2.210E-04	2.013E-07	2.409E-07	4.421E-07	4.448E-11	1.000E+00	1.846E-04	0.02
179	CCX-PLSMOD6	84	2.530E-04	1.636E-07	2.409E-07	4.045E-07	4.140E-11	1.000E+00	1.718E-04	0.02
180	SWAMOD09T	82	2.520E-04	1.624E-07	2.409E-07	4.032E-07	4.091E-11	1.000E+00	1.698E-04	0.02
181	PCNHR001ML	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	4.024E-11	1.000E+00	1.670E-04	0.02
182	IWNTK001AF	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	4.024E-11	1.000E+00	1.670E-04	0.02
183	CCX-IV-XR	160	2.400E-05	1.666E-06	2.409E-07	1.907E-06	3.999E-11	1.000E+00	1.660E-04	0.02
184	RNNCV056GO	61	2.190E-04	1.788E-07	2.409E-07	4.197E-07	3.916E-11	1.000E+00	1.625E-04	0.02
185	CCX-PMXMOD4-SW	54	1.100E-05	3.462E-06	2.409E-07	3.703E-06	3.808E-11	1.000E+00	1.581E-04	0.02
186	CDNTF01BRI	82	5.230E-03	7.195E-09	2.409E-07	2.481E-07	3.763E-11	1.000E+00	1.562E-04	0.02
187	CCX-PMDMOD1	119	1.410E-04	2.666E-07	2.409E-07	5.075E-07	3.759E-11	1.000E+00	1.560E-04	0.02
188	RCX-RB-FA	95	8.100E-06	4.578E-06	2.409E-07	4.819E-06	3.708E-11	1.000E+00	1.539E-04	0.02
189	OTH-PO	63	1.200E-04	3.078E-07	2.409E-07	5.487E-07	3.694E-11	1.000E+00	1.533E-04	0.02
190	IEV-LRCS	143	1.800E-02	1.957E-09	2.409E-07	2.428E-07	3.522E-11	1.000E+00	1.462E-04	0.01
191	CCX-PMAMOD1	124	1.410E-04	2.388E-07	2.409E-07	4.797E-07	3.367E-11	1.000E+00	1.397E-04	0.01
192	CMB-PLUG	11	7.270E-04	4.508E-08	2.409E-07	2.860E-07	3.277E-11	1.000E+00	1.360E-04	0.01
193	RPTMOD01	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.141E-11	1.000E+00	1.304E-04	0.01
194	RPTMOD03	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.141E-11	1.000E+00	1.304E-04	0.01
195	RPTMOD05	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.141E-11	1.000E+00	1.304E-04	0.01
196	RPTMOD07	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.141E-11	1.000E+00	1.304E-04	0.01
197	OTH-PRESU	15	2.000E-03	1.561E-08	2.409E-07	2.565E-07	3.121E-11	1.000E+00	1.295E-04	0.01
198	ATW-MAN01C	9	5.170E-01	5.922E-11	2.409E-07	2.409E-07	3.062E-11	1.000E+00	1.271E-04	0.01
199	RNBEP011SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	3.007E-11	1.000E+00	1.248E-04	0.01
200	RNDEP023SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	3.007E-11	1.000E+00	1.248E-04	0.01
201	RNAEP022SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	3.007E-11	1.000E+00	1.248E-04	0.01
202	AD2MOD01	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	2.993E-11	1.000E+00	1.242E-04	0.01
203	AD2MOD02	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	2.993E-11	1.000E+00	1.242E-04	0.01
204	AD3MOD04	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	2.993E-11	1.000E+00	1.242E-04	0.01
205	AD3MOD03	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	2.993E-11	1.000E+00	1.242E-04	0.01

Table 50-24 (Sheet 6 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

206	EC1BS131TM	62	2.700E-03	1.090E-08	2.409E-07	2.518E-07	2.942E-11	1.000E+00	1.221E-04	0.01
207	EC1BS112TM	62	2.700E-03	1.090E-08	2.409E-07	2.518E-07	2.942E-11	1.000E+00	1.221E-04	0.01
208	PRAAV108LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.908E-11	1.000E+00	1.207E-04	0.01
209	PRAAV130LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.908E-11	1.000E+00	1.207E-04	0.01
210	PRBAV130LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2.881E-11	1.000E+00	1.196E-04	0.01
211	PRBAV108LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2.881E-11	1.000E+00	1.196E-04	0.01
212	PMAMOD31	46	5.020E-03	5.707E-09	2.409E-07	2.466E-07	2.865E-11	1.000E+00	1.189E-04	0.01
213	PMBMOD32	46	5.020E-03	5.707E-09	2.409E-07	2.466E-07	2.865E-11	1.000E+00	1.189E-04	0.01
214	ZOX-PD-ES	93	2.000E-03	1.404E-08	2.409E-07	2.549E-07	2.809E-11	1.000E+00	1.166E-04	0.01
215	IWARS118BFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	2.790E-11	1.000E+00	1.158E-04	0.01
216	IWBRS118AFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	2.790E-11	1.000E+00	1.158E-04	0.01
217	EC2BS021TM	89	2.700E-03	1.033E-08	2.409E-07	2.512E-07	2.789E-11	1.000E+00	1.158E-04	0.01
218	FWMOD03A	184	1.700E-02	1.626E-09	2.409E-07	2.425E-07	2.764E-11	1.000E+00	1.147E-04	0.01
219	EC1MOD12	142	4.800E-05	5.589E-07	2.409E-07	7.998E-07	2.683E-11	1.000E+00	1.114E-04	0.01
220	CCX-PL3MOD1	59	1.410E-04	1.888E-07	2.409E-07	4.297E-07	2.662E-11	1.000E+00	1.105E-04	0.01
221	CCX-VS-FA	17	3.840E-05	6.787E-07	2.409E-07	9.196E-07	2.606E-11	1.000E+00	1.082E-04	0.01
222	IDBFD013RQ	83	1.200E-05	2.140E-06	2.409E-07	2.381E-06	2.568E-11	1.000E+00	1.066E-04	0.01
223	CCX-PMD030	107	9.690E-05	2.639E-07	2.409E-07	5.048E-07	2.557E-11	1.000E+00	1.061E-04	0.01
224	PMDMOD34	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	2.539E-11	1.000E+00	1.054E-04	0.01
225	PMCMOD33	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	2.539E-11	1.000E+00	1.054E-04	0.01
226	ZO2MOD01	112	2.020E-02	1.236E-09	2.409E-07	2.421E-07	2.496E-11	1.000E+00	1.036E-04	0.01
227	RPTMOD08	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.487E-11	1.000E+00	1.032E-04	0.01
228	RPTMOD06	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.487E-11	1.000E+00	1.032E-04	0.01
229	RPTMOD04	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.487E-11	1.000E+00	1.032E-04	0.01
230	RPTMOD02	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.487E-11	1.000E+00	1.032E-04	0.01
231	CCX-PL4MOD1	49	1.410E-04	1.757E-07	2.409E-07	4.166E-07	2.477E-11	1.000E+00	1.028E-04	0.01
232	EC2BS212TM	31	2.700E-03	8.884E-09	2.409E-07	2.498E-07	2.399E-11	1.000E+00	9.956E-05	0.01
233	EC2BS231TM	31	2.700E-03	8.884E-09	2.409E-07	2.498E-07	2.399E-11	1.000E+00	9.956E-05	0.01
234	FWMOD03B	154	1.700E-02	1.407E-09	2.409E-07	2.423E-07	2.392E-11	1.000E+00	9.927E-05	0.01
235	WLIAV004LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.349E-11	1.000E+00	9.750E-05	0.01
236	WLIAV055LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.349E-11	1.000E+00	9.750E-05	0.01
237	WLOAV006LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.349E-11	1.000E+00	9.750E-05	0.01
238	WLOAV057LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.349E-11	1.000E+00	9.750E-05	0.01
239	IDDFD019RQ	52	1.200E-05	1.955E-06	2.409E-07	2.196E-06	2.346E-11	1.000E+00	9.739E-05	0.01
240	CCX-PMA030	105	9.690E-05	2.354E-07	2.409E-07	4.763E-07	2.281E-11	1.000E+00	9.467E-05	0.01
241	FWMOD013A	155	1.410E-02	1.590E-09	2.409E-07	2.425E-07	2.242E-11	1.000E+00	9.307E-05	0.01
242	CCX-PL9MOD1	61	1.410E-04	1.557E-07	2.409E-07	3.966E-07	2.196E-11	1.000E+00	9.115E-05	0.01
243	PMAMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	2.187E-11	1.000E+00	9.077E-05	0.01
244	PMBMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	2.187E-11	1.000E+00	9.077E-05	0.01
245	PMCMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	2.187E-11	1.000E+00	9.077E-05	0.01
246	PMDMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	2.187E-11	1.000E+00	9.077E-05	0.01
247	FWX-MV2-GO	62	5.500E-04	3.900E-08	2.409E-07	2.799E-07	2.145E-11	1.000E+00	8.903E-05	0.01

Table 50-24 (Sheet 7 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

248	CASMOD02	101	2.310E-02	9.210E-10	2.409E-07	2.418E-07	2.128E-11	1.000E+00	8.831E-05	0 01
249	FWX-PM2-FS	62	5.400E-04	3.900E-08	2.409E-07	2.799E-07	2.106E-11	1.000E+00	8.741E-05	0.01
250	FWMOD013B	135	1.410E-02	1.384E-09	2.409E-07	2.423E-07	1.952E-11	1.000E+00	8.101E-05	0.01
251	OTH-BL	23	1.900E-01	9.931E-11	2.409E-07	2.410E-07	1.887E-11	1.000E+00	7.832E-05	0.01
252	CAX-CM-ER	58	1.200E-04	1.556E-07	2.409E-07	3.965E-07	1.867E-11	1.000E+00	7.749E-05	0.01
253	ED4MOD11	194	3.170E-04	5.482E-08	2.409E-07	2.957E-07	1.738E-11	1.000E+00	7.214E-05	0.01
254	CCX-PL303	41	9.690E-05	1.757E-07	2.409E-07	4.166E-07	1.702E-11	1.000E+00	7.066E-05	0.01
255	CCX-PL403	47	9.690E-05	1.745E-07	2.409E-07	4.154E-07	1.691E-11	1.000E+00	7.019E-05	0.01
256	PMDMOD11	186	2.090E-03	7.809E-09	2.409E-07	2.487E-07	1.632E-11	1.000E+00	6.775E-05	0.01
257	ED4BSDS1TM	190	3.000E-04	5.431E-08	2.409E-07	2.952E-07	1.629E-11	1.000E+00	6.762E-05	0.01
258	ED4MOD112	172	3.170E-04	5.050E-08	2.409E-07	2.914E-07	1.601E-11	1.000E+00	6.644E-05	0.01
259	CCX-PLMOD3	54	1.030E-04	1.552E-07	2.409E-07	3.961E-07	1.598E-11	1.000E+00	6.634E-05	0.01
260	PMAMOD11	190	2.090E-03	7.405E-09	2.409E-07	2.483E-07	1.548E-11	1.000E+00	6.424E-05	0.01
261	ATW-MAN04	26	5.200E-02	2.974E-10	2.409E-07	2.412E-07	1.547E-11	1.000E+00	6.419E-05	0.01
262	EC1CB100VO	133	4.200E-03	3.638E-09	2.409E-07	2.445E-07	1.528E-11	1.000E+00	6.342E-05	0.01
263	CCX-PL903	53	9.690E-05	1.551E-07	2.409E-07	3.960E-07	1.502E-11	1.000E+00	6.236E-05	0.01
264	CCX-PMBMOD1	75	1.410E-04	9.720E-08	2.409E-07	3.381E-07	1.371E-11	1.000E+00	5.689E-05	0.01
265	ACATK001AF	8	2.400E-06	5.505E-06	2.409E-07	5.746E-06	1.321E-11	1.000E+00	5.484E-05	0.01
266	IDAFD003RQ	45	1.200E-05	1.080E-06	2.409E-07	1.321E-06	1.296E-11	1.000E+00	5.381E-05	0.01
267	EC1BS111TM	163	2.700E-03	4.704E-09	2.409E-07	2.456E-07	1.270E-11	1.000E+00	5.272E-05	0.01
268	PMBMOD11	112	2.090E-03	6.037E-09	2.409E-07	2.469E-07	1.262E-11	1.000E+00	5.237E-05	0.01
269	ACBTK001AF	4	2.400E-06	5.228E-06	2.409E-07	5.469E-06	1.255E-11	1.000E+00	5.208E-05	0.01
270	CCX-PMDMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	1.229E-11	1.000E+00	5.099E-05	0.01
271	MSX-AV2-FA	44	2.310E-03	5.315E-09	2.409E-07	2.462E-07	1.228E-11	1.000E+00	5.096E-05	0.01
272	CCX-PMCMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	1.229E-11	1.000E+00	5.099E-05	0.01
273	CCX-PMBMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	1.229E-11	1.000E+00	5.099E-05	0.01
274	CCX-PMAMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	1.229E-11	1.000E+00	5.099E-05	0.01
275	CCX-EP-SA	46	8.620E-06	1.410E-06	2.409E-07	1.651E-06	1.215E-11	1.000E+00	5.045E-05	0.01
276	PMCMOD11	97	2.090E-03	5.729E-09	2.409E-07	2.466E-07	1.197E-11	1.000E+00	4.970E-05	0.00
277	ED3MOD01	102	5.040E-04	2.339E-08	2.409E-07	2.643E-07	1.179E-11	1.000E+00	4.893E-05	0.00
278	PRBAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	1.169E-11	1.000E+00	4.853E-05	0.00
279	PRBAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	1.169E-11	1.000E+00	4.853E-05	0.00
280	PRAAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	1.169E-11	1.000E+00	4.853E-05	0.00
281	PRAAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	1.169E-11	1.000E+00	4.853E-05	0.00
282	ED3MOD04	73	2.190E-02	5.306E-10	2.409E-07	2.414E-07	1.162E-11	1.000E+00	4.824E-05	0.00
283	CONDVACUUM	35	1.000E-03	1.132E-08	2.409E-07	2.522E-07	1.132E-11	1.000E+00	4.698E-05	0.00
284	IDCFD007RQ	35	1.200E-05	9.257E-07	2.409E-07	1.167E-06	1.111E-11	1.000E+00	4.611E-05	0.00
285	PL3MOD11	20	2.090E-03	5.297E-09	2.409E-07	2.462E-07	1.107E-11	1.000E+00	4.595E-05	0.00
286	CCBMOD01	48	4.800E-02	2.259E-10	2.409E-07	2.411E-07	1.084E-11	1.000E+00	4.500E-05	0.00
287	CCX-PL2MOD5	41	6.980E-05	1.527E-07	2.409E-07	3.936E-07	1.066E-11	1.000E+00	4.425E-05	0.00
288	CASMOD01	63	2.410E-03	4.384E-09	2.409E-07	2.453E-07	1.057E-11	1.000E+00	4.386E-05	0.00
289	CCX-PL3MOD5	40	6.980E-05	1.511E-07	2.409E-07	3.920E-07	1.055E-11	1.000E+00	4.378E-05	0.00

Table 50-24 (Sheet 8 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

290	IDBBSDS1LF	46	4 800E-06	2.063E-06	2.409E-07	2.304E-06	9.902E-12	1.000E+00	4.110E-05	0.00
291	IDBBSDD1LF	46	4.800E-06	2.063E-06	2.409E-07	2.304E-06	9.902E-12	1.000E+00	4.110E-05	0.00
292	SGBAV074LA	79	8.760E-03	1.089E-09	2.409E-07	2.420E-07	9.542E-12	1.000E+00	3.961E-05	0.00
293	SGBAV075LA	79	8.760E-03	1.089E-09	2.409E-07	2.420E-07	9.542E-12	1.000E+00	3.961E-05	0.00
294	IWB-PLUG	67	2.400E-04	3.961E-08	2.409E-07	2.805E-07	9.506E-12	1.000E+00	3.946E-05	0.00
295	CCX-PMDMOD4	29	4.980E-05	1.895E-07	2.409E-07	4.304E-07	9.435E-12	1.000E+00	3.916E-05	0.00
296	CCX-PMB030	63	9.690E-05	9.547E-08	2.409E-07	3.364E-07	9.251E-12	1.000E+00	3.840E-05	0.00
297	ED3MOD03	104	2.700E-03	3.426E-09	2.409E-07	2.443E-07	9.249E-12	1.000E+00	3.839E-05	0.00
298	IEV-SLB-D	18	5.960E-04	1.535E-08	2.409E-07	2.563E-07	9.150E-12	1.000E+00	3.798E-05	0.00
299	IDDBSDS1LF	31	4.800E-06	1.900E-06	2.409E-07	2.141E-06	9.119E-12	1.000E+00	3.785E-05	0.00
300	IDDBSDD1LF	31	4.800E-06	1.900E-06	2.409E-07	2.141E-06	9.119E-12	1.000E+00	3.785E-05	0.00
301	ED2MOD03	71	2.700E-03	3.370E-09	2.409E-07	2.443E-07	9.100E-12	1.000E+00	3.777E-05	0.00
302	ECX-CB-GC	48	7.300E-04	1.227E-08	2.409E-07	2.532E-07	8.957E-12	1.000E+00	3.718E-05	0.00
303	RNX-CV-GO	25	5.100E-05	1.699E-07	2.409E-07	4.108E-07	8.664E-12	1.000E+00	3.596E-05	0.00
304	CCX-PLMMOD4	31	4.980E-05	1.736E-07	2.409E-07	4.145E-07	8.645E-12	1.000E+00	3.588E-05	0.00
305	PL2MOD11	12	2.090E-03	4.127E-09	2.409E-07	2.450E-07	8.625E-12	1.000E+00	3.580E-05	0.00
306	CCX-PMAMOD4	29	4.980E-05	1.716E-07	2.409E-07	4.125E-07	8.544E-12	1.000E+00	3.546E-05	0.00
307	REBCV119GO	79	1.750E-03	4.693E-09	2.409E-07	2.456E-07	8.213E-12	1.000E+00	3.409E-05	0.00
308	REACV119GO	79	1.750E-03	4.693E-09	2.409E-07	2.456E-07	8.213E-12	1.000E+00	3.409E-05	0.00
309	SWB-001TM	34	3.800E-02	2.149E-10	2.409E-07	2.411E-07	8.168E-12	1.000E+00	3.390E-05	0.00
310	PMD0301ASA	113	1.160E-03	6.897E-09	2.409E-07	2.478E-07	8.001E-12	1.000E+00	3.321E-05	0.00
311	PMD0301BSA	103	1.160E-03	6.712E-09	2.409E-07	2.476E-07	7.786E-12	1.000E+00	3.232E-05	0.00
312	PMA0301ASA	110	1.160E-03	6.475E-09	2.409E-07	2.474E-07	7.511E-12	1.000E+00	3.117E-05	0.00
313	ALL-IND-FAIL	63	1.000E-06	7.487E-06	2.409E-07	7.728E-06	7.487E-12	1.000E+00	3.108E-05	0.00
314	CMX-TK-AF	5	1.200E-07	6.115E-05	2.409E-07	6.140E-05	7.339E-12	1.000E+00	3.046E-05	0.00
315	PMA0301BSA	100	1.160E-03	6.289E-09	2.409E-07	2.472E-07	7.296E-12	1.000E+00	3.028E-05	0.00
316	CVMOD02	13	1.410E-03	5.121E-09	2.409E-07	2.460E-07	7.220E-12	1.000E+00	2.997E-05	0.00
317	PRAMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	7.223E-12	1.000E+00	2.998E-05	0.00
318	PRBMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	7.223E-12	1.000E+00	2.998E-05	0.00
319	ACX-TK-AF	3	1.200E-07	5.918E-05	2.409E-07	5.942E-05	7.102E-12	1.000E+00	2.948E-05	0.00
320	IRWMOD12	71	1.460E-03	4.649E-09	2.409E-07	2.456E-07	6.788E-12	1.000E+00	2.818E-05	0.00
321	IRWMOD10	71	1.460E-03	4.649E-09	2.409E-07	2.456E-07	6.788E-12	1.000E+00	2.818E-05	0.00
322	CCX-PMCMOD1	53	1.410E-04	4.766E-08	2.409E-07	2.886E-07	6.720E-12	1.000E+00	2.789E-05	0.00
323	DUMP-MAN01	31	1.320E-03	4.945E-09	2.409E-07	2.459E-07	6.528E-12	1.000E+00	2.709E-05	0.00
324	SWAMOD03	44	6.340E-04	9.692E-09	2.409E-07	2.506E-07	6.145E-12	1.000E+00	2.550E-05	0.00
325	PMB0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	6.005E-12	1.000E+00	2.492E-05	0.00
326	PMC0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	6.005E-12	1.000E+00	2.492E-05	0.00
327	PMC0301BSA	58	1.160E-03	5.149E-09	2.409E-07	2.461E-07	5.973E-12	1.000E+00	2.479E-05	0.00
328	PMB0301BSA	58	1.160E-03	5.149E-09	2.409E-07	2.461E-07	5.973E-12	1.000E+00	2.479E-05	0.00
329	SG2TF50ARI	18	5.230E-03	1.120E-09	2.409E-07	2.420E-07	5.855E-12	1.000E+00	2.430E-05	0.00
330	CMAAV014LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	5.809E-12	1.000E+00	2.411E-05	0.00
331	CMAAV015LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	5.809E-12	1.000E+00	2.411E-05	0.00

