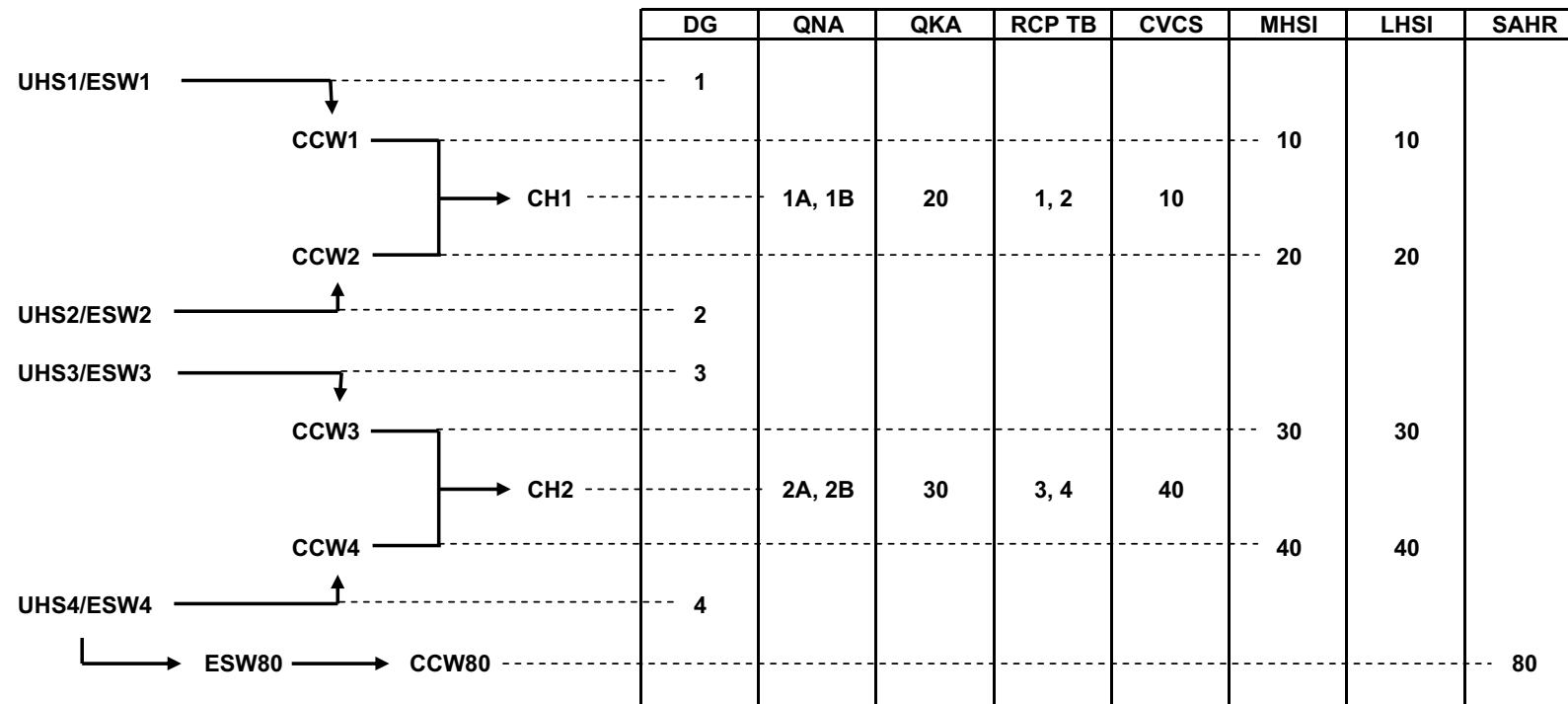