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RISK IMPORTANCES SORTED BY RISK DECREASE

332	PL30301ASA	12	1.160E-03	4.756E-09	2.409E-07	2.457E-07	5.517E-12	1.000E+00	2.290E-05	0.00
333	CMATK002AF	17	2.400E-06	2.297E-06	2.409E-07	2.538E-06	5.513E-12	1.000E+00	2.288E-05	0.00
334	PL30301BSA	11	1.160E-03	4.670E-09	2.409E-07	2.456E-07	5.417E-12	1.000E+00	2.248E-05	0.00
335	VFSFRAC	16	1.200E-01	4.476E-11	2.409E-07	2.410E-07	5.371E-12	1.000E+00	2.229E-05	0.00
336	ED3BSDS1TM	65	3.000E-04	1.742E-08	2.409E-07	2.583E-07	5.226E-12	1.000E+00	2.169E-05	0.00
337	SWBMOD02	31	2.440E-02	2.109E-10	2.409E-07	2.411E-07	5.145E-12	1.000E+00	2.136E-05	0.00
338	IDABSDD1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	5.049E-12	1.000E+00	2.096E-05	0.00
339	IDABSDS1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	5.049E-12	1.000E+00	2.096E-05	0.00
340	ED1MOD01	35	5.040E-04	1.000E-08	2.409E-07	2.509E-07	5.041E-12	1.000E+00	2.092E-05	0.00
341	ED2MOD11	48	3.170E-04	1.576E-08	2.409E-07	2.567E-07	4.997E-12	1.000E+00	2.074E-05	0.00
342	ZOX-DG-DR	36	4.400E-04	1.115E-08	2.409E-07	2.521E-07	4.908E-12	1.000E+00	2.037E-05	0.00
343	ED2BSDS1TM	52	3.000E-04	1.633E-08	2.409E-07	2.572E-07	4.898E-12	1.000E+00	2.033E-05	0.00
344	IRCEP118ASA	9	1.710E-04	2.852E-08	2.409E-07	2.694E-07	4.877E-12	1.000E+00	2.024E-05	0.00
345	IRDEP118BSA	9	1.710E-04	2.852E-08	2.409E-07	2.694E-07	4.877E-12	1.000E+00	2.024E-05	0.00
346	CVX-PM-ER	7	3.700E-05	1.284E-07	2.409E-07	3.693E-07	4.749E-12	1.000E+00	1.971E-05	0.00
347	VWAMOD02	14	6.120E-04	7.732E-09	2.409E-07	2.486E-07	4.732E-12	1.000E+00	1.964E-05	0.00
348	ECX-CB-GO	34	4.200E-04	1.112E-08	2.409E-07	2.520E-07	4.669E-12	1.000E+00	1.938E-05	0.00
349	CCX-PLBMOD1	23	1.410E-04	3.295E-08	2.409E-07	2.739E-07	4.646E-12	1.000E+00	1.929E-05	0.00
350	PLMMOD41	33	6.350E-04	7.247E-09	2.409E-07	2.482E-07	4.602E-12	1.000E+00	1.910E-05	0.00
351	CMA-CV	16	2.000E-06	2.293E-06	2.409E-07	2.534E-06	4.585E-12	1.000E+00	1.903E-05	0.00
352	CCX-PMC030	43	9.690E-05	4.605E-08	2.409E-07	2.870E-07	4.462E-12	1.000E+00	1.852E-05	0.00
353	PL20301BSA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	4.433E-12	1.000E+00	1.840E-05	0.00
354	PL20301ASA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	4.433E-12	1.000E+00	1.840E-05	0.00
355	CCAMOD03	26	6.140E-04	7.159E-09	2.409E-07	2.481E-07	4.396E-12	1.000E+00	1.825E-05	0.00
356	CVN-MAN03	11	1.070E-03	4.064E-09	2.409E-07	2.450E-07	4.349E-12	1.000E+00	1.805E-05	0.00
357	IDCBSDS1LF	16	4.800E-06	8.887E-07	2.409E-07	1.130E-06	4.266E-12	1.000E+00	1.771E-05	0.00
358	IDCBSDD1LF	16	4.800E-06	8.887E-07	2.409E-07	1.130E-06	4.266E-12	1.000E+00	1.771E-05	0.00
359	IRBEP123ASA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	3.989E-12	1.000E+00	1.656E-05	0.00
360	IRBEP123BSA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	3.989E-12	1.000E+00	1.656E-05	0.00
361	ACAOR001EB	7	7.200E-07	5.492E-06	2.409E-07	5.733E-06	3.954E-12	1.000E+00	1.641E-05	0.00
362	ACBOR001EB	4	7.200E-07	5.228E-06	2.409E-07	5.469E-06	3.764E-12	1.000E+00	1.562E-05	0.00
363	IWDRS120AFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	3.616E-12	1.000E+00	1.501E-05	0.00
364	IWCRS120BFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	3.616E-12	1.000E+00	1.501E-05	0.00
365	IWX-EV4-SA	59	5.800E-05	5.999E-08	2.409E-07	3.009E-07	3.479E-12	1.000E+00	1.444E-05	0.00
366	IDDMOD32	67	3.170E-04	1.081E-08	2.409E-07	2.517E-07	3.428E-12	1.000E+00	1.423E-05	0.00
367	CCX-PM-ER	14	1.400E-05	2.430E-07	2.409E-07	4.839E-07	3.402E-12	1.000E+00	1.412E-05	0.00
368	PL4MOD11	71	2.090E-03	1.604E-09	2.409E-07	2.425E-07	3.353E-12	1.000E+00	1.392E-05	0.00
369	ZO1MOD04	47	1.250E-03	2.652E-09	2.409E-07	2.436E-07	3.315E-12	1.000E+00	1.376E-05	0.00
370	EC2MOD22	18	4.800E-05	6.821E-08	2.409E-07	3.091E-07	3.274E-12	1.000E+00	1.359E-05	0.00
371	MSMODV001	14	2.710E-02	1.201E-10	2.409E-07	2.410E-07	3.255E-12	1.000E+00	1.351E-05	0.00
372	MSMODV003	14	2.710E-02	1.201E-10	2.409E-07	2.410E-07	3.255E-12	1.000E+00	1.351E-05	0.00
373	IDAMOD04	53	3.170E-04	1.014E-08	2.409E-07	2.511E-07	3.215E-12	1.000E+00	1.335E-05	0.00

Table 50-24 (Sheet 10 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

374	CCX-PLB03	19	9.690E-05	3.260E-08	2.409E-07	2.735E-07	3.159E-12	1.000E+00	1.311E-05	0.00
375	EC2CB200VO	21	4.200E-03	7.334E-10	2.409E-07	2.417E-07	3.080E-12	1.000E+00	1.279E-05	0.00
376	IDDMOD33	63	5.160E-04	5.936E-09	2.409E-07	2.469E-07	3.063E-12	1.000E+00	1.271E-05	0.00
377	IDBMOD24	42	3.170E-04	9.625E-09	2.409E-07	2.505E-07	3.051E-12	1.000E+00	1.266E-05	0.00
378	IDCMOD28	42	3.170E-04	9.625E-09	2.409E-07	2.505E-07	3.051E-12	1.000E+00	1.266E-05	0.00
379	EC2BS222TM	29	2.700E-03	1.121E-09	2.409E-07	2.420E-07	3.026E-12	1.000E+00	1.256E-05	0.00
380	EC1MOD122	19	1.680E-05	1.681E-07	2.409E-07	4.090E-07	2.824E-12	1.000E+00	1.172E-05	0.00
381	ED1MOD13	31	3.170E-04	8.917E-09	2.409E-07	2.498E-07	2.827E-12	1.000E+00	1.173E-05	0.00
382	PL9MOD11	46	2.090E-03	1.318E-09	2.409E-07	2.422E-07	2.754E-12	1.000E+00	1.143E-05	0.00
383	ED1MOD07	31	3.050E-04	8.922E-09	2.409E-07	2.498E-07	2.721E-12	1.000E+00	1.130E-05	0.00
384	IDAMOD05	47	5.160E-04	5.203E-09	2.409E-07	2.461E-07	2.685E-12	1.000E+00	1.114E-05	0.00
385	RNX-PM-ER	19	1.600E-05	1.681E-07	2.409E-07	4.090E-07	2.689E-12	1.000E+00	1.116E-05	0.00
386	VFOAV009	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	2.686E-12	1.000E+00	1.115E-05	0.00
387	VFOAV003	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	2.686E-12	1.000E+00	1.115E-05	0.00
388	VFIAV010	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	2.686E-12	1.000E+00	1.115E-05	0.00
389	VFIAV004	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	2.686E-12	1.000E+00	1.115E-05	0.00
390	PL9MOD12	32	2.090E-03	1.220E-09	2.409E-07	2.421E-07	2.550E-12	1.000E+00	1.058E-05	0.00
391	FSMOD255A	14	5.800E-04	4.424E-09	2.409E-07	2.453E-07	2.566E-12	1.000E+00	1.065E-05	0.00
392	IDCMOD29	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	2.496E-12	1.000E+00	1.036E-05	0.00
393	IDBMOD25	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	2.496E-12	1.000E+00	1.036E-05	0.00
394	PLSMOD61	26	3.460E-03	7.103E-10	2.409E-07	2.416E-07	2.458E-12	1.000E+00	1.020E-05	0.00
395	PLSMOD62	20	3.460E-03	6.649E-10	2.409E-07	2.416E-07	2.300E-12	1.000E+00	9.548E-06	0.00
396	ZANMOD01	54	8.400E-05	2.733E-08	2.409E-07	2.682E-07	2.296E-12	1.000E+00	9.528E-06	0.00
397	AD4MOD10D	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.106E-12	1.000E+00	8.743E-06	0.00
398	AD4MOD09C	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.106E-12	1.000E+00	8.743E-06	0.00
399	AD4MOD07C	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.106E-12	1.000E+00	8.743E-06	0.00
400	AD4MOD08D	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.106E-12	1.000E+00	8.743E-06	0.00
401	PMAMOD12	56	2.090E-03	9.911E-10	2.409E-07	2.419E-07	2.071E-12	1.000E+00	8.598E-06	0.00
402	CCX-BC-SA	7	8.400E-06	2.451E-07	2.409E-07	4.860E-07	2.059E-12	1.000E+00	8.545E-06	0.00
403	ZOX-DG-DS	20	2.800E-04	7.319E-09	2.409E-07	2.482E-07	2.049E-12	1.000E+00	8.507E-06	0.00
404	IDAFD004RQ	19	1.200E-05	1.681E-07	2.409E-07	4.090E-07	2.017E-12	1.000E+00	8.374E-06	0.00
405	PMDMOD12	53	2.090E-03	9.717E-10	2.409E-07	2.419E-07	2.031E-12	1.000E+00	8.430E-06	0.00
406	IDBFD014RQ	19	1.200E-05	1.681E-07	2.409E-07	4.090E-07	2.017E-12	1.000E+00	8.374E-06	0.00
407	SWX-PM-ER	12	1.400E-05	1.391E-07	2.409E-07	3.800E-07	1.947E-12	1.000E+00	8.083E-06	0.00
408	CCX-PLMMOD4-SW	20	1.100E-05	1.694E-07	2.409E-07	4.104E-07	1.864E-12	1.000E+00	7.736E-06	0.00
409	CCX-PL4MOD1-SW	19	1.100E-05	1.682E-07	2.409E-07	4.091E-07	1.850E-12	1.000E+00	7.680E-06	0.00
410	EC1BS001LF	33	4.800E-06	3.745E-07	2.409E-07	6.155E-07	1.798E-12	1.000E+00	7.462E-06	0.00
411	CCX-EAI	10	1.270E-05	1.357E-07	2.409E-07	3.767E-07	1.724E-12	1.000E+00	7.155E-06	0.00
412	CMAOR001EB	14	7.200E-07	2.280E-06	2.409E-07	2.521E-06	1.642E-12	1.000E+00	6.815E-06	0.00
413	SGBOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	1.590E-12	1.000E+00	6.601E-06	0.00
414	SGAOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	1.590E-12	1.000E+00	6.601E-06	0.00
415	PL40301ASA	43	1.160E-03	1.319E-09	2.409E-07	2.422E-07	1.530E-12	1.000E+00	6.350E-06	0.00

Table 50-24 (Sheet 11 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

416	PL4MOD12	41	2.090E-03	7.288E-10	2.409E-07	2.416E-07	1.523E-12	1.000E+00	6.322E-06	0.00
417	CCX-PLSMOD6-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.495E-12	1.000E+00	6.204E-06	0.00
418	CCX-PLMOD3-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.495E-12	1.000E+00	6.204E-06	0.00
419	CCX-PL3MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.495E-12	1.000E+00	6.204E-06	0.00
420	CCX-PL9MOD1-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.495E-12	1.000E+00	6.204E-06	0.00
421	CCX-PL2MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.495E-12	1.000E+00	6.204E-06	0.00
422	VWAMOD01	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	1.451E-12	1.000E+00	6.023E-06	0.00
423	VWAMOD03	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	1.451E-12	1.000E+00	6.023E-06	0.00
424	CASMOD03	10	2.310E-02	6.295E-11	2.409E-07	2.410E-07	1.454E-12	1.000E+00	6.036E-06	0.00
425	PL40301BSA	35	1.160E-03	1.161E-09	2.409E-07	2.421E-07	1.347E-12	1.000E+00	5.591E-06	0.00
426	PL90301ASA	32	1.160E-03	1.127E-09	2.409E-07	2.420E-07	1.307E-12	1.000E+00	5.427E-06	0.00
427	CCX-BL-ER	2	1.200E-05	1.041E-07	2.409E-07	3.450E-07	1.249E-12	1.000E+00	5.184E-06	0.00
428	VWX-RF-ER	2	1.200E-05	1.041E-07	2.409E-07	3.450E-07	1.249E-12	1.000E+00	5.184E-06	0.00
429	CIAEP014SA	8	1.710E-04	7.147E-09	2.409E-07	2.481E-07	1.222E-12	1.000E+00	5.073E-06	0.00
430	PL90301BSA	28	1.160E-03	1.002E-09	2.409E-07	2.419E-07	1.162E-12	1.000E+00	4.824E-06	0.00
431	HPM-MAN01	6	5.020E-04	2.298E-09	2.409E-07	2.432E-07	1.153E-12	1.000E+00	4.787E-06	0.00
432	PL90302ASA	16	1.160E-03	9.731E-10	2.409E-07	2.419E-07	1.129E-12	1.000E+00	4.685E-06	0.00
433	CCX-PL3MOD1-SW	2	1.100E-05	1.040E-07	2.409E-07	3.449E-07	1.144E-12	1.000E+00	4.748E-06	0.00
434	PRI-MAN01	2	4.960E-04	2.250E-09	2.409E-07	2.432E-07	1.116E-12	1.000E+00	4.632E-06	0.00
435	EC2MOD221	8	1.680E-05	6.514E-08	2.409E-07	3.061E-07	1.094E-12	1.000E+00	4.543E-06	0.00
436	EC1MOD121	8	1.680E-05	6.514E-08	2.409E-07	3.061E-07	1.094E-12	1.000E+00	4.543E-06	0.00
437	PMAMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	1.096E-12	1.000E+00	4.549E-06	0.00
438	PMBMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	1.096E-12	1.000E+00	4.549E-06	0.00
439	PMDMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	1.096E-12	1.000E+00	4.549E-06	0.00
440	PMCMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	1.096E-12	1.000E+00	4.549E-06	0.00
441	PL7MOD12	2	2.090E-03	5.029E-10	2.409E-07	2.414E-07	1.051E-12	1.000E+00	4.362E-06	0.00
442	EC2BS211TM	28	2.700E-03	3.860E-10	2.409E-07	2.413E-07	1.042E-12	1.000E+00	4.326E-06	0.00
443	SGBTL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	1.066E-12	1.000E+00	4.423E-06	0.00
444	SGATL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	1.066E-12	1.000E+00	4.423E-06	0.00
445	CABCM00BTM	20	1.500E-03	6.929E-10	2.409E-07	2.416E-07	1.039E-12	1.000E+00	4.314E-06	0.00
446	RNAEP01ASA	19	1.710E-04	5.848E-09	2.409E-07	2.468E-07	1.000E-12	1.000E+00	4.151E-06	0.00
447	PL90302BSA	12	1.160E-03	8.479E-10	2.409E-07	2.418E-07	9.836E-13	1.000E+00	4.083E-06	0.00
448	RNAEP01BSA	17	1.710E-04	5.699E-09	2.409E-07	2.466E-07	9.745E-13	1.000E+00	4.045E-06	0.00
449	PL3MOD51	24	8.740E-04	1.046E-09	2.409E-07	2.420E-07	9.138E-13	1.000E+00	3.793E-06	0.00
450	SWBMOD11P	6	1.410E-02	6.383E-11	2.409E-07	2.410E-07	9.000E-13	1.000E+00	3.736E-06	0.00
451	PMD0302ASA	28	1 160E-03	6.935E-10	2.409E-07	2.416E-07	8.045E-13	1.000E+00	3.339E-06	0.00
452	PMA0302ASA	28	1.160E-03	6.935E-10	2.409E-07	2.416E-07	8.045E-13	1.000E+00	3.339E-06	0.00
453	PL3MOD12	4	2.090E-03	3.895E-10	2.409E-07	2.413E-07	8.140E-13	1.000E+00	3.379E-06	0.00
454	IDABSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	7.828E-13	1.000E+00	3.249E-06	0.00
455	ED1BSDS1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	7.828E-13	1.000E+00	3.249E-06	0.00
456	IDBBSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	7.828E-13	1.000E+00	3.249E-06	0.00
457	PMDMOD41	29	6.350E-04	1.183E-09	2.409E-07	2.421E-07	7.510E-13	1.000E+00	3.117E-06	0.00