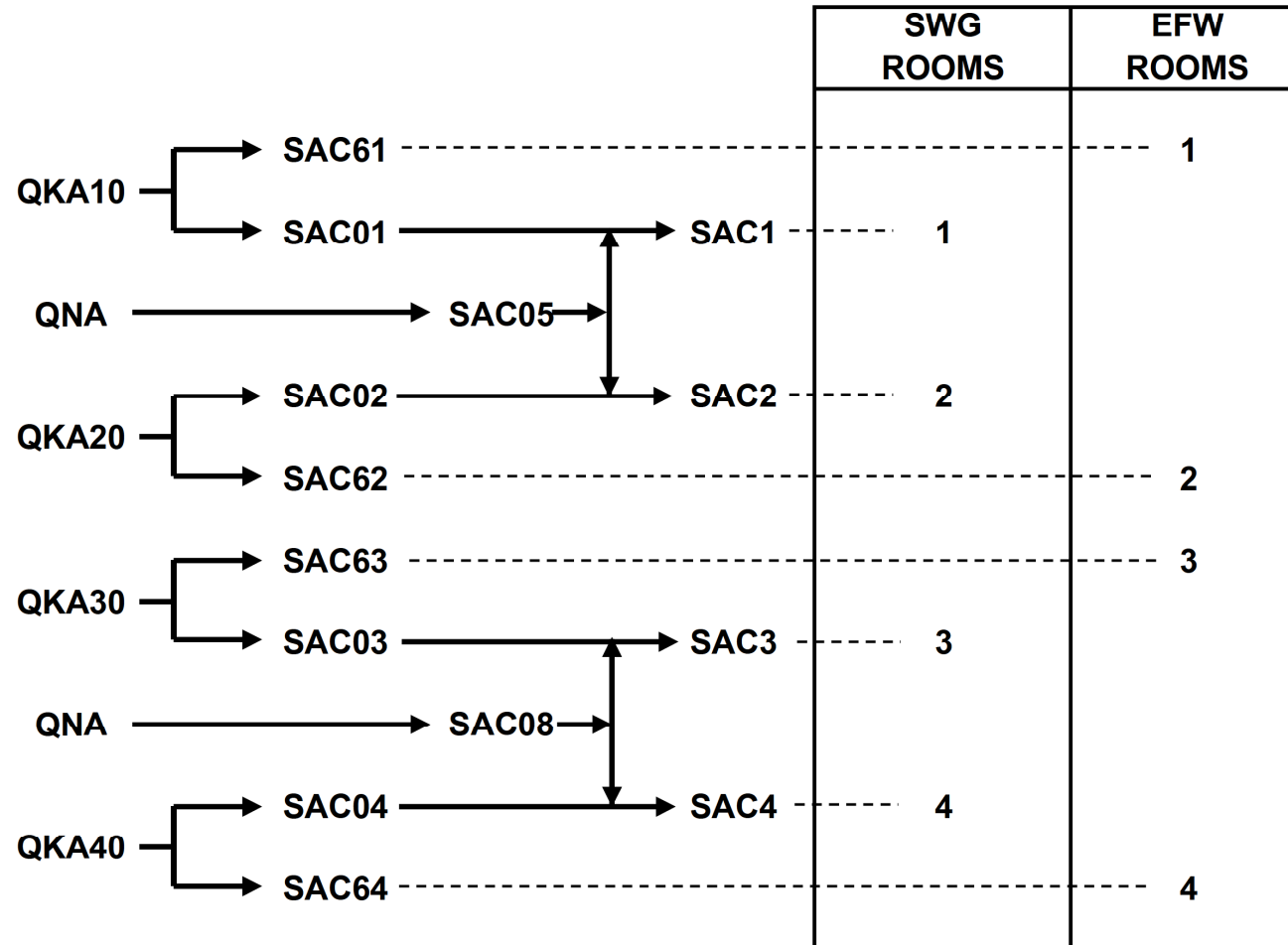