Table 50-24 (Sheet 12 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

458	AD1MOD06	11	5.640E-02	1.251E-11	2.409E-07	2.409E-07	7.057E-13	1.000E+00	2.929E-06	0.00
459	PLBMOD11	20	2.090E-03	3.319E-10	2.409E-07	2.413E-07	6.936E-13	1.000E+00	2.879E-06	0.00
460	MSX-AV4-FA	3	2.000E-04	3.430E-09	2.409E-07	2.443E-07	6.860E-13	1.000E+00	2.847E-06	0.00
461	CV3EPCPASA	4	1.710E-04	3.901E-09	2.409E-07	2.448E-07	6.670E-13	1.000E+00	2.769E-06	0.00
462	AD4MOD07A	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	6.714E-13	1.000E+00	2.787E-06	0.00
463	AD4MOD08B	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	6.714E-13	1.000E+00	2.787E-06	0.00
464	AD4MOD10B	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	6.714E-13	1.000E+00	2.787E-06	0.00
465	AD4MOD09A	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	6.714E-13	1.000E+00	2.787E-06	0.00
466	CCX-PL4EH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	6.480E-13	1.000E+00	2.690E-06	0.00
467	PMBMOD12	17	2.090E-03	3.157E-10	2.409E-07	2.412E-07	6.599E-13	1.000E+00	2.739E-06	0.00
468	CCX-PMAEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	6.480E-13	1.000E+00	2.690E-06	0.00
469	CCX-PMDEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	6.480E-13	1.000E+00	2.690E-06	0.00
470	ZOX-PD-ER	6	1.300E-04	4.850E-09	2.409E-07	2.458E-07	6.305E-13	1.000E+00	2.617E-06	0.00
471	PL2MOD51	16	8.740E-04	6.970E-10	2.409E-07	2.416E-07	6.092E-13	1.000E+00	2.529E-06	0.00
472	PMA0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5.895E-13	1.000E+00	2.447E-06	0.00
473	PMD0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5.895E-13	1.000E+00	2.447E-06	0.00
474	VW2EPTRBSA	4	1.710E-04	3.556E-09	2.409E-07	2.445E-07	6.080E-13	1.000E+00	2.524E-06	0.00
475	ATW-MAN01	6	3.300E-02	1.802E-11	2.409E-07	2.409E-07	5.947E-13	1.000E+00	2.468E-06	0.00
476	MSAEPSD5SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
477	MSAEPSD6SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
478	PL70302ASA	2	1.160E-03	5.026E-10	2.409E-07	2.414E-07	5.830E-13	1.000E+00	2.420E-06	0.00
479	PL70302BSA	2	1.160E-03	5.026E-10	2.409E-07	2.414E-07	5.830E-13	1.000E+00	2.420E-06	0.00
480	MSAEPSD4SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
481	PL40302ASA	21	1.160E-03	4.944E-10	2.409E-07	2.414E-07	5.735E-13	1.000E+00	2.380E-06	0.00
482	MSAEPSD7SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
483	MSAEPSD2SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
484	MSAEPSD8SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
485	MSAEPSD3SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
486	MSAEPSD1SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	5.860E-13	1.000E+00	2.432E-06	0.00
487	CA9EPCMPASA	10	1.710E-04	3.138E-09	2.409E-07	2.441E-07	5.366E-13	1.000E+00	2.227E-06	0.00
488	PMCMOD12	14	2.090E-03	2.598E-10	2.409E-07	2.412E-07	5.430E-13	1.000E+00	2.254E-06	0.00
489	ZO2MOD04	7	1.250E-03	4.053E-10	2.409E-07	2.413E-07	5.066E-13	1.000E+00	2.103E-06	0.00
490	PL2MOD52	3	8.740E-04	5.684E-10	2.409E-07	2.415E-07	4.968E-13	1.000E+00	2.062E-06	0.00
491	CCX-PL2MOD1	4	1.410E-04	3.546E-09	2.409E-07	2.445E-07	5.000E-13	1.000E+00	2.075E-06	0.00
492	IWX-EV2-SA	7	5.800E-06	7.947E-08	2.409E-07	3.204E-07	4.609E-13	1.000E+00	1.913E-06	0.00
493	ED2MOD01	12	5.040E-04	8.750E-10	2.409E-07	2.418E-07	4.410E-13	1.000E+00	1.830E-06	0.00
494	CCX-PL3EH0	2	4.030E-06	1.040E-07	2.409E-07	3.449E-07	4.190E-13	1.000E+00	1.739E-06	0.00
495	CCX-EAO	10	3.230E-06	1.361E-07	2.409E-07	3.770E-07	4.396E-13	1.000E+00	1.825E-06	0.00
496	PL40302BSA	13	1.160E-03	3.369E-10	2.409E-07	2.413E-07	3.908E-13	1.000E+00	1.622E-06	0.00
497	PRDEP108SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	3.850E-13	1.000E+00	1.598E-06	0.00
498	PRCEP101SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	3.850E-13	1.000E+00	1.598E-06	0.00
499	PRCEP108SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	3.850E-13	1.000E+00	1.598E-06	0.00

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RISK IMPORTANCES SORTED BY RISK DECREASE

500	PLB0301ASA	16	1.160E-03	2.928E-10	2.409E-07	2.412E-07	3.396E-13	1.000E+00	1.410E-06	0.00
501	ZANTR-2AHF	14	2.880E-05	1.233E-08	2.409E-07	2.532E-07	3.550E-13	1.000E+00	1.474E-06	0.00
502	IWBCV124AO	9	1.750E-03	2.011E-10	2.409E-07	2.411E-07	3.519E-13	1.000E+00	1.461E-06	0.00
503	SFNMV067GC	14	1.100E-02	3.182E-11	2.409E-07	2.410E-07	3.500E-13	1.000E+00	1.453E-06	0.00
504	CCX-PLAMOD1	6	1.410E-04	2.527E-09	2.409E-07	2.434E-07	3.563E-13	1.000E+00	1.479E-06	0.00
505	CV3EPCPBSA	2	1.710E-04	1.778E-09	2.409E-07	2.427E-07	3.040E-13	1.000E+00	1.262E-06	0.00
506	PLB0301BSA	14	1.160E-03	2.686E-10	2.409E-07	2.412E-07	3.116E-13	1.000E+00	1.293E-06	0.00
507	CCX-PLBMOD1-SW	6	1.100E-05	3.004E-08	2.409E-07	2.710E-07	3.304E-13	1.000E+00	1.371E-06	0.00
508	EC2BS002LF	6	4.800E-06	6.304E-08	2.409E-07	3.040E-07	3.026E-13	1.000E+00	1.256E-06	0.00
509	PMBXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	2.967E-13	1.000E+00	1.232E-06	0.00
510	ED3MOD11	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	2.744E-13	1.000E+00	1.139E-06	0.00
511	PMAXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	2.967E-13	1.000E+00	1.232E-06	0.00
512	ED3MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	2.744E-13	1.000E+00	1.139E-06	0.00
513	PL30302ASA	2	1.160E-03	2.414E-10	2.409E-07	2.412E-07	2.800E-13	1.000E+00	1.162E-06	0.00
514	PMDXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	2.967E-13	1.000E+00	1.232E-06	0.00
515	PLAMOD12	4	2.090E-03	1.336E-10	2.409E-07	2.411E-07	2.792E-13	1.000E+00	1.159E-06	0.00
516	PMCXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	2.967E-13	1.000E+00	1.232E-06	0.00
517	ED4MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	2.744E-13	1.000E+00	1.139E-06	0.00
518	PMAMOD41	11	6.350E-04	4.176E-10	2.409E-07	2.413E-07	2.652E-13	1.000E+00	1.101E-06	0.00
519	CCX-PLDMOD1	1	1.410E-04	1.851E-09	2.409E-07	2.428E-07	2.610E-13	1.000E+00	1.083E-06	0.00
520	IRWMOD08	7	1.460E-03	1.877E-10	2.409E-07	2.411E-07	2.741E-13	1.000E+00	1.138E-06	0.00
521	CCX-BY-PN1	5	5.700E-05	4.589E-09	2.409E-07	2.455E-07	2.616E-13	1.000E+00	1.086E-06	0.00
522	ED4MOD03	2	2.700E-03	9.111E-11	2.409E-07	2.410E-07	2.460E-13	1.000E+00	1.021E-06	0.00
523	CASPPRUPT	6	2.000E-06	1.198E-07	2.409E-07	3.607E-07	2.396E-13	1.000E+00	9.945E-07	0.00
524	PMC0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.414E-13	1.000E+00	1.002E-06	0.00
525	PMB0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.414E-13	1.000E+00	1.002E-06	0.00
526	EC2MOD23	8	4.800E-05	4.613E-09	2.409E-07	2.455E-07	2.214E-13	1.000E+00	9.190E-07	0.00
527	EC1MOD13	8	4.800E-05	4.613E-09	2.409E-07	2.455E-07	2.214E-13	1.000E+00	9.190E-07	0.00
528	PLBMOD12	8	2.090E-03	1.065E-10	2.409E-07	2.410E-07	2.226E-13	1.000E+00	9.240E-07	0.00
529	CCX-PLA03	4	9.690E-05	2.341E-09	2.409E-07	2.433E-07	2.268E-13	1.000E+00	9.414E-07	0.00
530	CVNMV091GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.189E-13	1.000E+00	9.086E-07	0.00
531	CVNMV090GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.189E-13	1.000E+00	9.086E-07	0.00
532	FWACV012GO	8	2.190E-04	8.658E-10	2.409E-07	2.418E-07	1.896E-13	1.000E+00	7.870E-07	0.00
533	PMC0302BSA	6	1.160E-03	1.803E-10	2.409E-07	2.411E-07	2.091E-13	1.000E+00	8.679E-07	0.00
534	PMB0302BSA	6	1.160E-03	1.803E-10	2.409E-07	2.411E-07	2.091E-13	1.000E+00	8.679E-07	0.00
535	CCX-IV-XR1	6	2.400E-05	8.821E-09	2 409E-07	2.497E-07	2.117E-13	1.000E+00	8.787E-07	0.00
536	SGX-MV-RP	4	7.670E-06	2.780E-08	2.409E-07	2.687E-07	2.132E-13	1.000E+00	8.849E-07	0.00
537	FWBCV012GO	8	2.190E-04	8.658E-10	2.409E-07	2.418E-07	1.896E-13	1.000E+00	7.870E-07	0.00
538	PL30302BSA	1	1.160E-03	1.552E-10	2.409E-07	2.411E-07	1.800E-13	1.000E+00	7.471E-07	0.00
539	CCX-PLD03	1	9.690E-05	1.847E-09	2.409E-07	2.428E-07	1.790E-13	1.000E+00	7.430E-07	0.00
540	SGX-CV-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	1.780E-13	1.000E+00	7.388E-07	0.00
541	FWX-PM2-ER	4	5.900E-06	2.783E-08	2.409E-07	2.688E-07	1.642E-13	1.000E+00	6.816E-07	0.00

Table 50-24 (Sheet 14 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

542	FWX-CV2-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	1.780E-13	1.000E+00	7.388E-07	0.00
543	SGX-AV-FA	4	6.300E-06	2.778E-08	2.409E-07	2.687E-07	1.750E-13	1.000E+00	7.264E-07	0.00
544	SFBEPSFPBSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	1.310E-13	1.000E+00	5.437E-07	0.00
545	SFBEP013ASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	1.310E-13	1.000E+00	5.437E-07	0.00
546	CCX-HE-AF	4	1.200E-06	1.080E-07	2.409E-07	3.489E-07	1.296E-13	1.000E+00	5.379E-07	0.00
547	SFBEPSFPASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	1.310E-13	1.000E+00	5.437E-07	0.00
548	CCX-PLBEH0	4	4.030E-06	2.779E-08	2.409E-07	2.687E-07	1.120E-13	1.000E+00	4.649E-07	0.00
549	EC1MOD11	4	4.800E-05	2.496E-09	2.409E-07	2.434E-07	1.198E-13	1.000E+00	4.973E-07	0.00
550	EC3BS003TM	1	2.700E-03	4.667E-11	2.409E-07	2.410E-07	1.260E-13	1.000E+00	5.230E-07	0.00
551	ZOX-BL-ES	1	6.000E-05	1.867E-09	2.409E-07	2.428E-07	1.120E-13	1.000E+00	4.649E-07	0.00
552	SFBEP013BSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	1.310E-13	1.000E+00	5.437E-07	0.00
553	TCBMOD01B	1	2.520E-02	5.000E-12	2.409E-07	2.409E-07	1.260E-13	1.000E+00	5.230E-07	0.00
554	ED1MOD06	8	3.480E-04	3.063E-10	2.409E-07	2.412E-07	1.066E-13	1.000E+00	4.425E-07	0.00
555	CMBAV015LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	9.920E-14	1.000E+00	4.118E-07	0.00
556	PLA0302ASA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	8.720E-14	1.000E+00	3.619E-07	0.00
557	PLA0302BSA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	8.720E-14	1.000E+00	3.619E-07	0.00
558	PLB0302ASA	4	1.160E-03	6.776E-11	2.409E-07	2.410E-07	7.860E-14	1.000E+00	3.262E-07	0.00
559	CMBAV014LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	9.920E-14	1.000E+00	4.118E-07	0.00
560	IWBCV122AO	3	1.750E-03	5.297E-11	2.409E-07	2.410E-07	9.270E-14	1.000E+00	3.848E-07	0.00
561	IRWMOD07	3	1.460E-03	5.295E-11	2.409E-07	2.410E-07	7.730E-14	1.000E+00	3.209E-07	0.00
562	IDDMOD38	6	3.170E-04	2.845E-10	2.409E-07	2.412E-07	9.020E-14	1.000E+00	3.744E-07	0.00
563	IDAMOD08	6	3.170E-04	2.845E-10	2.409E-07	2.412E-07	9.020E-14	1.000E+00	3.744E-07	0.00
564	CMB-CV	1	2.000E-06	3.925E-08	2.409E-07	2.802E-07	7.850E-14	1.000E+00	3.258E-07	0.00
565	CMBTK002AF	1	2.400E-06	3.925E-08	2.409E-07	2.802E-07	9.420E-14	1.000E+00	3.910E-07	0.00
566	CCAMOD02	1	7.100E-03	1.352E-11	2.409E-07	2.409E-07	9.600E-14	1.000E+00	3.985E-07	0.00
567	ED3MOD06	1	3.480E-04	2.819E-10	2.409E-07	2.412E-07	9.810E-14	1.000E+00	4.072E-07	0.00
568	IDBMOD27	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	8.700E-14	1.000E+00	3.611E-07	0.00
569	IDCMOD31	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	8.700E-14	1.000E+00	3.611E-07	0.00
570	IDDMOD35	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	8.700E-14	1.000E+00	3.611E-07	0.00
571	IDAMOD07	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	8.700E-14	1.000E+00	3.611E-07	0.00
572	AD1MOD05	6	5.640E-02	1.555E-12	2.409E-07	2.409E-07	8.770E-14	1.000E+00	3.640E-07	0.00
573	CDNTK02AF	2	2.400E-06	2.083E-08	2.409E-07	2.618E-07	5.000E-14	1.000E+00	2.075E-07	0.00
574	CVX-MV-GC2	4	4.400E-03	1.684E-11	2.409E-07	2.409E-07	7.410E-14	1.000E+00	3.076E-07	0.00
575	FWA-CV-EO	4	1.000E-04	5.930E-10	2.409E-07	2.415E-07	5.930E-14	1.000E+00	2.461E-07	0.00
576	PLB0302BSA	2	1.160E-03	4.362E-11	2.409E-07	2.410E-07	5.060E-14	1.000E+00	2.100E-07	0.00
577	PMAMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	2.230E-14	1.000E+00	9.256E-08	0.00
578	PLMMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	2.230E-14	1.000E+00	9.256E-08	0.00
579	CMBOR001EB	1	7.200E-07	3.931E-08	2.409E-07	2.802E-07	2.830E-14	1.000E+00	1.175E-07	0.00
580	IWCRS125BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	3.650E-14	1.000E+00	1.515E-07	0.00
581	IDCMOD37	2	3.170E-04	1.013E-10	2.409E-07	2.410E-07	3.210E-14	1.000E+00	1.332E-07	0.00
582	CVN-MAN02	2	1.580E-03	1.570E-11	2.409E-07	2.409E-07	2.480E-14	1.000E+00	1.029E-07	0.00
583	CVBEP081SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	4.210E-14	1.000E+00	1.747E-07	0.00

Table 50-24 (Sheet 15 of 15)

RISK IMPORTANCES SORTED BY RISK DECREASE

584	SGAAV040LA	2	1.090E-03	3.706E-11	2.409E-07	2.410E-07	4.040E-14	1.000E+00	1.677E-07	0.00
585	ED1MOD02	2	1.920E-04	1.490E-10	2.409E-07	2.411E-07	2.860E-14	1.000E+00	1.187E-07	0.00
586	ED2MOD07	2	3.050E-04	7.213E-11	2.409E-07	2.410E-07	2.200E-14	1.000E+00	9.132E-08	0.00
587	ED2MOD13	2	3.170E-04	7.192E-11	2.409E-07	2.410E-07	2.280E-14	1.000E+00	9.464E-08	0.00
588	ED2MOD06	2	3.480E-04	7.184E-11	2.409E-07	2.410E-07	2.500E-14	1.000E+00	1.038E-07	0.00
589	PMDMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	2.230E-14	1.000E+00	9.256E-08	0.00
590	ZO1MOD03	2	1.000E-04	2.810E-10	2.409E-07	2.412E-07	2.810E-14	1.000E+00	1.166E-07	0.00
591	CVAEP084SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	4.210E-14	1.000E+00	1.747E-07	0.00
592	IWARS123BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	3.650E-14	1.000E+00	1.515E-07	0.00
593	EC1CB100RQ	2	1.440E-05	2.535E-09	2.409E-07	2.435E-07	3.650E-14	1.000E+00	1.515E-07	0.00
594	IDBMOD36	2	3.170E-04	1.013E-10	2.409E-07	2.410E-07	3.210E-14	1.000E+00	1.332E-07	0.00
595	SGBAV057LA	1	1.090E-03	1.000E-11	2.409E-07	2.409E-07	1.090E-14	1.000E+00	4.524E-08	0.00
596	SGBAV250LA	1	8.760E-03	1.244E-12	2.409E-07	2.409E-07	1.090E-14	1.000E+00	4.524E-08	0.00
597	SGBCV058GC	1	2.450E-02	4.449E-13	2.409E-07	2.409E-07	1.090E-14	1.000E+00	4.524E-08	0.00
598	EC1MOD01	1	6.910E-05	1.505E-10	2.409E-07	2.411E-07	1.040E-14	1.000E+00	4.317E-08	0.00
599	ATW-MAN06	1	5.200E-03	2.173E-12	2.409E-07	2.409E-07	1.130E-14	1.000E+00	4.690E-08	0.00