Figure 19.1-1—Cooling Water Dependencies Modeled in the U.S. EPR PRA



EPR6000 T2

Figure 19.1-2—Ventilation Dependencies Modeled in the U.S. EPR PRA



REV 005
EPR6005 T2

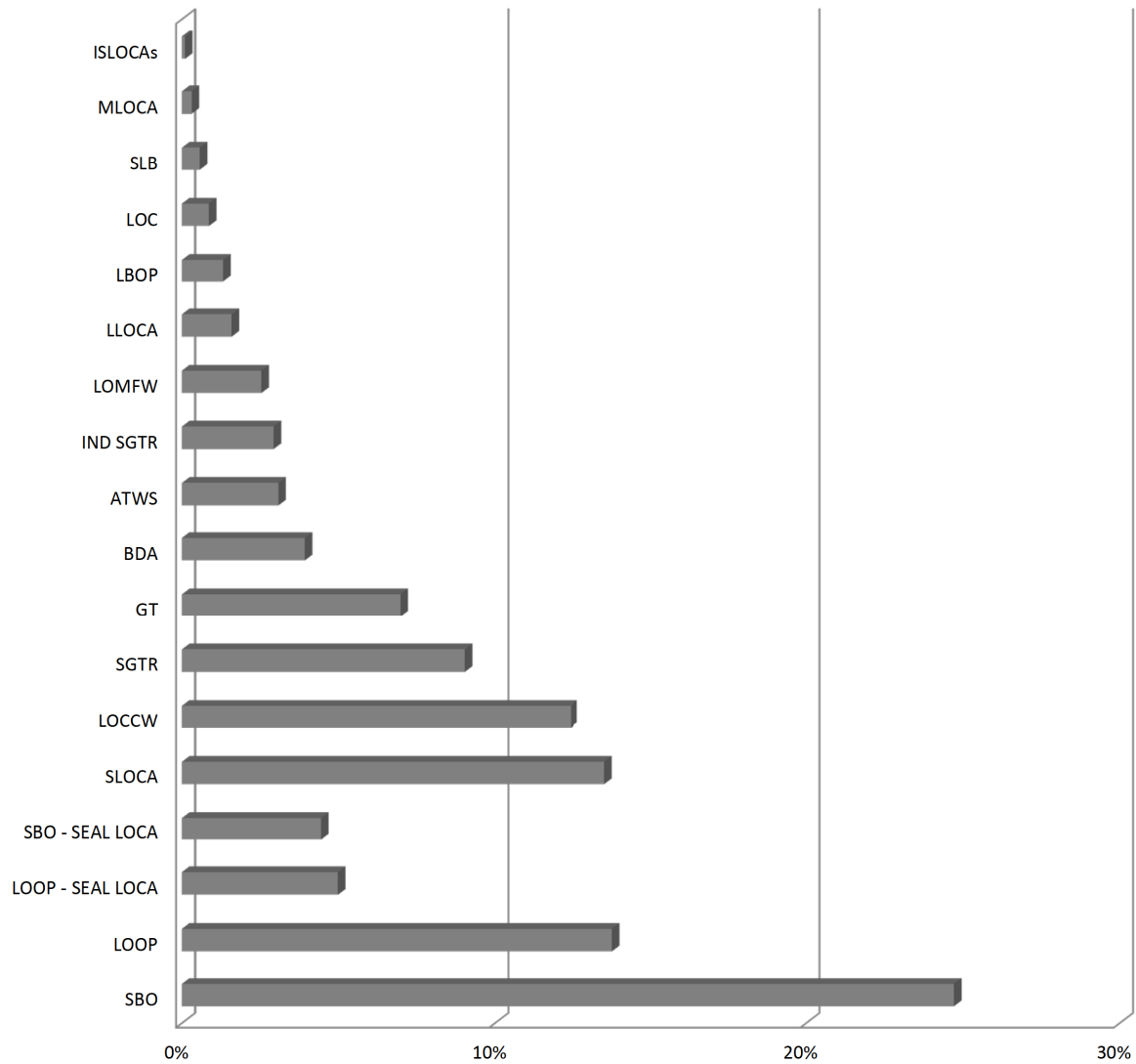
Figure 19.1-3—Selected Dependencies on Electric Power Modeled in the U.S. EPR PRA

		Electrical Dependency															
		RCP Seals				MSRIV				PSRV			PDSV		CCW Switchover		
		RCP1	RCP2	RCP3	RCP4	1	2	3	4	1	2	3	1	4	CH1	CH2	
1E 480 V	31BRA																
	32BRA																
	33BRA																
	34BRA																
Non 1E 480 V	31BRB																
	32BRB																
	33BRB																
	34BRB																
1E 24 V	BRW10 / BUW11																
	BRW32 / BUW33																
	BRW52 / BUW53																
	BRW70 / BUW71																
1E 24 V	BRW12 / BUW13																
	BRW30/ BUW31																
	BRW50 / BUW51																
	BRW72 / BUW73																

Note: The non 1E buses in the table are backed by 12-hour batteries; the 1E buses in the table are backed by 2-hr batteries.

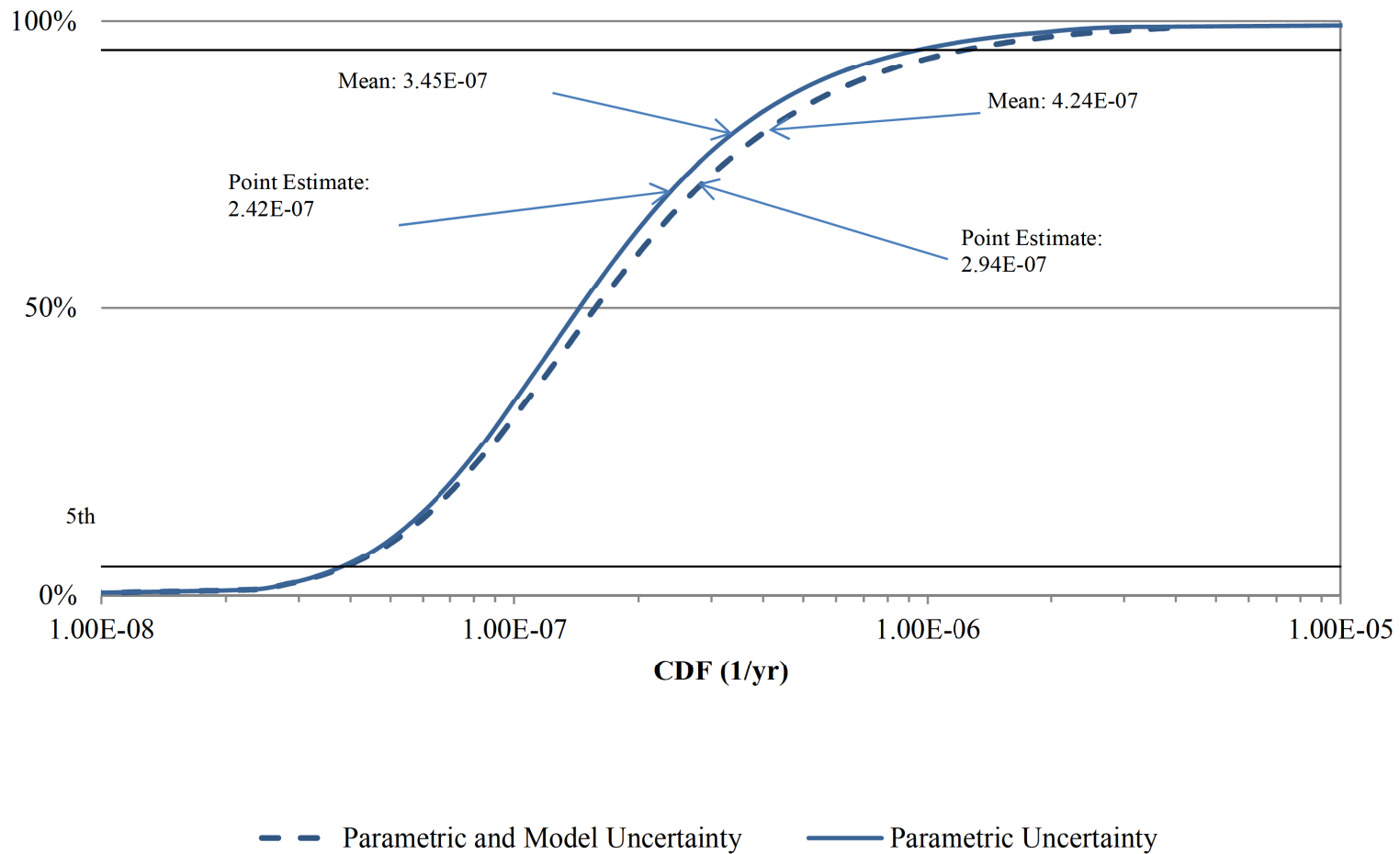
REV 005
EPR6010 T2

Figure 19.1-4—U.S. EPR Initiating Events Contributions – Level 1 Internal Event



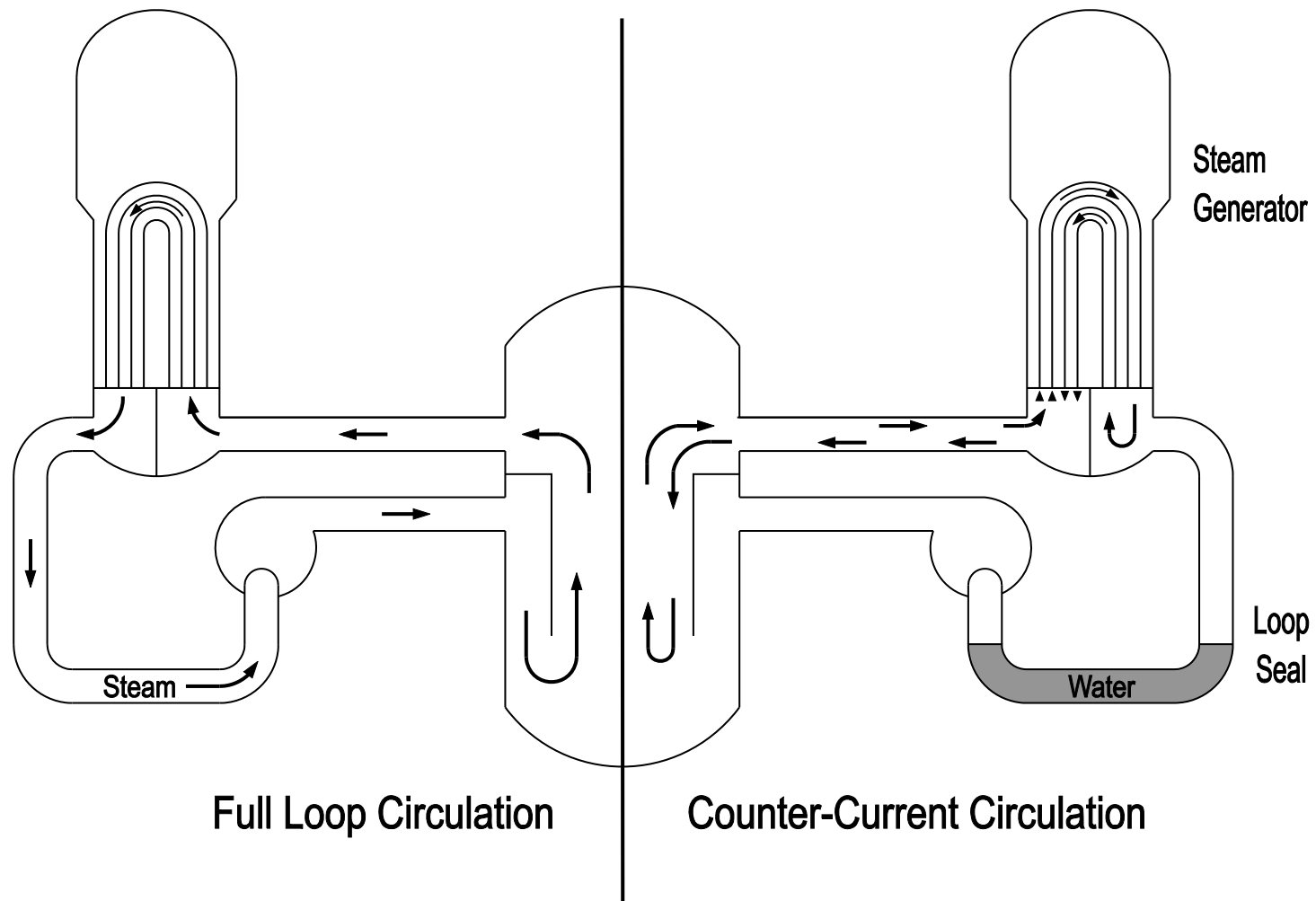
REV 005
EPR6015 T2

Figure 19.1-5—U.S. EPR Level 1 Internal Events Uncertainty Analysis Results – Cumulative Distributions for Internal Events CDF