Table 50-25 (Sheet 1 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

SORTED BY BIRNBAUM (SLOPE) IMPORTANCE

	BASIC EVENT ID	CUTSETS	BEV PROB. Q	BIRN A	CMF0 B	CMF1	RINC	RDEC	RAW	RRW	FV
1	IEV-RV-RP	1	1.000E-08	1.000E+00	2.309E-07	1.000E+00	1.000E+00	1.000E-08	4.151E+06	1.043E+00	4.151E-02
2	IEV-ISLOC	1	5.000E-11	1.000E+00	2.409E-07	1.000E+00	1.000E+00	5.000E-11	4.151E+06	1.000E+00	2.075E-04
3	IEV-LLOCA	286	5.000E-06	8.958E-03	1.960E-07	8.958E-03	8.958E-03	4.496E-08	3.718E+04	1.229E+00	1.866E-01
4	CCX-SFTW	262	1.200E-06	1.904E-03	2 386E-07	1.905E-03	1.904E-03	2.287E-09	7.906E+03	1.010E+00	9.494E-03
5	REX-FL-GP	849	1.200E-05	1.474E-03	2.232E-07	1.474E-03	1.474E-03	1.770E-08	6.119E+03	1.079E+00	7.346E-02
6	IEV-SPADS	1078	5.400E-05	5.476E-04	2.113E-07	5.478E-04	5.475E-04	2.958E-08	2.274E+03	1.140E+00	1.228E-01
7	IEV-SI-LB	1160	2.120E-04	4.480E-04	1.459E-07	4.482E-04	4.479E-04	9.499E-08	1.860E+03	1.651E+00	3.943E-01
8	IWX-EV-SA	1686	2.600E-05	3.993E-04	2.305E-07	3.996E-04	3.993E-04	1.038E-08	1.658E+03	1.045E+00	4.310E-02
9	ADX-EV-SA	1678	3.000E-05	3.949E-04	2.291E-07	3.952E-04	3.949E-04	1.185E-08	1.640E+03	1.052E+00	4.918E-02
10	IWX-CV-AO	1617	3.000E-05	3.929E-04	2.291E-07	3.931E-04	3.929E-04	1.179E-08	1.632E+03	1.051E+00	4.893E-02
11	ADX-EV-SA2	1607	5.900E-05	3.898E-04	2.179E-07	3 900E-04	3.898E-04	2.300E-08	1.619E+03	1.106E+00	9.547E-02
12	IWA-PLUG	68	2.400E-04	2.121E-04	1 900E-07	2.123E-04	2.121E-04	5.091E-08	8.813E+02	1.268E+00	2.113E-01
13	IWX-EV1-SA	1	5.800E-06	2.121E-04	2.397E-07	2.123E-04	2.121E-04	1.230E-09	8.812E+02	1.005E+00	5.105E-03
14	IWX-CV1-AO	1	5.400E-07	2.111E-04	2.408E-07	2.114E-04	2.111E-04	1.140E-10	8.773E+02	1.000E+00	4.732E-04
15	CCX-PMXMOD1-SW	347	1.100E-05	1.926E-04	2.388E-07	1.929E-04	1.926E-04	2.119E-09	8.005E+02	1.009E+00	8.795E-03
16	CCX-EP-SAM	298	8.620E-06	1.921E-04	2.393E-07	1.923E-04	1.921E-04	1.656E-09	7.983E+02	1.007E+00	6 873E-03
17	IWX-FL-GP	993	1.200E-05	1.797E-04	2.388E-07	1.799E-04	1.797E-04	2.156E-09	7.468E+02	1.009E+00	8.951E-03
18	CCX-AV-LA	133	6.200E-05	6.786E-05	2.367E-07	6.810E-05	6.786E-05	4.207E-09	2.827E+02	1 018E+00	1.746E-02
19	CCX-INPUT-LOGIC	43	1.030E-04	6.635E-05	2.341E-07	6.659E-05	6.635E-05	6.834E-09	2.764E+02	1.029E+00	2.837E-02
20	CMX-VS-FA	75	3.840E-05	6.542E-05	2.384E-07	6.566E-05	6.542E-05	2.512E-09	2.725E+02	1.011E+00	1.043E-02
21	CMX-CV-GO	93	5.100E-05	6.542E-05	2.376E-07	6.565E-05	6.541E-05	3.336E-09	2.725E+02	1.014E+00	1.385E-02
22	CCX-IN-LOGIC-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.269E-05	6.896E-10	2.612E+02	1.003E+00	2.862E-03
23	CCX-PMXMOD2-SW	22	1.100E-05	6.269E-05	2.402E-07	6.293E-05	6.269E-05	6.896E-10	2.612E+02	1.003E+00	2.862E-03
24	CMX-TK-AF	5	1.200E-07	6.115E-05	2.409E-07	6.140E-05	6.115E-05	7.339E-12	2.548E+02	1.000E+00	3.046E-05
25	ACX-CV-GO	179	5.100E-05	5.958E-05	2.379E-07	5.982E-05	5.957E-05	3.038E-09	2.483E+02	1.013E+00	1.261E-02
26	ACX-TK-AF	3	1.200E-07	5.918E-05	2.409E-07	5.942E-05	5.918E-05	7.102E-12	2.467E+02	1.000E+00	2 948E-05
27	IEV-CMTLB	987	9.310E-05	3.954E-05	2.372E-07	3.978E-05	3.954E-05	3.682E-09	1.651E+02	1 016E+00	1 528E-02
28	CCX-BY-PN	968	4.700E-05	3.777E-05	2.391E-07	3.801E-05	3.777E-05	1.775E-09	1.578E+02	1.007E+00	7.368E-03
29	IEV-MLOCA	1681	4.360E-04	3.696E-05	2 248E-07	3.718E-05	3.694E-05	1.611E-08	1.543E+02	1.072E+00	6.688E-02
30	IEV-SLOCA	1638	5.000E-04	3.616E-05	2.228E-07	3.638E-05	3.614E-05	1.808E-08	1.510E+02	1.081E+00	7.504E-02
31	PXX-AV-LA1	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.860E-05	1.785E-09	7.818E+01	1.007E+00	7.410E-03
32	PXX-AV-LA	1975	9.600E-05	1.860E-05	2.391E-07	1.884E-05	1.860E-05	1.785E-09	7.818E+01	1.007E+00	7.410E-03
33	PCNHR001ML	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	1.677E-05	4.024E-11	7.060E+01	1.000E+00	1 670E-04
34	IWNTK001AF	194	2.400E-06	1.677E-05	2.409E-07	1.701E-05	1 677E-05	4.024E-11	7.060E+01	1.000E+00	1.670E-04
35	IWX-XMTR	560	4.780E-04	1.495E-05	2.338E-07	1.518E-05	1.494E-05	7.146E-09	6.302E+01	1.031E+00	2.966E-02
36	RPX-CB-GO	426	4.200E-04	1.223E-05	2.358E-07	1.246E-05	1.222E-05	5.135E-09	5.172E+01	1.022E+00	2.131E-02
37	ADX-MV3-GO	2324	3.240E-04	1.033E-05	2.376E-07	1.056E-05	1.032E-05	3.346E-09	4.385E+01	1.014E+00	1.389E-02
38	CCX-XMTR	579	4.780E-04	8.755E-06	2.367E-07	8.992E-06	8.751E-06	4.185E-09	3.732E+01	1.018E+00	1.737E-02
39	CCX-XMTR195	280	4.780E-04	8.449E-06	2.369E-07	8.686E-06	8.445E-06	4.039E-09	3.605E+01	1.017E+00	1.676E-02
40	ALL-IND-FAIL	63	1.000E-06	7.487E-06	2.409E-07	7.728E-06	7.487E-06	7.487E-12	3.208E+01	1.000E+00	3.108E-05
41	ACAOR001SP	95	7.270E-04	5.542E-06	2.369E-07	5.779E-06	5.538E-06	4.029E-09	2.399E+01	1.017E+00	1.672E-02
42	ACACV028GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	5.526E-06	9.688E-09	2.394E+01	1.042E+00	4.021E-02
43	ACACV029GO	141	1.750E-03	5.536E-06	2.312E-07	5.767E-06	5.526E-06	9.688E-09	2.394E+01	1.042E+00	4.021E-02

Table 50-25 (Sheet 2 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

44	ACATK001AF	8	2.400E-06	5.505E-06	2.409E-07	5.746E-06	5.505E-06	1.321E-11	2.385E+01	1.000E+00	5.484E-05
45	ACAOR001EB	7	7.200E-07	5.492E-06	2.409E-07	5.733E-06	5.492E-06	3.954E-12	2.380E+01	1.000E+00	1.641E-05
46	ACBOR001SP	35	7.270E-04	5.237E-06	2.371E-07	5.474E-06	5.233E-06	3.807E-09	2.272E+01	1.016E+00	1.580E-02
47	ACBCV029GO	73	1.750E-03	5.230E-06	2.318E-07	5.462E-06	5.221E-06	9.153E-09	2 267E+01	1.039E+00	3.799E-02
48	ACBCV028GO	73	1 750E-03	5.230E-06	2.318E-07	5.462E-06	5.221E-06	9.153E-09	2.267E+01	1.039E+00	3.799E-02
49	ACBTK001AF	4	2.400E-06	5 228E-06	2.409E-07	5.469E-06	5 228E-06	1.255E-11	2.270E+01	1.000E+00	5.208E-05
50	ACBOR001EB	4	7.200E-07	5.228E-06	2.409E-07	5.469E-06	5.228E-06	3.764E-12	2.270E+01	1.000E+00	1.562E-05
51	RCX-RB-FA	95	8.100E-06	4.578E-06	2.409E-07	4.819E-06	4.578E-06	3.708E-11	2.000E+01	1.000E+00	1.539E-04
52	ED3MOD07	387	3.050E-04	3.840E-06	2.397E-07	4.080E-06	3.839E-06	1.171E-09	1.693E+01	1.005E+00	4.861E-03
53	IEV-PRSTR	317	1.340E-04	3.743E-06	2.404E-07	3.983E-06	3.742E-06	5.015E-10	1.653E+01	1.002E+00	2.082E-03
54	CCX-PMXMOD4-SW	54	1.100E-05	3.462E-06	2.409E-07	3.703E-06	3.462E-06	3.808E-11	1.537E+01	1.000E+00	1.581E-04
55	IDBBSDS1TM	606	3 000E-04	2.566E-06	2.402E-07	2.806E-06	2.565E-06	7 697E-10	1.165E+01	1.003E+00	3.195E-03
56	IDBBSDD1TM	581	3.000E-04	2.561E-06	2.402E-07	2.801E-06	2.560E-06	7.683E-10	1.163E+01	1.003E+00	3.189E-03
57	CMA-PLUG	65	7.270E-04	2.319E-06	2.392E-07	2.559E-06	2.318E-06	1 686E-09	1.062E+01	1.007E+00	6.999E-03
58	CMATK002AF	17	2.400E-06	2.297E-06	2.409E-07	2.538E-06	2.297E-06	5.513E-12	1.053E+01	1.000E+00	2.288E-05
59	CMA-CV	16	2 000E-06	2.293E-06	2.409E-07	2.534E-06	2.293E-06	4.585E-12	1.052E+01	1.000E+00	1.903E-05
60	CMAOR001EB	14	7.200E-07	2.280E-06	2.409E-07	2.521E-06	2.280E-06	1.642E-12	1.046E+01	1.000E+00	6.815E-06
61	CMX-AV-LA	36	9.600E-05	2.273E-06	2.407E-07	2 514E-06	2.273E-06	2.182E-10	1.043E+01	1.001E+00	9.058E-04
62	IDBFD013RQ	83	1.200E-05	2.140E-06	2.409E-07	2.381E-06	2.140E-06	2.568E-11	9.882E+00	1.000E+00	1.066E-04
63	IDBBSDS1LF	46	4.800E-06	2.063E-06	2.409E-07	2.304E-06	2.063E-06	9.902E-12	9.563E+00	1.000E+00	4.110E-05
64	IDBBSDD1LF	46	4.800E-06	2.063E-06	2.409E-07	2.304E-06	2.063E-06	9.902E-12	9 563E+00	1.000E+00	4.110E-05
65	IDDBSDS1TM	253	3 000E-04	2.058E-06	2.403E-07	2.299E-06	2.058E-06	6.175E-10	9.542E+00	1.003E+00	2.563E-03
66	IDDBSDD1TM	207	3.000E-04	2.053E-06	2.403E-07	2.293E-06	2.052E-06	6.159E-10	9.519E+00	1.003E+00	2.557E-03
67	IDDFD019RQ	52	1.200E-05	1.955E-06	2.409E-07	2.196E-06	1.955E-06	2 346E-11	9.116E+00	1.000E+00	9.739E-05
68	IDDBSDS1LF	31	4.800E-06	1.900E-06	2.409E-07	2.141E-06	1.900E-06	9.119E-12	8.886E+00	1.000E+00	3.785E-05
69	IDDBSDD1LF	31	4.800E-06	1.900E-06	2.409E-07	2.141E-06	1.900E-06	9.119E-12	8.886E+00	1.000E+00	3.785E-05
70	IEV-SGTR	3076	3.880E-03	1.751E-06	2.341E-07	1.985E-06	1.744E-06	6.792E-09	8.238E+00	1.029E+00	2.819E-02
71	CCX-IV-XR	160	2.400E-05	1.666E-06	2.409E-07	1.907E-06	1.666E-06	3.999E-11	7 915E+00	1.000E+00	1.660E-04
72	CCX-EP-SA	46	8.620E-06	1.410E-06	2.409E-07	1.651E-06	1.410E-06	1 215E-11	6.853E+00	1.000E+00	5.045E-05
73	CIB-MAN00	320	1.840E-03	1.288E-06	2.386E-07	1.527E-06	1.286E-06	2.370E-09	6.337E+00	1.010E+00	9.838E-03
74	IDABSDS1TM	264	3.000E-04	1.197E-06	2.406E-07	1.437E-06	1.196E-06	3.590E-10	5.965E+00	1.001E+00	1.490E-03
75	IDABSDD1TM	239	3.000E-04	1.192E-06	2.406E-07	1.433E-06	1 192E-06	3.577E-10	5.947E+00	1.001E+00	1.485E-03
76	CCX-PMS-HARDWARE	52	7.890E-05	1.179E-06	2.408E-07	1.420E-06	1.179E-06	9.302E-11	5.893E+00	1.000E+00	3.861E-04
77	IDCBSDS1TM	333	3.000E-04	1.094E-06	2.406E-07	1.334E-06	1.093E-06	3.281E-10	5.538E+00	1.001E+00	1.362E-03
78	IDCBSDD1TM	308	3.000E-04	1.089E-06	2.406E-07	1.330E-06	1.089E-06	3.268E-10	5.520E+00	1.001E+00	1.356E-03
79	IDAFD003RQ	45	1.200E-05	1.080E-06	2.409E-07	1.321E-06	1.080E-06	1.296E-11	5.484E+00	1.000E+00	5.381E-05
80	IDABSDD1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	1.052E-06	5.049E-12	5 366E+00	1.000E+00	2.096E-05
81	IDABSDS1LF	31	4.800E-06	1.052E-06	2.409E-07	1.293E-06	1.052E-06	5.049E-12	5.366E+00	1.000E+00	2.096E-05
82	IRWMOD06	21	1.460E-03	1.000E-06	2.395E-07	1.240E-06	9.989E-07	1 460E-09	5.146E+00	1.006E+00	6.062E-03
83	IRWMOD05	17	1.460E-03	1.000E-06	2.395E-07	1.240E-06	9.987E-07	1.460E-09	5.146E+00	1.006E+00	6.061E-03
84	IWBRS123AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	9.992E-07	8.761E-10	5.148E+00	1.004E+00	3.636E-03
85	IWDRS125AFA	16	8.760E-04	1.000E-06	2.400E-07	1.240E-06	9.992E-07	8.761E-10	5.148E+00	1 004E+00	3.636E-03
86	IWACV124AO	26	1.750E-03	9.998E-07	2.392E-07	1.239E-06	9.981E-07	1.750E-09	5.143E+00	1.007E+00	7.263E-03
87	IWACV122AO	20	1.750E-03	9.997E-07	2.392E-07	1.239E-06	9.979E-07	1 749E-09	5.142E+00	1.007E+00	7.262E-03
88	CCX-TT-UF	139	1.170E-04	9.364E-07	2.408E-07	1.177E-06	9.363E-07	1.096E-10	4.886E+00	1.000E+00	4.547E-04
89	IDCFD007RQ	35	1.200E-05	9.257E-07	2.409E-07	1.167E-06	9.257E-07	1.111E-11	4.842E+00	1.000E+00	4.611E-05
90	IDCBSDS1LF	16	4 800E-06	8.887E-07	2.409E-07	1.130E-06	8.887E-07	4 266E-12	4 689E+00	1.000E+00	1.771E-05
91	IDCBSDD1LF	16	4.800E-06	8.887E-07	2.409E-07	1.130E-06	8.887E-07	4.266E-12	4.689E+00	1 000E+00	1.771E-05

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RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

92	CCX-TRNSM	556	4.780E-04	8.126E-07	2.405E-07	1.053E-06	8.122E-07	3.884E-10	4.371E+00	1.002E+00	1.612E-03
93	ADN-MAN01	680	3.020E-03	7.843E-07	2.386E-07	1.023E-06	7.820E-07	2.369E-09	4.246E+00	1 010E+00	9 832E-03
94	EC1BS001TM	1288	2.700E-03	7.530E-07	2.389E-07	9.918E-07	7.509E-07	2.033E-09	4.117E+00	1.009E+00	8.438E-03
95	REN-MAN04	495	1.000E-02	7.033E-07	2.339E-07	9.372E-07	6.962E-07	7.033E-09	3.890E+00	1.030E+00	2.919E-02
96	EC1BS012TM	1041	2.700E-03	6.818E-07	2.391E-07	9.209E-07	6.800E-07	1.841E-09	3.822E+00	1.008E+00	7.641E-03
97	CCX-VS-FA	17	3.840E-05	6.787E-07	2.409E-07	9.196E-07	6.787E-07	2.606E-11	3.817E+00	1.000E+00	1.082E-04
98	AD4MOD08	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.834E-10	3.742E+00	1 002E+00	1 591E-03
99	AD4MOD07	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.834E-10	3.742E+00	1.002E+00	1.591E-03
100	AD4MOD09	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.834E-10	3.742E+00	1.002E+00	1.591E-03
101	AD4MOD10	510	5.800E-04	6.610E-07	2.405E-07	9.015E-07	6.606E-07	3.834E-10	3.742E+00	1.002E+00	1.591E-03
102	EC1MOD12	142	4.800E-05	5.589E-07	2.409E-07	7.998E-07	5.589E-07	2.683E-11	3.320E+00	1.000E+00	1.114E-04
103	CIB-MAN01	280	1.340E-03	5.540E-07	2.402E-07	7.941E-07	5.532E-07	7.423E-10	3.296E+00	1.003E+00	3.081E-03
104	IEV-SLB-V	305	1.210E-03	5.010E-07	2.403E-07	7.414E-07	5.004E-07	6.063E-10	3.077E+00	1.003E+00	2.516E-03
105	LPM-MAN02	282	3.300E-03	4.557E-07	2.394E-07	6.951E-07	4.542E-07	1.504E-09	2.885E+00	1.006E+00	6.242E-03
106	REA-PLUG	232	2.400E-04	4.173E-07	2.408E-07	6.581E-07	4.172E-07	1.002E-10	2.732E+00	1.000E+00	4.157E-04
107	REB-PLUG	212	2.400E-04	4.090E-07	2.408E-07	6.498E-07	4.089E-07	9.816E-11	2.697E+00	1.000E+00	4.074E-04
108	EC1BS001LF	33	4.800E-06	3.745E-07	2.409E-07	6.155E-07	3.745E-07	1.798E-12	2.555E+00	1.000E+00	7.462E-06
109	IEV-POWEX	701	4.500E-03	3.687E-07	2.393E-07	6.080E-07	3.671E-07	1.659E-09	2.524E+00	1.007E+00	6.887E-03
110	IEV-SLB-U	160	3.720E-04	3.513E-07	2.408E-07	5.921E-07	3.512E-07	1.307E-10	2.458E+00	1.001E+00	5.425E-04
111	CIX-AV-LA	194	7.700E-04	3.134E-07	2.407E-07	5.541E-07	3.132E-07	2.413E-10	2.300E+00	1.001E+00	1.002E-03
112	CCX-XMTR1	153	4.780E-04	3.124E-07	2.408E-07	5.531E-07	3.122E-07	1.493E-10	2.296E+00	1.001E+00	6.198E-04
113	LPM-MAN01	227	1.340E-03	3.085E-07	2.405E-07	5.490E-07	3.081E-07	4.134E-10	2.279E+00	1.002E+00	1.716E-03
114	OTH-PO	63	1.200E-04	3.078E-07	2.409E-07	5.487E-07	3.078E-07	3.694E-11	2.278E+00	1.000E+00	1.533E-04
115	IEV-RCSLK	1526	6.200E-03	2.750E-07	2.392E-07	5.142E-07	2.733E-07	1.705E-09	2.134E+00	1.007E+00	7.078E-03
116	CVN-MAN00	33	3.100E-03	2.673E-07	2.401E-07	5.074E-07	2.664E-07	8.285E-10	2.106E+00	1.003E+00	3.439E-03
117	CCX-PMDMOD1	119	1 410E-04	2.666E-07	2.409E-07	5.075E-07	2.665E-07	3.759E-11	2.106E+00	1.000E+00	1.560E-04
118	ED1BSDS1TM	137	3.000E-04	2.641E-07	2.408E-07	5.050E-07	2.640E-07	7.924E-11	2.096E+00	1.000E+00	3.289E-04
119	CCX-PMD030	107	9.690E-05	2.639E-07	2.409E-07	5.048E-07	2.638E-07	2.557E-11	2.095E+00	1.000E+00	1.061E-04
120	OTH-SGTR	989	1.000E-02	2.599E-07	2.383E-07	4.982E-07	2.573E-07	2.599E-09	2.068E+00	1.011E+00	1.079E-02
121	ED1MOD113	119	3.170E-04	2.510E-07	2.408E-07	4.919E-07	2.510E-07	7.958E-11	2.042E+00	1.000E+00	3.303E-04
122	ED1MOD11	119	3.170E-04	2.510E-07	2.408E-07	4.919E-07	2.510E-07	7.958E-11	2.042E+00	1.000E+00	3.303E-04
123	CCX-BC-SA	7	8.400E-06	2.451E-07	2.409E-07	4.860E-07	2.451E-07	2.059E-12	2.017E+00	1.000E+00	8.545E-06
124	CCX-PM-ER	14	1.400E-05	2.430E-07	2.409E-07	4.839E-07	2.430E-07	3.402E-12	2.009E+00	1.000E+00	1.412E-05
125	CCX-PMAMOD1	124	1.410E-04	2.388E-07	2.409E-07	4.797E-07	2.387E-07	3.367E-11	1.991E+00	1.000E+00	1.397E-04
126	CCX-PMA030	105	9.690E-05	2.354E-07	2.409E-07	4.763E-07	2.354E-07	2.281E-11	1.977E+00	1.000E+00	9.467E-05
127	CVMOD04	111	7.370E-04	2.101E-07	2.408E-07	4.509E-07	2.099E-07	1.548E-10	1.871E+00	1.001E+00	6.427E-04
128	IDABSDK1TM	71	3.000E-04	2.037E-07	2.409E-07	4.445E-07	2.036E-07	6.110E-11	1.845E+00	1.000E+00	2.536E-04
129	OTH-SDMAN	96	7.700E-04	2.036E-07	2.408E-07	4.444E-07	2.035E-07	1.568E-10	1.845E+00	1.001E+00	6.508E-04
130	CVMOD01	75	2.210E-04	2.013E-07	2.409E-07	4.421E-07	2.012E-07	4.448E-11	1.835E+00	1.000E+00	1.846E-04
131	CCX-PMDMOD4	29	4.980E-05	1.895E-07	2.409E-07	4.304E-07	1.895E-07	9.435E-12	1.786E+00	1.000E+00	3.916E-05
132	CCX-PL3MOD1	59	1.410E-04	1.888E-07	2.409E-07	4.297E-07	1.888E-07	2.662E-11	1.784E+00	1.000E+00	1.105E-04
133	EC1BS122TM	235	2.700E-03	1.879E-07	2.404E-07	4.283E-07	1.874E-07	5.073E-10	1.778E+00	1.002E+00	2.106E-03
134	RN55MOD1	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02
135	RN23MOD5	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02
136	RN11MOD3	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02
137	RN22MOD4	362	1.410E-02	1.879E-07	2.383E-07	4.262E-07	1.852E-07	2.649E-09	1.769E+00	1.011E+00	1.100E-02
138	CLP-UNAVAILABLE	299	1.000E-02	1.876E-07	2.390E-07	4.267E-07	1.857E-07	1.876E-09	1.771E+00	1.008E+00	7.787E-03
139	RNX-KV1-GO	207	4.900E-03	1.869E-07	2.400E-07	4.269E-07	1.860E-07	9.160E-10	1.772E+00	1.004E+00	3.802E-03

Table 50-25 (Sheet 4 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

140	RHN-MAN01	168	2.900E-03	1.864E-07	2.404E-07	4.268E-07	1 859E-07	5.405E-10	1.771E+00	1.002E+00	2 244E-03
141	RNNCV013GO	142	1.750E-03	1.857E-07	2.406E-07	4.263E-07	1.853E-07	3.249E-10	1.769E+00	1.001E+00	1.349E-03
142	RNX-PM-FS	102	7.700E-04	1.838E-07	2.408E-07	4.246E-07	1.837E-07	1.415E-10	1.762E+00	1.001E+00	5.875E-04
143	RNX-KV-GO	92	6.100E-04	1.833E-07	2 408E-07	4.241E-07	1.832E-07	1.118E-10	1.760E+00	1.000E+00	4.640E-04
144	IDBBSDK1TM	64	3.000E-04	1.803E-07	2.409E-07	4.212E-07	1.803E-07	5.410E-11	1.748E+00	1.000E+00	2.246E-04
145	MDAS	799	1.000E-02	1.800E-07	2.391E-07	4.191E-07	1.782E-07	1.800E-09	1.740E+00	1.008E+00	7.471E-03
146	RNNCV056GO	61	2.190E-04	1.788E-07	2.409E-07	4.197E-07	1.788E-07	3.916E-11	1.742E+00	1.000E+00	1.625E-04
147	CANTP011RI	705	5.230E-03	1.770E-07	2.400E-07	4 170E-07	1 760E-07	9.255E-10	1.731E+00	1.004E+00	3.841E-03
148	RNBEP011SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	3.007E-11	1.730E+00	1.000E+00	1.248E-04
149	RNDEP023SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	3.007E-11	1.730E+00	1.000E+00	1.248E-04
150	RNAEP022SA	50	1.710E-04	1.758E-07	2.409E-07	4.167E-07	1.758E-07	3.007E-11	1.730E+00	1.000E+00	1.248E-04
151	CCX-PL303	41	9.690E-05	1.757E-07	2.409E-07	4.166E-07	1.757E-07	1.702E-11	1.729E+00	1.000E+00	7.066E-05
152	CCX-PL4MOD1	49	1.410E-04	1.757E-07	2.409E-07	4.166E-07	1.757E-07	2.477E-11	1.729E+00	1.000E+00	1.028E-04
153	CCX-PL403	47	9.690E-05	1.745E-07	2.409E-07	4.154E-07	1.745E-07	1.691E-11	1.724E+00	1.000E+00	7.019E-05
154	CCX-PLMMOD4	31	4.980E-05	1.736E-07	2.409E-07	4.145E-07	1.736E-07	8.645E-12	1.720E+00	1.000E+00	3 588E-05
155	CCX-PMAMOD4	29	4.980E-05	1.716E-07	2.409E-07	4.125E-07	1.716E-07	8.544E-12	1.712E+00	1.000E+00	3.546E-05
156	RNX-CV-GO	25	5.100E-05	1.699E-07	2.409E-07	4.108E-07	1.699E-07	8.664E-12	1.705E+00	1.000E+00	3.596E-05
157	CCX-PLMMOD4-SW	20	1.100E-05	1.694E-07	2.409E-07	4 104E-07	1.694E-07	1.864E-12	1.703E+00	1.000E+00	7.736E-06
158	CCX-PL4MOD1-SW	19	1.100E-05	1.682E-07	2.409E-07	4 091E-07	1.682E-07	1 850E-12	1.698E+00	1.000E+00	7.680E-06
159	IDAFD004RQ	19	1.200E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	2.017E-12	1.698E+00	1.000E+00	8.374E-06
160	IDBFD014RQ	19	1.200E-05	1 681E-07	2.409E-07	4.090E-07	1.681E-07	2.017E-12	1.698E+00	1 000E+00	8.374E-06
161	EC1MOD122	19	1.680E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	2.824E-12	1.698E+00	1 000E+00	1.172E-05
162	RNX-PM-ER	19	1.600E-05	1.681E-07	2.409E-07	4.090E-07	1.681E-07	2 689E-12	1.698E+00	1 000E+00	1.116E-05
163	OTH-PRSOV	664	1.000E-02	1.653E-07	2.393E-07	4 046E-07	1.636E-07	1 653E-09	1.679E+00	1.007E+00	6.861E-03
164	CCX-PLSMOD6	84	2.530E-04	1.636E-07	2.409E-07	4 045E-07	1.636E-07	4 140E-11	1.679E+00	1.000E+00	1.718E-04
165	IDABSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	7.828E-13	1.677E+00	1.000E+00	3.249E-06
166	ED1BSDS1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	7.828E-13	1.677E+00	1.000E+00	3.249E-06
167	IDBBSDK1LF	15	4.800E-06	1.631E-07	2.409E-07	4.040E-07	1.631E-07	7.828E-13	1.677E+00	1.000E+00	3.249E-06
168	SWAMOD09T	82	2.520E-04	1.624E-07	2.409E-07	4 032E-07	1.623E-07	4.091E-11	1.674E+00	1 000E+00	1.698E-04
169	CCX-PL4EH0	14	4.030E-06	1.608E-07	2.409E-07	4 017E-07	1.608E-07	6.480E-13	1.667E+00	1.000E+00	2.690E-06
170	CCX-PMAEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	6.480E-13	1.667E+00	1.000E+00	2 690E-06
171	CCX-PMDEH0	14	4.030E-06	1.608E-07	2.409E-07	4.017E-07	1.608E-07	6.480E-13	1 667E+00	1.000E+00	2.690E-06
172	REC-MANDAS	381	1.160E-02	1.574E-07	2.391E-07	3.965E-07	1.555E-07	1.825E-09	1.646E+00	1.008E+00	7.577E-03
173	CCX-PL9MOD1	61	1.410E-04	1.557E-07	2.409E-07	3.966E-07	1.557E-07	2.196E-11	1.646E+00	1 000E+00	9.115E-05
174	CAX-CM-ER	58	1.200E-04	1.556E-07	2.409E-07	3.965E-07	1.556E-07	1.867E-11	1.646E+00	1 000E+00	7.749E-05
175	CCX-PLMOD3	54	1.030E-04	1.552E-07	2.409E-07	3.961E-07	1.552E-07	1 598E-11	1.644E+00	1.000E+00	6.634E-05
176	CCX-PL903	53	9.690E-05	1.551E-07	2.409E-07	3.960E-07	1.550E-07	1.502E-11	1.644E+00	1 000E+00	6.236E-05
177	CCX-PL2MOD5	41	6.980E-05	1.527E-07	2.409E-07	3.936E-07	1.527E-07	1.066E-11	1.634E+00	1.000E+00	4.425E-05
178	CCX-PL3MOD5	40	6.980E-05	1.511E-07	2.409E-07	3.920E-07	1.511E-07	1.055E-11	1.627E+00	1.000E+00	4.378E-05
179	SWX-PM-ER	12	1.400E-05	1.391E-07	2.409E-07	3.800E-07	1.391E-07	1.947E-12	1 577E+00	1.000E+00	8 083E-06
180	ATW-MAN05	5	5.200E-03	1.369E-07	2.402E-07	3.771E-07	1.362E-07	7.118E-10	1.565E+00	1.003E+00	2 954E-03
181	CCX-EAO	10	3 230E-06	1.361E-07	2.409E-07	3.770E-07	1 361E-07	4 396E-13	1 565E+00	1 000E+00	1.825E-06
182	CCX-PLSMOD6-SW	10	1.100E-05	1.359E-07	2.409E-07	3 768E-07	1.359E-07	1 495E-12	1.564E+00	1 000E+00	6.204E-06
183	CCX-PLMOD3-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1 564E+00	1.000E+00	6.204E-06
184	CCX-PL3MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1.564E+00	1.000E+00	6 204E-06
185	CCX-PL9MOD1-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1.495E-12	1 564E+00	1.000E+00	6.204E-06
186	CCX-PL2MOD5-SW	10	1.100E-05	1.359E-07	2.409E-07	3.768E-07	1.359E-07	1 495E-12	1.564E+00	1.000E+00	6.204E-06
187	CCX-EAI	10	1.270E-05	1.357E-07	2.409E-07	3.767E-07	1.357E-07	1.724E-12	1.563E+00	1 000E+00	7.155E-06

Table 50-25 (Sheet 5 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

188	SGBAV040LA	276	1.090E-03	1.346E-07	2.408E-07	3.754E-07	1.345E-07	1.467E-10	1.558E+00	1.001E+00	6.091E-04
189	CVX-PM-ER	7	3.700E-05	1.284E-07	2.409E-07	3.693E-07	1.283E-07	4.749E-12	1.533E+00	1.000E+00	1.971E-05
190	CASPPRUPT	6	2.000E-06	1.198E-07	2.409E-07	3.607E-07	1.198E-07	2.396E-13	1.497E+00	1.000E+00	9.945E-07
191	EC2BS002TM	501	2.700E-03	1.173E-07	2.406E-07	3.579E-07	1.169E-07	3.166E-10	1.485E+00	1.001E+00	1.314E-03
192	CCX-HE-AF	4	1.200E-06	1.080E-07	2.409E-07	3.489E-07	1 080E-07	1.296E-13	1.448E+00	1.000E+00	5.379E-07
193	EC2BS022TM	337	2.700E-03	1.048E-07	2.406E-07	3.454E-07	1.045E-07	2.829E-10	1.434E+00	1.001E+00	1.174E-03
194	CCX-BL-ER	2	1.200E-05	1.041E-07	2.409E-07	3.450E-07	1.041E-07	1.249E-12	1.432E+00	1.000E+00	5.184E-06
195	VWX-RF-ER	2	1.200E-05	1.041E-07	2.409E-07	3 450E-07	1.041E-07	1.249E-12	1.432E+00	1.000E+00	5.184E-06
196	CCX-PL3MOD1-SW	2	1.100E-05	1.040E-07	2.409E-07	3.449E-07	1.040E-07	1.144E-12	1.432E+00	1.000E+00	4.748E-06
197	CCX-PL3EH0	2	4.030E-06	1.040E-07	2.409E-07	3.449E-07	1.040E-07	4.190E-13	1.432E+00	1.000E+00	1.739E-06
198	DAS	322	1.000E-02	1.007E-07	2.399E-07	3.406E-07	9.967E-08	1.007E-09	1.414E+00	1.004E+00	4.179E-03
199	CCX-PMBMOD1	75	1.410E-04	9.720E-08	2.409E-07	3.381E-07	9.719E-08	1.371E-11	1.403E+00	1.000E+00	5.689E-05
200	CCX-PMB030	63	9.690E-05	9.547E-08	2.409E-07	3.364E-07	9.546E-08	9.251E-12	1.396E+00	1.000E+00	3.840E-05
201	OTH-SLSOV1	557	2.100E-02	9.277E-08	2.390E-07	3.317E-07	9.082E-08	1.948E-09	1.377E+00	1.008E+00	8.086E-03
202	EC0MOD01	1460	5.080E-03	9.180E-08	2.405E-07	3.323E-07	9.133E-08	4.663E-10	1.379E+00	1.002E+00	1.936E-03
203	EC2BS221TM	260	2.700E-03	9.117E-08	2.407E-07	3.318E-07	9.092E-08	2.462E-10	1.377E+00	1.001E+00	1.022E-03
204	EC1BS121TM	258	2.700E-03	8.138E-08	2.407E-07	3.221E-07	8.116E-08	2.197E-10	1.337E+00	1.001E+00	9.120E-04
205	IWX-EV2-SA	7	5.800E-06	7.947E-08	2.409E-07	3.204E-07	7.947E-08	4.609E-13	1.330E+00	1.000E+00	1.913E-06
206	ATW-MAN03	104	5.200E-02	7.075E-08	2.372E-07	3.080E-07	6.707E-08	3.679E-09	1.278E+00	1.016E+00	1.527E-02
207	ADX-MV-GO	75	7.480E-04	6.857E-08	2.409E-07	3.094E-07	6.852E-08	5.129E-11	1.284E+00	1.000E+00	2.129E-04
208	EC2MOD22	18	4.800E-05	6.821E-08	2.409E-07	3.091E-07	6.821E-08	3.274E-12	1.283E+00	1.000E+00	1.359E-05
209	EC2MOD221	8	1.680E-05	6.514E-08	2.409E-07	3.061E-07	6.514E-08	1.094E-12	1.270E+00	1.000E+00	4.543E-06
210	EC1MOD121	8	1.680E-05	6.514E-08	2.409E-07	3.061E-07	6.514E-08	1.094E-12	1.270E+00	1.000E+00	4.543E-06
211	EC2BS002LF	6	4.800E-06	6.304E-08	2.409E-07	3.040E-07	6.304E-08	3.026E-13	1.262E+00	1.000E+00	1.256E-06
212	IWX-EV4-SA	59	5.800E-05	5.999E-08	2.409E-07	3.009E-07	5.998E-08	3.479E-12	1.249E+00	1.000E+00	1.444E-05
213	ED4MOD11	194	3.170E-04	5.482E-08	2.409E-07	2.957E-07	5.481E-08	1.738E-11	1.227E+00	1.000E+00	7.214E-05
214	ED4BSDS1TM	190	3.000E-04	5.431E-08	2.409E-07	2.952E-07	5.429E-08	1.629E-11	1.225E+00	1.000E+00	6.762E-05
215	OTH-MGSET	29	1.750E-03	5.281E-08	2.408E-07	2.936E-07	5.272E-08	9.242E-11	1.219E+00	1.000E+00	3.836E-04
216	ED4MOD112	172	3.170E-04	5.050E-08	2.409E-07	2.914E-07	5.048E-08	1.601E-11	1.210E+00	1.000E+00	6.644E-05
217	CCX-PMCMOD1	53	1.410E-04	4.766E-08	2.409E-07	2.886E-07	4.765E-08	6.720E-12	1.198E+00	1.000E+00	2.789E-05
218	CCX-PMC030	43	9.690E-05	4.605E-08	2.409E-07	2.870E-07	4.605E-08	4.462E-12	1.191E+00	1.000E+00	1.852E-05
219	CMB-PLUG	11	7.270E-04	4.508E-08	2.409E-07	2.860E-07	4.505E-08	3.277E-11	1.187E+00	1.000E+00	1.360E-04
220	OTH-SLSOV	321	1.100E-02	4.159E-08	2.405E-07	2.821E-07	4.113E-08	4.575E-10	1.171E+00	1.002E+00	1.899E-03
221	OTH-PRES	52	2.000E-03	4.121E-08	2.408E-07	2.821E-07	4.113E-08	8.243E-11	1.171E+00	1.000E+00	3.421E-04
222	CCX-PMDMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1.168E+00	1.000E+00	5.099E-05
223	CCX-PMCMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1.168E+00	1.000E+00	5.099E-05
224	CCX-PMBMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1.168E+00	1.000E+00	5.099E-05
225	CCX-PMAMOD2	51	3.040E-04	4.041E-08	2.409E-07	2.813E-07	4.040E-08	1.229E-11	1 168E+00	1.000E+00	5.099E-05
226	IWB-PLUG	67	2.400E-04	3.961E-08	2.409E-07	2.805E-07	3 960E-08	9.506E-12	1.164E+00	1.000E+00	3.946E-05
227	CMBOR001EB	1	7.200E-07	3.931E-08	2.409E-07	2.802E-07	3.931E-08	2.830E-14	1.163E+00	1.000E+00	1.175E-07
228	CMB-CV	1	2.000E-06	3.925E-08	2.409E-07	2.802E-07	3.925E-08	7.850E-14	1.163E+00	1.000E+00	3.258E-07
229	CMBTK002AF	1	2.400E-06	3.925E-08	2.409E-07	2.802E-07	3.925E-08	9.420E-14	1.163E+00	1.000E+00	3.910E-07
230	FWX-MV2-GO	62	5.500E-04	3.900E-08	2.409E-07	2.799E-07	3.898E-08	2.145E-11	1.162E+00	1.000E+00	8.903E-05
231	FWX-PM2-FS	62	5.400E-04	3.900E-08	2.409E-07	2.799E-07	3.898E-08	2.106E-11	1.162E+00	1.000E+00	8.741E-05
232	RC1CB061GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04
233	RC1CB053GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04
234	RC1CB063GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04
235	RC1CB051GO	186	4.200E-03	3.819E-08	2.408E-07	2.790E-07	3.803E-08	1.604E-10	1.158E+00	1.001E+00	6.658E-04

Table 50-25 (Sheet 6 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

236	RPTMOD01	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
237	RPTMOD03	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
238	RPTMOD05	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
239	RPTMOD07	107	8.760E-04	3.585E-08	2.409E-07	2.767E-07	3.582E-08	3.141E-11	1.149E+00	1.000E+00	1.304E-04
240	CCX-PLBMOD1	23	1.410E-04	3.295E-08	2.409E-07	2.739E-07	3.295E-08	4.646E-12	1.137E+00	1.000E+00	1.929E-05
241	CCX-PLB03	19	9.690E-05	3.260E-08	2.409E-07	2.735E-07	3.260E-08	3.159E-12	1.135E+00	1.000E+00	1.311E-05
242	IRWMOD09	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	3.234E-08	4.728E-11	1.134E+00	1.000E+00	1.963E-04
243	IRWMOD11	67	1.460E-03	3.239E-08	2.409E-07	2.733E-07	3.234E-08	4.728E-11	1.134E+00	1.000E+00	1.963E-04
244	IWARS118BFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	3.183E-08	2.790E-11	1.132E+00	1.000E+00	1.158E-04
245	IWBRS118AFA	43	8.760E-04	3.185E-08	2.409E-07	2.727E-07	3.183E-08	2.790E-11	1.132E+00	1.000E+00	1.158E-04
246	RC1CB052GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	3.079E-08	1.299E-10	1.128E+00	1.001E+00	5.391E-04
247	RC1CB054GO	174	4.200E-03	3.092E-08	2.408E-07	2.717E-07	3.079E-08	1.299E-10	1.128E+00	1.001E+00	5.391E-04
248	RC1CB062GO	146	4.200E-03	3.072E-08	2.408E-07	2.715E-07	3.059E-08	1.290E-10	1.127E+00	1.001E+00	5.355E-04
249	RC1CB064GO	146	4.200E-03	3.072E-08	2.408E-07	2.715E-07	3.059E-08	1.290E-10	1.127E+00	1.001E+00	5.355E-04
250	CCX-PLBMOD1-SW	6	1.100E-05	3.004E-08	2.409E-07	2.710E-07	3.004E-08	3.304E-13	1.125E+00	1.000E+00	1.371E-06
251	IRCEP118ASA	9	1.710E-04	2.852E-08	2.409E-07	2.694E-07	2.852E-08	4.877E-12	1.118E+00	1.000E+00	2.024E-05
252	IRDEP118BSA	9	1.710E-04	2.852E-08	2.409E-07	2.694E-07	2.852E-08	4.877E-12	1.118E+00	1.000E+00	2.024E-05
253	RPTMOD02	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
254	RPTMOD06	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
255	RPTMOD04	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
256	RPTMOD08	77	8.760E-04	2.839E-08	2.409E-07	2.693E-07	2.837E-08	2.487E-11	1.118E+00	1.000E+00	1.032E-04
257	FWX-PM2-ER	4	5.900E-06	2.783E-08	2.409E-07	2.688E-07	2.783E-08	1.642E-13	1.116E+00	1.000E+00	6.816E-07
258	SGX-CV-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	2.781E-08	1.780E-13	1.115E+00	1.000E+00	7.388E-07
259	FWX-CV2-GO	4	6.400E-06	2.781E-08	2.409E-07	2.687E-07	2.781E-08	1.780E-13	1.115E+00	1.000E+00	7.388E-07
260	SGX-MV-RP	4	7.670E-06	2.780E-08	2.409E-07	2.687E-07	2.780E-08	2.132E-13	1.115E+00	1.000E+00	8.849E-07
261	CCX-PLBEH0	4	4.030E-06	2.779E-08	2.409E-07	2.687E-07	2.779E-08	1.120E-13	1.115E+00	1.000E+00	4.649E-07
262	SGX-AV-FA	4	6.300E-06	2.778E-08	2.409E-07	2.687E-07	2.778E-08	1.750E-13	1.115E+00	1.000E+00	7.264E-07
263	ZANMOD01	54	8.400E-05	2.733E-08	2.409E-07	2.682E-07	2.733E-08	2.296E-12	1.113E+00	1.000E+00	9.528E-06
264	PRAAV108LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.665E-08	2.908E-11	1.111E+00	1.000E+00	1.207E-04
265	PRAAV130LA	208	1.090E-03	2.668E-08	2.409E-07	2.676E-07	2.665E-08	2.908E-11	1.111E+00	1.000E+00	1.207E-04
266	PRBAV130LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2.641E-08	2.881E-11	1.110E+00	1.000E+00	1.196E-04
267	PRBAV108LA	208	1.090E-03	2.643E-08	2.409E-07	2.673E-07	2.641E-08	2.881E-11	1.110E+00	1.000E+00	1.196E-04
268	EC1BS013TM	192	2.700E-03	2.534E-08	2.409E-07	2.662E-07	2.527E-08	6.842E-11	1.105E+00	1.000E+00	2.840E-04
269	EC1BS011TM	329	2.700E-03	2.448E-08	2.409E-07	2.653E-07	2.441E-08	6.608E-11	1.101E+00	1.000E+00	2.743E-04
270	ED3MOD01	102	5.040E-04	2.339E-08	2.409E-07	2.643E-07	2.338E-08	1.179E-11	1.097E+00	1.000E+00	4.893E-05
271	PRBAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1.000E+00	4.853E-05
272	PRBAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1.000E+00	4.853E-05
273	PRAAV130TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1.000E+00	4.853E-05
274	PRAAV108TM	109	5.000E-04	2.339E-08	2.409E-07	2.643E-07	2.337E-08	1.169E-11	1.097E+00	1.000E+00	4.853E-05
275	IRBEP123ASA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	2.332E-08	3.989E-12	1.097E+00	1.000E+00	1.656E-05
276	IRBEP123BSA	16	1.710E-04	2.333E-08	2.409E-07	2.642E-07	2.332E-08	3.989E-12	1.097E+00	1.000E+00	1.656E-05
277	ED1MOD03	168	2.700E-03	2.142E-08	2.409E-07	2.623E-07	2.136E-08	5.783E-11	1.089E+00	1.000E+00	2.400E-04
278	CDNTK02AF	2	2.400E-06	2.083E-08	2.409E-07	2.618E-07	2.083E-08	5.000E-14	1.086E+00	1.000E+00	2.075E-07
279	MSHTP001RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	2.044E-08	1.074E-10	1.085E+00	1.000E+00	4.460E-04
280	MSHTP002RI	19	5.230E-03	2.054E-08	2.408E-07	2.614E-07	2.044E-08	1.074E-10	1.085E+00	1.000E+00	4.460E-04
281	IEV-LCAS	417	3.480E-02	1.932E-08	2.402E-07	2.596E-07	1.865E-08	6.725E-10	1.077E+00	1.003E+00	2.791E-03
282	EC2BS023TM	101	2.700E-03	1.795E-08	2.409E-07	2.588E-07	1.790E-08	4.846E-11	1.074E+00	1.000E+00	2.011E-04
283	ED3BSDS1TM	65	3.000E-04	1.742E-08	2.409E-07	2.583E-07	1.741E-08	5.226E-12	1.072E+00	1.000E+00	2.169E-05

Table 50-25 (Sheet 7 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

284	ED2BSDS1TM	52	3.000E-04	1.633E-08	2.409E-07	2.572E-07	1.632E-08	4.898E-12	1.068E+00	1.000E+00	2.033E-05
285	ED2MOD11	48	3.170E-04	1.576E-08	2.409E-07	2 567E-07	1.576E-08	4.997E-12	1.065E+00	1.000E+00	2.074E-05
286	OTH-PRESU	15	2.000E-03	1.561E-08	2.409E-07	2.565E-07	1.557E-08	3.121E-11	1.065E+00	1.000E+00	1.295E-04
287	IEV-SLB-D	18	5.960E-04	1.535E-08	2.409E-07	2.563E-07	1.534E-08	9.150E-12	1.064E+00	1.000E+00	3.798E-05
288	OTH-SLSOV3	511	5.400E-03	1.519E-08	2.408E-07	2.560E-07	1.510E-08	8.201E-11	1.063E+00	1.000E+00	3.404E-04
289	REC-MANDASC	723	5.060E-01	1.516E-08	2.333E-07	2.484E-07	7.487E-09	7.669E-09	1.031E+00	1.033E+00	3.183E-02
290	ZOX-PD-ES	93	2.000E-03	1.404E-08	2.409E-07	2.549E-07	1.402E-08	2.809E-11	1.058E+00	1.000E+00	1.166E-04
291	OTH-SLSOV2	97	1.000E-02	1.399E-08	2.408E-07	2.548E-07	1.385E-08	1.399E-10	1.057E+00	1.001E+00	5.807E-04
292	ZANTR-2AHF	14	2.880E-05	1.233E-08	2.409E-07	2.532E-07	1.233E-08	3.550E-13	1.051E+00	1.000E+00	1.474E-06
293	ECX-CB-GC	48	7.300E-04	1 227E-08	2.409E-07	2.532E-07	1.226E-08	8.957E-12	1 051E+00	1.000E+00	3.718E-05
294	OTH-SGTR1	75	6.700E-03	1.196E-08	2.408E-07	2.528E-07	1.188E-08	8.014E-11	1.049E+00	1.000E+00	3.326E-04
295	CONDVACUUM	35	1.000E-03	1.132E-08	2.409E-07	2.522E-07	1.131E-08	1.132E-11	1.047E+00	1.000E+00	4.698E-05
296	ZOX-DG-DR	36	4.400E-04	1.115E-08	2.409E-07	2.521E-07	1.115E-08	4.908E-12	1.046E+00	1.000E+00	2.037E-05
297	ECX-CB-CO	34	4.200E-04	1.112E-08	2.409E-07	2.520E-07	1.111E-08	4.669E-12	1.046E+00	1.000E+00	1.938E-05
298	IEV-LCOND	858	1.120E-01	1.111E-08	2.397E-07	2.508E-07	9.862E-09	1.244E-09	1.041E+00	1.005E+00	5.163E-03
299	EC1BS112TM	62	2.700E-03	1.090E-08	2.409E-07	2.518E-07	1 087E-08	2.942E-11	1.045E+00	1.000E+00	1.221E-04
300	EC1BS131TM	62	2.700E-03	1.090E-08	2.409E-07	2.518E-07	1.087E-08	2.942E-11	1.045E+00	1.000E+00	1.221E-04
301	IDDMOD32	67	3.170E-04	1.081E-08	2.409E-07	2.517E-07	1.081E-08	3.428E-12	1.045E+00	1.000E+00	1.423E-05
302	EC2BS021TM	89	2.700E-03	1.033E-08	2.409E-07	2.512E-07	1.030E-08	2.789E-11	1.043E+00	1.000E+00	1.158E-04
303	IDAMOD04	53	3.170E-04	1.014E-08	2.409E-07	2.511E-07	1.014E-08	3.215E-12	1.042E+00	1.000E+00	1.335E-05
304	ED1MOD01	35	5.040E-04	1.000E-08	2 409E-07	2.509E-07	9.997E-09	5.041E-12	1.041E+00	1.000E+00	2.092E-05
305	VWBMOD05	158	2.190E-02	9.985E-09	2.407E-07	2.507E-07	9.766E-09	2.187E-10	1.041E+00	1.001E+00	9.076E-04
306	VWBMOD04	141	1.830E-02	9.910E-09	2.407E-07	2.506E-07	9.729E-09	1.814E-10	1.040E+00	1.001E+00	7.527E-04
307	SWAMOD03	44	6.340E-04	9.692E-09	2.409E-07	2.506E-07	9.686E-09	6.145E-12	1.040E+00	1.000E+00	2.550E-05
308	IDBMOD24	42	3.170E-04	9.625E-09	2.409E-07	2.505E-07	9.622E-09	3.051E-12	1.040E+00	1.000E+00	1.266E-05
309	IDCMOD28	42	3.170E-04	9.625E-09	2.409E-07	2.505E-07	9.622E-09	3.051E-12	1.040E+00	1.000E+00	1.266E-05
310	RNAMOD09	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	8.958E-09	4.784E-10	1.037E+00	1.002E+00	1.986E-03
311	RNBMOD10	160	5.070E-02	9.436E-09	2.404E-07	2.499E-07	8.958E-09	4.784E-10	1.037E+00	1.002E+00	1.986E-03
312	VWN-MAN01	33	5.160E-03	8.947E-09	2.409E-07	2.498E-07	8.901E-09	4.617E-11	1.037E+00	1.000E+00	1.916E-04
313	VWBMOD06	33	5.180E-03	8.939E-09	2.409E-07	2.498E-07	8.893E-09	4.630E-11	1.037E+00	1.000E+00	1.922E-04
314	ED1MOD07	31	3.050E-04	8.922E-09	2.409E-07	2.498E-07	8.919E-09	2.721E-12	1.037E+00	1.000E+00	1.130E-05
315	ED1MOD13	31	3.170E-04	8.917E-09	2.409E-07	2.498E-07	8.914E-09	2.827E-12	1.037E+00	1.000E+00	1.173E-05
316	EC2BS212TM	31	2.700E-03	8.884E-09	2.409E-07	2.498E-07	8.860E-09	2.399E-11	1.037E+00	1.000E+00	9.956E-05
317	EC2BS231TM	31	2.700E-03	8.884E-09	2.409E-07	2.498E-07	8.860E-09	2.399E-11	1.037E+00	1.000E+00	9.956E-05
318	CCX-IV-XR1	6	2.400E-05	8.821E-09	2.409E-07	2.497E-07	8.821E-09	2.117E-13	1.037E+00	1.000E+00	8.787E-07
319	IEV-LOSP	530	1.200E-01	7.981E-09	2.400E-07	2.479E-07	7.023E-09	9.577E-10	1.029E+00	1.004E+00	3.975E-03
320	PMDMOD11	186	2.090E-03	7.809E-09	2.409E-07	2.487E-07	7.793E-09	1.632E-11	1 032E+00	1.000E+00	6.775E-05
321	VWAMOD02	14	6.120E-04	7.732E-09	2.409E-07	2.486E-07	7.727E-09	4.732E-12	1.032E+00	1.000E+00	1.964E-05
322	CANAV014LA	88	8.760E-03	7.581E-09	2.409E-07	2.484E-07	7.514E-09	6.641E-11	1.031E+00	1.000E+00	2.756E-04
323	IEV-ATWS	136	4.810E-01	7.495E-09	2.373E-07	2.448E-07	3.890E-09	3.605E-09	1.016E+00	1.015E+00	1.496E-02
324	IEV-ATW-S	55	1.480E-02	7.475E-09	2.408E-07	2.483E-07	7.364E-09	1.106E-10	1.031E+00	1.000E+00	4.592E-04
325	RNAMOD06	312	3.400E-02	7.420E-09	2.407E-07	2.481E-07	7.167E-09	2.523E-10	1.030E+00	1.001E+00	1.047E-03
326	PMAMOD11	190	2.090E-03	7.405E-09	2.409E-07	2.483E-07	7.389E-09	1.548E-11	1.031E+00	1.000E+00	6.424E-05
327	ZOX-DG-DS	20	2.800E-04	7.319E-09	2.409E-07	2.482E-07	7.317E-09	2.049E-12	1.030E+00	1.000E+00	8.507E-06
328	PLMMOD41	33	6.350E-04	7.247E-09	2.409E-07	2.482E-07	7.243E-09	4.602E-12	1.030E+00	1.000E+00	1.910E-05
329	CDNTF01BRI	82	5.230E-03	7.195E-09	2.409E-07	2.481E-07	7.157E-09	3.763E-11	1.030E+00	1.000E+00	1.562E-04
330	CCAMOD03	26	6.140E-04	7.159E-09	2.409E-07	2.481E-07	7.155E-09	4.396E-12	1.030E+00	1.000E+00	1.825E-05
331	CIAEP014SA	8	1.710E-04	7.147E-09	2.409E-07	2.481E-07	7.146E-09	1.222E-12	1.030E+00	1.000E+00	5.073E-06

Table 50-25 (Sheet 8 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

332	RNBMOD07	199	3.400E-02	6.901E-09	2.407E-07	2.476E-07	6.667E-09	2.346E-10	1.028E+00	1.001E+00	9.739E-04
333	PMD0301ASA	113	1.160E-03	6.897E-09	2.409E-07	2.478E-07	6.889E-09	8.001E-12	1.029E+00	1 000E+00	3.321E-05
334	PMD0301BSA	103	1.160E-03	6.712E-09	2.409E-07	2.476E-07	6.704E-09	7.786E-12	1.028E+00	1 000E+00	3.232E-05
335	ATW-MAN04C	34	5.260E-01	6.695E-09	2.374E-07	2.441E-07	3.174E-09	3.522E-09	1.013E+00	1.015E+00	1.462E-02
336	PMA0301ASA	110	1.160E-03	6.475E-09	2.409E-07	2.474E-07	6.467E-09	7.511E-12	1.027E+00	1.000E+00	3.117E-05
337	PMA0301BSA	100	1.160E-03	6.289E-09	2.409E-07	2.472E-07	6.282E-09	7.296E-12	1.026E+00	1.000E+00	3.028E-05
338	PMBMOD11	112	2.090E-03	6.037E-09	2.409E-07	2.469E-07	6.024E-09	1.262E-11	1.025E+00	1.000E+00	5.237E-05
339	IDDMOD33	63	5.160E-04	5.936E-09	2.409E-07	2.469E-07	5.933E-09	3.063E-12	1.025E+00	1.000E+00	1.271E-05
340	RNAEP01ASA	19	1.710E-04	5.848E-09	2.409E-07	2.468E-07	5.847E-09	1.000E-12	1 024E+00	1.000E+00	4.151E-06
341	VWAMOD01	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	5.756E-09	1.451E-12	1.024E+00	1.000E+00	6.023E-06
342	VWAMOD03	6	2.520E-04	5.758E-09	2.409E-07	2.467E-07	5.756E-09	1.451E-12	1.024E+00	1.000E+00	6.023E-06
343	PMCMOD11	97	2.090E-03	5.729E-09	2.409E-07	2.466E-07	5.717E-09	1.197E-11	1.024E+00	1.000E+00	4.970E-05
344	ZO1DG001TM	762	4.600E-02	5.727E-09	2.407E-07	2.464E-07	5.463E-09	2.634E-10	1.023E+00	1.001E+00	1.093E-03
345	PMAMOD31	46	5.020E-03	5.707E-09	2.409E-07	2.466E-07	5 679E-09	2.865E-11	1.024E+00	1.000E+00	1.189E-04
346	PMBMOD32	46	5.020E-03	5.707E-09	2.409E-07	2 466E-07	5.679E-09	2.865E-11	1.024E+00	1.000E+00	1.189E-04
347	RNAEP01BSA	17	1.710E-04	5.699E-09	2.409E-07	2.466E-07	5.698E-09	9.745E-13	1.024E+00	1.000E+00	4.045E-06
348	CVBPM01BTM	68	2 190E-02	5.457E-09	2.408E-07	2.463E-07	5.338E-09	1.195E-10	1.022E+00	1.000E+00	4.961E-04
349	PMBMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9.077E-05
350	PMDMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9.077E-05
351	PMCMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9 077E-05
352	PMAMOD21	98	4.070E-03	5.373E-09	2.409E-07	2.463E-07	5.351E-09	2.187E-11	1.022E+00	1.000E+00	9.077E-05
353	MSX-AV2-FA	44	2.310E-03	5.315E-09	2.409E-07	2.462E-07	5.303E-09	1.228E-11	1.022E+00	1.000E+00	5.096E-05
354	CVMOD03	44	1.120E-02	5.308E-09	2.409E-07	2.462E-07	5.249E-09	5.945E-11	1.022E+00	1.000E+00	2.468E-04
355	PL3MOD11	20	2 090E-03	5.297E-09	2.409E-07	2.462E-07	5.286E-09	1.107E-11	1.022E+00	1.000E+00	4.595E-05
356	IDAMOD05	47	5 160E-04	5.203E-09	2.409E-07	2.461E-07	5.200E-09	2 685E-12	1.022E+00	1.000E+00	1.114E-05
357	PMB0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	5.171E-09	6.005E-12	1.021E+00	1.000E+00	2.492E-05
358	PMC0301ASA	60	1.160E-03	5.177E-09	2.409E-07	2.461E-07	5.171E-09	6.005E-12	1.021E+00	1.000E+00	2 492E-05
359	ZO1MOD01	439	2.020E-02	5.150E-09	2.408E-07	2.460E-07	5.046E-09	1.040E-10	1.021E+00	1.000E+00	4 318E-04
360	PMB0301BSA	58	1.160E-03	5.149E-09	2 409E-07	2.461E-07	5.143E-09	5.973E-12	1.021E+00	1.000E+00	2.479E-05
361	PMC0301BSA	58	1 160E-03	5.149E-09	2.409E-07	2.461E-07	5.143E-09	5.973E-12	1.021E+00	1.000E+00	2.479E-05
362	CVMOD02	13	1.410E-03	5.121E-09	2.409E-07	2.460E-07	5.113E-09	7.220E-12	1.021E+00	1.000E+00	2.997E-05
363	PMCMOD33	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	5.032E-09	2.539E-11	1.021E+00	1.000E+00	1.054E-04
364	PMDMOD34	27	5.020E-03	5.057E-09	2.409E-07	2.460E-07	5.032E-09	2.539E-11	1.021E+00	1.000E+00	1.054E-04
365	CANCV015GC	415	2.450E-02	4.976E-09	2.408E-07	2.458E-07	4.854E-09	1.219E-10	1.020E+00	1.001E+00	5.060E-04
366	DUMP-MAN01	31	1 320E-03	4.945E-09	2.409E-07	2 459E-07	4.939E-09	6.528E-12	1.020E+00	1.000E+00	2.709E-05
367	ZOX-PD-ER	6	1.300E-04	4.850E-09	2.409E-07	2.458E-07	4.849E-09	6.305E-13	1.020E+00	1.000E+00	2.617E-06
368	IDCMOD29	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	4 834E-09	2.496E-12	1.020E+00	1.000E+00	1.036E-05
369	IDBMOD25	39	5.160E-04	4.837E-09	2.409E-07	2.458E-07	4 834E-09	2.496E-12	1.020E+00	1.000E+00	1 036E-05
370	PL30301ASA	12	1.160E-03	4.756E-09	2.409E-07	2.457E-07	4.751E-09	5.517E-12	1.020E+00	1.000E+00	2 290E-05
371	EC1BS111TM	163	2.700E-03	4.704E-09	2.409E-07	2.456E-07	4.691E-09	1.270E-11	1.019E+00	1.000E+00	5.272E-05
372	REACV119GO	79	1.750E-03	4.693E-09	2.409E-07	2.456E-07	4.685E-09	8.213E-12	1.019E+00	1.000E+00	3.409E-05
373	REBCV119GO	79	1.750E-03	4.693E-09	2.409E-07	2.456E-07	4 685E-09	8.213E-12	1.019E+00	1.000E+00	3 409E-05
374	PL30301BSA	11	1.160E-03	4.670E-09	2.409E-07	2.456E-07	4 664E-09	5.417E-12	1.019E+00	1.000E+00	2 248E-05
375	IRWMOD10	71	1.460E-03	4.649E-09	2.409E-07	2.456E-07	4.643E-09	6.788E-12	1.019E+00	1.000E+00	2 818E-05
376	IRWMOD12	71	1.460E-03	4.649E-09	2.409E-07	2.456E-07	4.643E-09	6.788E-12	1.019E+00	1.000E+00	2.818E-05
377	EC2MOD23	8	4.800E-05	4.613E-09	2.409E-07	2.455E-07	4.612E-09	2.214E-13	1.019E+00	1.000E+00	9.190E-07
378	EC1MOD13	8	4.800E-05	4.613E-09	2.409E-07	2.455E-07	4.612E-09	2.214E-13	1.019E+00	1.000E+00	9.190E-07
379	CCX-BY-PN1	5	5.700E-05	4.589E-09	2.409E-07	2.455E-07	4.589E-09	2.616E-13	1 019E+00	1.000E+00	1.086E-06

Table 50-25 (Sheet 9 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

380	FSMOD255A	14	5.800E-04	4.424E-09	2 409E-07	2 453E-07	4.422E-09	2.566E-12	1.018E+00	1.000E+00	1.065E-05
381	CASMOD01	63	2.410E-03	4.384E-09	2.409E-07	2.453E-07	4.374E-09	1.057E-11	1.018E+00	1.000E+00	4.386E-05
382	IWCRS120BFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	4.124E-09	3.616E-12	1.017E+00	1.000E+00	1.501E-05
383	IWDRS120AFA	44	8.760E-04	4.127E-09	2.409E-07	2.450E-07	4.124E-09	3.616E-12	1.017E+00	1 000E+00	1.501E-05
384	PL2MOD11	12	2.090E-03	4.127E-09	2.409E-07	2.450E-07	4.118E-09	8.625E-12	1.017E+00	1.000E+00	3.580E-05
385	CVN-MAN03	11	1.070E-03	4.064E-09	2.409E-07	2.450E-07	4.060E-09	4.349E-12	1.017E+00	1.000E+00	1.805E-05
386	PRAMOD9	51	1.410E-02	4.007E-09	2.409E-07	2.449E-07	3.951E-09	5.650E-11	1.016E+00	1.000E+00	2.345E-04
387	ADN-MAN01C	13	5.000E-01	3.993E-09	2.389E-07	2.429E-07	1.996E-09	1.996E-09	1.008E+00	1.008E+00	8.287E-03
388	CV3EPCPASA	4	1.710E-04	3.901E-09	2.409E-07	2.448E-07	3.900E-09	6.670E-13	1.016E+00	1.000E+00	2.769E-06
389	PL20301ASA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	3.817E-09	4.433E-12	1.016E+00	1.000E+00	1 840E-05
390	PL20301BSA	8	1.160E-03	3.822E-09	2.409E-07	2.447E-07	3.817E-09	4.433E-12	1.016E+00	1.000E+00	1.840E-05
391	PMBXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1.015E+00	1.000E+00	1.232E-06
392	PMAXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1.015E+00	1.000E+00	1.232E-06
393	PMDXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1.015E+00	1.000E+00	1.232E-06
394	PMCXS00ASA	12	8.000E-05	3.709E-09	2.409E-07	2.446E-07	3.708E-09	2.967E-13	1.015E+00	1.000E+00	1.232E-06
395	CMAAV014LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	3.647E-09	5.809E-12	1.015E+00	1.000E+00	2.411E-05
396	CMAAV015LA	17	1.590E-03	3.653E-09	2.409E-07	2.446E-07	3.647E-09	5.809E-12	1.015E+00	1.000E+00	2.411E-05
397	EC1CB100VO	133	4.200E-03	3.638E-09	2.409E-07	2.445E-07	3.623E-09	1.528E-11	1.015E+00	1.000E+00	6.342E-05
398	VW2EPTRBSA	4	1.710E-04	3.556E-09	2.409E-07	2.445E-07	3.555E-09	6.080E-13	1.015E+00	1.000E+00	2.524E-06
399	CCX-PL2MOD1	4	1.410E-04	3.546E-09	2.409E-07	2.445E-07	3.546E-09	5.000E-13	1.015E+00	1.000E+00	2.075E-06
400	MSX-AV4-FA	3	2.000E-04	3.430E-09	2.409E-07	2.443E-07	3.429E-09	6.860E-13	1.014E+00	1.000E+00	2 847E-06
401	MSAEPSD5SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
402	MSAEPSD6SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
403	MSAEPSD4SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3 426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
404	MSAEPSD7SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
405	MSAEPSD2SA	3	1.710E-04	3.427E-09	2.409E-07	2 443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
406	MSAEPSD8SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
407	MSAEPSD3SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
408	MSAEPSD1SA	3	1.710E-04	3.427E-09	2.409E-07	2.443E-07	3.426E-09	5.860E-13	1.014E+00	1.000E+00	2.432E-06
409	ED3MOD03	104	2.700E-03	3.426E-09	2.409E-07	2.443E-07	3.416E-09	9.249E-12	1.014E+00	1.000E+00	3.839E-05
410	PRAMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	3.416E-09	7.223E-12	1.014E+00	1.000E+00	2.998E-05
411	PRBMOD10	19	2.110E-03	3.423E-09	2.409E-07	2.443E-07	3.416E-09	7.223E-12	1.014E+00	1.000E+00	2.998E-05
412	ED2MOD03	71	2.700E-03	3.370E-09	2.409E-07	2.443E-07	3.361E-09	9.100E-12	1.014E+00	1.000E+00	3.777E-05
413	CVMOD05	163	2.880E-02	3.197E-09	2.408E-07	2.440E-07	3.105E-09	9.207E-11	1.013E+00	1.000E+00	3.821E-04
414	CVMOD07	148	2.710E-02	3.195E-09	2.408E-07	2.440E-07	3.109E-09	8.660E-11	1 013E+00	1.000E+00	3.594E-04
415	CA9EPCMPASA	10	1.710E-04	3.138E-09	2.409E-07	2.441E-07	3.137E-09	5.366E-13	1.013E+00	1.000E+00	2.227E-06
416	LPM-MAN01C	5	5.000E-01	3.044E-09	2.394E-07	2.424E-07	1.522E-09	1.522E-09	1.006E+00	1.006E+00	6.317E-03
417	WLOAV006LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
418	WLOAV057LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
419	WLIAV004LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
420	WLIAV055LA	52	8.760E-03	2.682E-09	2.409E-07	2.436E-07	2.658E-09	2.349E-11	1.011E+00	1.000E+00	9.750E-05
421	ZO1MOD04	47	1.250E-03	2.652E-09	2.409E-07	2.436E-07	2.649E-09	3.315E-12	1.011E+00	1.000E+00	1.376E-05
422	IEV-LMTW	1334	3.350E-01	2.596E-09	2.401E-07	2 426E-07	1.726E-09	8.697E-10	1.007E+00	1.004E+00	3.610E-03
423	REG-MAN00	232	2.040E-01	2.560E-09	2.404E-07	2.430E-07	2.038E-09	5.223E-10	1.008E+00	1.002E+00	2.168E-03
424	EC1CB100RQ	2	1.440E-05	2.535E-09	2.409E-07	2.435E-07	2.535E-09	3.650E-14	1.011E+00	1.000E+00	1.515E-07
425	CCX-PLAMOD1	6	1.410E-04	2.527E-09	2.409E-07	2.434E-07	2.527E-09	3.563E-13	1.010E+00	1.000E+00	1.479E-06
426	EC1MOD11	4	4.800E-05	2.496E-09	2.409E-07	2.434E-07	2.496E-09	1.198E-13	1.010E+00	1.000E+00	4.973E-07
427	AD4MOD08D	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	2.106E-12	1.010E+00	1.000E+00	8.743E-06

Table 50-25 (Sheet 10 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

428	AD4MOD09C	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	2.106E-12	1 010E+00	1.000E+00	8.743E-06
429	AD4MOD07C	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	2.106E-12	1.010E+00	1.000E+00	8.743E-06
430	AD4MOD10D	42	8.760E-04	2.405E-09	2.409E-07	2.433E-07	2.402E-09	2.106E-12	1.010E+00	1.000E+00	8.743E-06
431	IEV-LMFW1	763	1.920E-01	2.359E-09	2.405E-07	2.428E-07	1.906E-09	4.528E-10	1.008E+00	1.002E+00	1.880E-03
432	CCX-PLA03	4	9.690E-05	2.341E-09	2.409E-07	2.433E-07	2.340E-09	2.268E-13	1.010E+00	1.000E+00	9.414E-07
433	IIPM-MAN01	6	5.020E-04	2.298E-09	2.409E-07	2.432E-07	2.296E-09	1.153E-12	1.010E+00	1.000E+00	4 787E-06
434	PRDEP108SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2.251E-09	3.850E-13	1.009E+00	1.000E+00	1.598E-06
435	PRCEP101SA	2	1.710E-04	2.251E-09	2.409E-07	2.432E-07	2.251E-09	3.850E-13	1.009E+00	1.000E+00	1.598E-06
436	PRCEP108SA	2	1.710E-04	2.251E-09	2 409E-07	2.432E-07	2.251E-09	3.850E-13	1.009E+00	1.000E+00	1.598E-06
437	PRI-MAN01	2	4.960E-04	2.250E-09	2.409E-07	2.432E-07	2.249E-09	1.116E-12	1.009E+00	1.000E+00	4.632E-06
438	IEV-LCCW	690	1.440E-01	2.241E-09	2.406E-07	2.428E-07	1.919E-09	3.228E-10	1.008E+00	1.001E+00	1.340E-03
439	IEV-TRANS	1500	1.400E+00	2.203E-09	2.378E-07	2.400E-07	-8.814E-10	3.085E-09	9 963E-01	1.013E+00	1.280E-02
440	ADF-MAN01	374	5.000E-01	2.029E-09	2.399E-07	2.419E-07	1.015E-09	1.015E-09	1 004E+00	1.004E+00	4.212E-03
441	IEV-LRCS	143	1.800E-02	1.957E-09	2 409E-07	2.428E-07	1.921E-09	3.522E-11	1.008E+00	1.000E+00	1.462E-04
442	ZOX-BL-ES	1	6 000E-05	1.867E-09	2 409E-07	2.428E-07	1.867E-09	1.120E-13	1.008E+00	1.000E+00	4.649E-07
443	CCX-PLDMOD1	1	1.410E-04	1.851E-09	2.409E-07	2.428E-07	1.851E-09	2.610E-13	1.008E+00	1.000E+00	1.083E-06
444	CCX-PLD03	1	9.690E-05	1.847E-09	2.409E-07	2.428E-07	1.847E-09	1.790E-13	1.008E+00	1.000E+00	7.430E-07
445	CV3EPCPBSA	2	1.710E-04	1 778E-09	2.409E-07	2.427E-07	1.777E-09	3.040E-13	1.007E+00	1.000E+00	1.262E-06
446	FWMOD03A	184	1.700E-02	1.626E-09	2.409E-07	2.425E-07	1.598E-09	2.764E-11	1.007E+00	1.000E+00	1.147E-04
447	PL4MOD11	71	2 090E-03	1.604E-09	2.409E-07	2.425E-07	1.601E-09	3.353E-12	1.007E+00	1.000E+00	1.392E-05
448	FWMOD013A	155	1.410E-02	1.590E-09	2.409E-07	2.425E-07	1.568E-09	2 242E-11	1.007E+00	1.000E+00	9.307E-05
449	ZO2DG002TM	230	4.600E-02	1.468E-09	2.409E-07	2.423E-07	1.401E-09	6.755E-11	1.006E+00	1.000E+00	2.804E-04
450	FWMOD03B	154	1.700E-02	1.407E-09	2.409E-07	2.423E-07	1.383E-09	2.392E-11	1 006E+00	1.000E+00	9.927E-05
451	ATW-MAN06C	1	5.000E-01	1.390E-09	2.402E-07	2.416E-07	6.950E-10	6.950E-10	1.003E+00	1.003E+00	2.885E-03
452	FWMOD013B	135	1.410E-02	1.384E-09	2 409E-07	2.423E-07	1.365E-09	1.952E-11	1.006E+00	1.000E+00	8.101E-05
453	OTH-R05	530	7.000E-01	1.368E-09	2.400E-07	2.413E-07	4 105E-10	9.577E-10	1.002E+00	1.004E+00	3.975E-03
454	SWN-MAN03	55	4.000E-02	1.333E-09	2.409E-07	2.422E-07	1.280E-09	5.333E-11	1.005E+00	1.000E+00	2.214E-04
455	PL40301ASA	43	1.160E-03	1.319E-09	2.409E-07	2.422E-07	1.317E-09	1.530E-12	1.005E+00	1.000E+00	6.350E-06
456	PL9MOD11	46	2.090E-03	1.318E-09	2.409E-07	2.422E-07	1.315E-09	2.754E-12	1.005E+00	1.000E+00	1.143E-05
457	ZO2MOD01	112	2.020E-02	1.236E-09	2.409E-07	2.421E-07	1.211E-09	2.496E-11	1.005E+00	1.000E+00	1.036E-04
458	PL9MOD12	32	2.090E-03	1.220E-09	2 409E-07	2.421E-07	1.217E-09	2.550E-12	1.005E+00	1.000E+00	1.058E-05
459	PMDMOD41	29	6.350E-04	1.183E-09	2.409E-07	2.421E-07	1.182E-09	7.510E-13	1 005E+00	1.000E+00	3 117E-06
460	PL40301BSA	35	1 160E-03	1.161E-09	2.409E-07	2.421E-07	1.160E-09	1.347E-12	1.005E+00	1.000E+00	5 591E-06
461	PL90301ASA	32	1.160E-03	1.127E-09	2.409E-07	2.420E-07	1.126E-09	1.307E-12	1.005E+00	1.000E+00	5.427E-06
462	EC2BS222TM	29	2.700E-03	1.121E-09	2.409E-07	2.420E-07	1.118E-09	3 026E-12	1.005E+00	1.000E+00	1.256E-05
463	SG2TF50ARI	18	5.230E-03	1.120E-09	2.409E-07	2.420E-07	1.114E-09	5 855E-12	1.005E+00	1.000E+00	2.430E-05
464	SGBAV074LA	79	8.760E-03	1.089E-09	2.409E-07	2.420E-07	1.080E-09	9.542E-12	1.004E+00	1.000E+00	3 961E-05
465	SGBAV075LA	79	8.760E-03	1 089E-09	2.409E-07	2.420E-07	1.080E-09	9.542E-12	1.004E+00	1.000E+00	3.961E-05
466	PL3MOD51	24	8.740E-04	1 046E-09	2.409E-07	2.420E-07	1.045E-09	9.138E-13	1.004E+00	1.000E+00	3.793E-06
467	PL90301BSA	28	1.160E-03	1 002E-09	2.409E-07	2.419E-07	1.001E-09	1.162E-12	1 004E+00	1.000E+00	4.824E-06
468	PMAMOD12	56	2 090E-03	9.911E-10	2 409E-07	2.419E-07	9 890E-10	2.071E-12	1.004E+00	1.000E+00	8.598E-06
469	PL90302ASA	16	1 160E-03	9.731E-10	2 409E-07	2 419E-07	9.720E-10	1 129E-12	1 004E+00	1 000E+00	4 685E-06
470	PMDMOD12	53	2.090E-03	9 717E-10	2.409E-07	2.419E-07	9.697E-10	2 031E-12	1.004E+00	1 000E+00	8.430E-06
471	CASMOD02	101	2.310E-02	9.210E-10	2.409E-07	2.418E-07	8.997E-10	2.128E-11	1.004E+00	1.000E+00	8.831E-05
472	ED2MOD01	12	5.040E-04	8 750E-10	2.409E-07	2.418E-07	8.746E-10	4.410E-13	1.004E+00	1.000E+00	1.830E-06
473	FWACV012GO	8	2.190E-04	8 658E-10	2.409E-07	2.418E-07	8.656E-10	1.896E-13	1 004E+00	1.000E+00	7.870E-07
474	FWBCV012GO	8	2.190E-04	8.658E-10	2 409E-07	2.418E-07	8 656E-10	1.896E-13	1.004E+00	1.000E+00	7.870E-07
475	ED3MOD11	8	3.170E-04	8.656E-10	2 409E-07	2.418E-07	8.653E-10	2.744E-13	1.004E+00	1.000E+00	1 139E-06

Table 50-25 (Sheet 11 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

476	ED3MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	2.744E-13	1.004E+00	1.000E+00	1.139E-06
477	ED4MOD111	8	3.170E-04	8.656E-10	2.409E-07	2.418E-07	8.653E-10	2.744E-13	1.004E+00	1.000E+00	1.139E-06
478	PL90302BSA	12	1.160E-03	8.479E-10	2.409E-07	2.418E-07	8.469E-10	9.836E-13	1.004E+00	1.000E+00	4.083E-06
479	AD4MOD10B	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	6.714E-13	1.003E+00	1.000E+00	2.787E-06
480	AD4MOD08B	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	6.714E-13	1.003E+00	1.000E+00	2.787E-06
481	AD4MOD07A	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	6.714E-13	1.003E+00	1.000E+00	2.787E-06
482	AD4MOD09A	16	8.760E-04	7.664E-10	2.409E-07	2.417E-07	7.658E-10	6.714E-13	1.003E+00	1.000E+00	2.787E-06
483	SFBEPSFPBSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
484	SFBEP013ASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
485	SFBEPSFPASA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
486	SFBEP013BSA	6	1.710E-04	7.661E-10	2.409E-07	2.417E-07	7.660E-10	1.310E-13	1.003E+00	1.000E+00	5.437E-07
487	EC2CB200VO	21	4.200E-03	7.334E-10	2.409E-07	2.417E-07	7.303E-10	3.080E-12	1.003E+00	1.000E+00	1.279E-05
488	PL4MOD12	41	2.090E-03	7.288E-10	2.409E-07	2.416E-07	7.272E-10	1.523E-12	1.003E+00	1.000E+00	6.322E-06
489	PLSMOD61	26	3.460E-03	7.103E-10	2.409E-07	2.416E-07	7.078E-10	2.458E-12	1.003E+00	1.000E+00	1.020E-05
490	PL2MOD51	16	8.740E-04	6.970E-10	2.409E-07	2.416E-07	6.964E-10	6.092E-13	1.003E+00	1.000E+00	2.529E-06
491	PMD0302ASA	28	1.160E-03	6.935E-10	2.409E-07	2.416E-07	6.927E-10	8.045E-13	1.003E+00	1.000E+00	3.339E-06
492	PMA0302ASA	28	1.160E-03	6.935E-10	2.409E-07	2.416E-07	6.927E-10	8.045E-13	1.003E+00	1.000E+00	3.339E-06
493	CABCM00BTM	20	1.500E-03	6.929E-10	2.409E-07	2.416E-07	6.919E-10	1.039E-12	1.003E+00	1.000E+00	4.314E-06
494	PLSMOD62	20	3.460E-03	6.649E-10	2.409E-07	2.416E-07	6.626E-10	2.300E-12	1.003E+00	1.000E+00	9.548E-06
495	IEV-ATW-T	13	1.170E+00	6.086E-10	2.402E-07	2.408E-07	-1.035E-10	7.120E-10	9.996E-01	1.003E+00	2.955E-03
496	FWA-CV-EO	4	1.000E-04	5.930E-10	2.409E-07	2.415E-07	5.929E-10	5.930E-14	1.002E+00	1.000E+00	2.461E-07
497	PL2MOD52	3	8.740E-04	5.684E-10	2.409E-07	2.415E-07	5.679E-10	4.968E-13	1.002E+00	1.000E+00	2.062E-06
498	AD3MOD03	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1.002E+00	1.000E+00	1.242E-04
499	AD3MOD04	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1.002E+00	1.000E+00	1.242E-04
500	AD2MOD01	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1.002E+00	1.000E+00	1.242E-04
501	AD2MOD02	75	5.640E-02	5.307E-10	2.409E-07	2.414E-07	5.008E-10	2.993E-11	1.002E+00	1.000E+00	1.242E-04
502	ED3MOD04	73	2.190E-02	5.306E-10	2.409E-07	2.414E-07	5.190E-10	1.162E-11	1.002E+00	1.000E+00	4.824E-05
503	PMA0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5.076E-10	5.895E-13	1.002E+00	1.000E+00	2.447E-06
504	PMD0302BSA	18	1.160E-03	5.082E-10	2.409E-07	2.414E-07	5.076E-10	5.895E-13	1.002E+00	1.000E+00	2.447E-06
505	PL7MOD12	2	2.090E-03	5.029E-10	2.409E-07	2.414E-07	5.018E-10	1.051E-12	1.002E+00	1.000E+00	4.362E-06
506	PL70302ASA	2	1.160E-03	5.026E-10	2.409E-07	2.414E-07	5.020E-10	5.830E-13	1.002E+00	1.000E+00	2.420E-06
507	PL70302BSA	2	1.160E-03	5.026E-10	2.409E-07	2.414E-07	5.020E-10	5.830E-13	1.002E+00	1.000E+00	2.420E-06
508	PL40302ASA	21	1.160E-03	4.944E-10	2.409E-07	2.414E-07	4.938E-10	5.735E-13	1.002E+00	1.000E+00	2.380E-06
509	PMAMOD41	11	6.350E-04	4.176E-10	2.409E-07	2.413E-07	4.174E-10	2.652E-13	1.002E+00	1.000E+00	1.101E-06
510	ZO2MOD04	7	1.250E-03	4.053E-10	2.409E-07	2.413E-07	4.048E-10	5.066E-13	1.002E+00	1.000E+00	2.103E-06
511	PL3MOD12	4	2.090E-03	3.895E-10	2.409E-07	2.413E-07	3.887E-10	8.140E-13	1.002E+00	1.000E+00	3.379E-06
512	EC2BS211TM	28	2.700E-03	3.860E-10	2.409E-07	2.413E-07	3.850E-10	1.042E-12	1.002E+00	1.000E+00	4.326E-06
513	PL40302BSA	13	1.160E-03	3.369E-10	2.409E-07	2.413E-07	3.365E-10	3.908E-13	1.001E+00	1.000E+00	1.622E-06
514	PLBMOD11	20	2.090E-03	3.319E-10	2.409E-07	2.413E-07	3.312E-10	6.936E-13	1.001E+00	1.000E+00	2.879E-06
515	PMBMOD12	17	2.090E-03	3.157E-10	2.409E-07	2.412E-07	3.151E-10	6.599E-13	1.001E+00	1.000E+00	2.739E-06
516	VFOAV009	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	2.686E-12	1.001E+00	1.000E+00	1.115E-05
517	VFIAV004	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	2.686E-12	1.001E+00	1.000E+00	1.115E-05
518	VFIAV010	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	2.686E-12	1.001E+00	1.000E+00	1.115E-05
519	VFOAV003	8	8.760E-03	3.066E-10	2.409E-07	2.412E-07	3.039E-10	2.686E-12	1.001E+00	1.000E+00	1.115E-05
520	ED1MOD06	8	3.480E-04	3.063E-10	2.409E-07	2.412E-07	3.062E-10	1.066E-13	1.001E+00	1.000E+00	4.425E-07
521	ATW-MAN04	26	5.200E-02	2.974E-10	2.409E-07	2.412E-07	2.819E-10	1.547E-11	1.001E+00	1.000E+00	6.419E-05
522	PLB0301ASA	16	1.160E-03	2.928E-10	2.409E-07	2.412E-07	2.924E-10	3.396E-13	1.001E+00	1.000E+00	1.410E-06
523	IDDMOD38	6	3.170E-04	2.845E-10	2.409E-07	2.412E-07	2.845E-10	9.020E-14	1.001E+00	1.000E+00	3.744E-07

Table 50-25 (Sheet 12 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

524	IDAMOD08	6	3.170E-04	2 845E-10	2.409E-07	2.412E-07	2 845E-10	9.020E-14	1.001E+00	1.000E+00	3.744E-07
525	ED3MOD06	1	3.480E-04	2 819E-10	2.409E-07	2.412E-07	2.818E-10	9.810E-14	1.001E+00	1.000E+00	4.072E-07
526	ZO1MOD03	2	1.000E-04	2 810E-10	2.409E-07	2.412E-07	2.810E-10	2.810E-14	1.001E+00	1.000E+00	1.166E-07
527	PMDMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2 682E-10	1.096E-12	1.001E+00	1.000E+00	4.549E-06
528	PMCMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2 682E-10	1.096E-12	1.001E+00	1.000E+00	4.549E-06
529	PMBMOD22	17	4.070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.096E-12	1.001E+00	1.000E+00	4.549E-06
530	PMAMOD22	17	4 070E-03	2.693E-10	2.409E-07	2.412E-07	2.682E-10	1.096E-12	1.001E+00	1.000E+00	4.549E-06
531	PLB0301BSA	14	1.160E-03	2.686E-10	2.409E-07	2.412E-07	2.683E-10	3.116E-13	1.001E+00	1.000E+00	1.293E-06
532	PMCMOD12	14	2.090E-03	2 598E-10	2.409E-07	2.412E-07	2.593E-10	5.430E-13	1.001E+00	1.000E+00	2.254E-06
533	CVBEP081SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	2.462E-10	4.210E-14	1.001E+00	1.000E+00	1.747E-07
534	CVAEP084SA	3	1.710E-04	2.462E-10	2.409E-07	2.412E-07	2.462E-10	4.210E-14	1.001E+00	1.000E+00	1 747E-07
535	PL30302ASA	2	1.160E-03	2.414E-10	2.409E-07	2.412E-07	2.411E-10	2.800E-13	1.001E+00	1.000E+00	1.162E-06
536	CCBMOD01	48	4.800E-02	2.259E-10	2.409E-07	2.411E-07	2.150E-10	1.084E-11	1.001E+00	1.000E+00	4.500E-05
537	SGAOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	2.187E-10	1.590E-12	1.001E+00	1.000E+00	6.601E-06
538	SGBOR--DAS-SP	7	7.220E-03	2.203E-10	2.409E-07	2.411E-07	2.187E-10	1.590E-12	1.001E+00	1.000E+00	6.601E-06
539	SWB-001TM	34	3.800E-02	2.149E-10	2.409E-07	2.411E-07	2 068E-10	8 168E-12	1.001E+00	1.000E+00	3.390E-05
540	SWBMOD02	31	2.440E-02	2.109E-10	2.409E-07	2.411E-07	2.057E-10	5.145E-12	1.001E+00	1.000E+00	2.136E-05
541	PMC0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.079E-10	2.414E-13	1.001E+00	1.000E+00	1.002E-06
542	PMB0302ASA	8	1.160E-03	2.081E-10	2.409E-07	2.411E-07	2.079E-10	2.414E-13	1.001E+00	1.000E+00	1.002E-06
543	SGATL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	2.027E-10	1.066E-12	1.001E+00	1.000E+00	4.423E-06
544	SGBTL--DAS-UF	5	5.230E-03	2.038E-10	2.409E-07	2.411E-07	2 027E-10	1.066E-12	1.001E+00	1.000E+00	4.423E-06
545	IWBCV124AO	9	1.750E-03	2.011E-10	2.409E-07	2.411E-07	2.007E-10	3.519E-13	1.001E+00	1.000E+00	1.461E-06
546	IRWMOD08	7	1.460E-03	1.877E-10	2.409E-07	2.411E-07	1 875E-10	2.741E-13	1.001E+00	1.000E+00	1.138E-06
547	PMC0302BSA	6	1.160E-03	1.803E-10	2 409E-07	2.411E-07	1 800E-10	2.091E-13	1.001E+00	1.000E+00	8.679E-07
548	PMB0302BSA	6	1.160E-03	1.803E-10	2.409E-07	2.411E-07	1.800E-10	2.091E-13	1.001E+00	1.000E+00	8.679E-07
549	PL30302BSA	1	1.160E-03	1.552E-10	2 409E-07	2.411E-07	1.550E-10	1.800E-13	1.001E+00	1.000E+00	7.471E-07
550	EC1MOD01	1	6.910E-05	1.505E-10	2.409E-07	2.411E-07	1.505E-10	1.040E-14	1.001E+00	1.000E+00	4.317E-08
551	ED1MOD02	2	1.920E-04	1.490E-10	2.409E-07	2.411E-07	1.489E-10	2.860E-14	1.001E+00	1.000E+00	1.187E-07
552	PLAMOD12	4	2.090E-03	1.336E-10	2.409E-07	2.411E-07	1.333E-10	2.792E-13	1.001E+00	1.000E+00	1.159E-06
553	MSMODV003	14	2.710E-02	1.201E-10	2.409E-07	2.410E-07	1.169E-10	3.255E-12	1.000E+00	1.000E+00	1.351E-05
554	MSMODV001	14	2.710E-02	1.201E-10	2.409E-07	2 410E-07	1.169E-10	3.255E-12	1.000E+00	1.000E+00	1 351E-05
555	PLBMOD12	8	2.090E-03	1.065E-10	2.409E-07	2.410E-07	1.063E-10	2.226E-13	1.000E+00	1.000E+00	9.240E-07
556	IDCMOD37	2	3.170E-04	1 013E-10	2.409E-07	2.410E-07	1.012E-10	3.210E-14	1.000E+00	1.000E+00	1.332E-07
557	IDBMOD36	2	3.170E-04	1.013E-10	2.409E-07	2.410E-07	1.012E-10	3.210E-14	1 000E+00	1.000E+00	1.332E-07
558	OTH-BL	23	1.900E-01	9.931E-11	2.409E-07	2.410E-07	8.044E-11	1.887E-11	1.000E+00	1.000E+00	7.832E-05
559	ED4MOD03	2	2.700E-03	9.111E-11	2.409E-07	2.410E-07	9.087E-11	2.460E-13	1.000E+00	1.000E+00	1.021E-06
560	PLA0302ASA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	7 509E-11	8.720E-14	1.000E+00	1 000E+00	3.619E-07
561	PLA0302BSA	2	1.160E-03	7.517E-11	2.409E-07	2.410E-07	7 509E-11	8.720E-14	1.000E+00	1.000E+00	3.619E-07
562	ED2MOD07	2	3.050E-04	7.213E-11	2 409E-07	2.410E-07	7 211E-11	2.200E-14	1.000E+00	1.000E+00	9 132E-08
563	ED2MOD13	2	3.170E-04	7.192E-11	2.409E-07	2.410E-07	7.190E-11	2.280E-14	1.000E+00	1.000E+00	9.464E-08
564	ED2MOD06	2	3.480E-04	7 184E-11	2.409E-07	2 410E-07	7.181E-11	2.500E-14	1 000E+00	1.000E+00	1.038E-07
565	PLB0302ASA	4	1.160E-03	6.776E-11	2.409E-07	2.410E-07	6.768E-11	7.860E-14	1 000E+00	1.000E+00	3.262E-07
566	SWBMOD11P	6	1 410E-02	6.383E-11	2.409E-07	2.410E-07	6.293E-11	9.000E-13	1.000E+00	1.000E+00	3.736E-06
567	CASMOD03	10	2.310E-02	6.295E-11	2.409E-07	2.410E-07	6.150E-11	1.454E-12	1.000E+00	1.000E+00	6.036E-06
568	CMBAV014LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	6 229E-11	9.920E-14	1 000E+00	1.000E+00	4.118E-07
569	CMBAV015LA	1	1.590E-03	6.239E-11	2.409E-07	2.410E-07	6.229E-11	9.920E-14	1.000E+00	1.000E+00	4.118E-07
570	ATW-MAN01C	9	5.170E-01	5.922E-11	2.409E-07	2.409E-07	2.860E-11	3.062E-11	1.000E+00	1.000E+00	1.271E-04
571	IWBCV122AO	3	1.750E-03	5.297E-11	2.409E-07	2.410E-07	5 288E-11	9.270E-14	1.000E+00	1.000E+00	3.848E-07

Table 50-25 (Sheet 13 of 13)

RISK INCREASES SORTED BY SLOPE (BIRNBAUM) IMPORTANCE

572	IRWMOD07	3	1.460E-03	5.295E-11	2.409E-07	2.410E-07	5.287E-11	7.730E-14	1.000E+00	1.000E+00	3.209E-07
573	EC3BS003TM	1	2.700E-03	4.667E-11	2.409E-07	2.410E-07	4.654E-11	1.260E-13	1.000E+00	1.000E+00	5.230E-07
574	VFSFRAC	16	1.200E-01	4.476E-11	2.409E-07	2.410E-07	3.939E-11	5.371E-12	1.000E+00	1.000E+00	2.229E-05
575	PLB0302BSA	2	1.160E-03	4.362E-11	2.409E-07	2 410E-07	4.357E-11	5.060E-14	1.000E+00	1.000E+00	2 100E-07
576	IWCRS125BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	4.163E-11	3.650E-14	1 000E+00	1.000E+00	1.515E-07
577	IWARS123BFA	2	8.760E-04	4.167E-11	2.409E-07	2.410E-07	4.163E-11	3.650E-14	1.000E+00	1.000E+00	1.515E-07
578	SGAAV040LA	2	1.090E-03	3.706E-11	2.409E-07	2.410E-07	3.702E-11	4.040E-14	1.000E+00	1.000E+00	1.677E-07
579	PLMMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3.510E-11	2.230E-14	1.000E+00	1.000E+00	9.256E-08
580	PMDMOD42	2	6.350E-04	3.512E-11	2.409E-07	2.410E-07	3.510E-11	2.230E-14	1.000E+00	1.000E+00	9 256E-08
581	PMAMOD42	2	6.350E-04	3.512E-11	2.409E-07	2 410E-07	3.510E-11	2.230E-14	1.000E+00	1.000E+00	9 256E-08
582	SFNMV067GC	14	1.100E-02	3.182E-11	2.409E-07	2.410E-07	3 147E-11	3.500E-13	1.000E+00	1.000E+00	1.453E-06
583	ATW-MAN01	6	3.300E-02	1.802E-11	2.409E-07	2.409E-07	1.743E-11	5.947E-13	1.000E+00	1.000E+00	2 468E-06
584	CVX-MV-GC2	4	4.400E-03	1.684E-11	2.409E-07	2.409E-07	1.677E-11	7.410E-14	1.000E+00	1.000E+00	3.076E-07
585	CVN-MAN02	2	1.580E-03	1.570E-11	2.409E-07	2.409E-07	1.567E-11	2.480E-14	1.000E+00	1.000E+00	1.029E-07
586	CCAMOD02	1	7.100E-03	1.352E-11	2.409E-07	2.409E-07	1.343E-11	9.600E-14	1.000E+00	1.000E+00	3.985E-07
587	AD1MOD06	11	5.640E-02	1.251E-11	2.409E-07	2.409E-07	1.181E-11	7.057E-13	1.000E+00	1.000E+00	2.929E-06
588	SGBAV057LA	1	1.090E-03	1.000E-11	2.409E-07	2.409E-07	9.989E-12	1.090E-14	1.000E+00	1.000E+00	4.524E-08
589	TCBMOD01B	1	2.520E-02	5.000E-12	2.409E-07	2.409E-07	4.874E-12	1.260E-13	1.000E+00	1.000E+00	5.230E-07
590	IDBMOD27	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
591	IDAMOD07	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
592	IDCMOD31	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
593	IDDMOD35	6	2.190E-02	3.973E-12	2.409E-07	2.409E-07	3.886E-12	8.700E-14	1.000E+00	1.000E+00	3.611E-07
594	CVNMV091GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.280E-12	2.189E-13	1.000E+00	1.000E+00	9.086E-07
595	CVNMV090GC	11	8.760E-02	2.499E-12	2.409E-07	2.409E-07	2.280E-12	2.189E-13	1.000E+00	1.000E+00	9.086E-07
596	ATW-MAN06	1	5.200E-03	2.173E-12	2.409E-07	2.409E-07	2.162E-12	1.130E-14	1.000E+00	1.000E+00	4.690E-08
597	AD1MOD05	6	5.640E-02	1.555E-12	2.409E-07	2.409E-07	1.467E-12	8.770E-14	1.000E+00	1.000E+00	3.640E-07
598	SGBAV250LA	1	8.760E-03	1.244E-12	2.409E-07	2.409E-07	1.233E-12	1.090E-14	1.000E+00	1.000E+00	4.524E-08
599	SGBCV058GC	1	2.450E-02	4.449E-13	2.409E-07	2.409E-07	4.340E-13	1.090E-14	1.000E+00	1.000E+00	4.524E-08