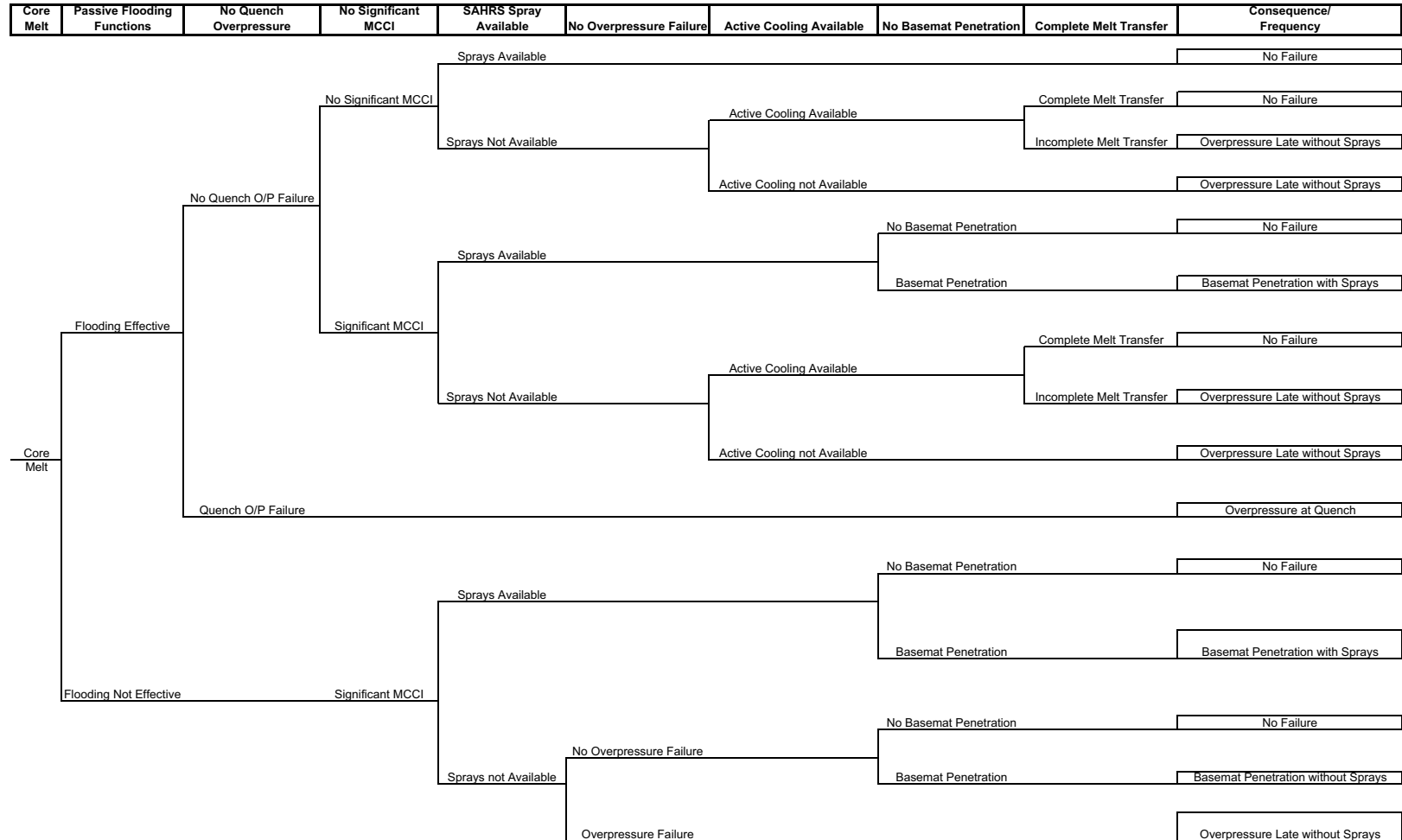
REV 005
EPR6020 T2

Figure 19.1-6—Natural Circulation Flowpaths in the Primary System



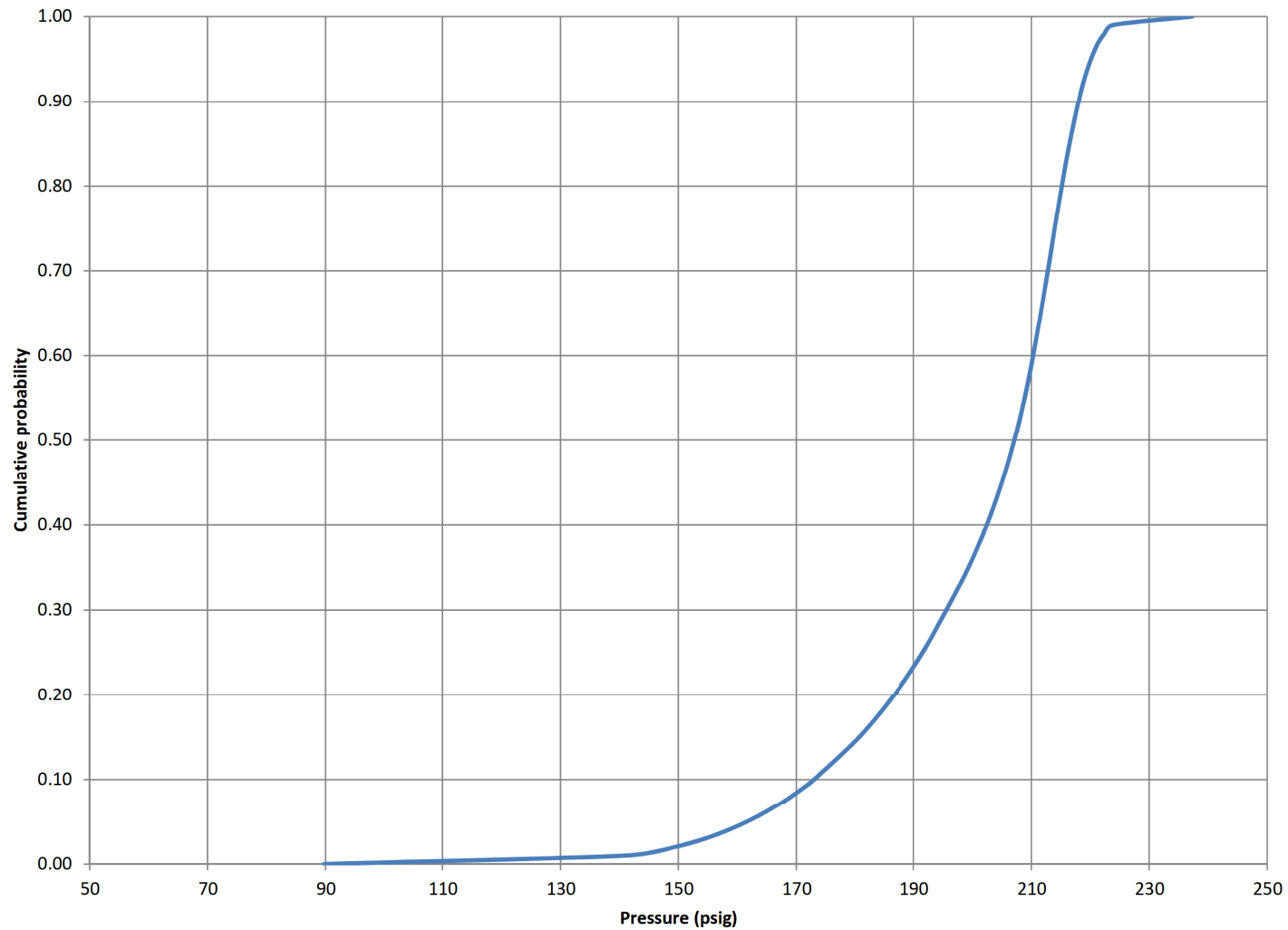
EPR6025 T2

Figure 19.1-7—Decomposition Event Tree for Long Term Challenges



EPR0027 T2

Figure 19.1-8—Containment Composite Fragility Curve at 309°F



REV 005
EPR6030 T2

Figure 19.1-9—U.S. EPR Level 2 Internal Events Uncertainty Analysis Results – Cumulative Distribution for Internal Events LRF

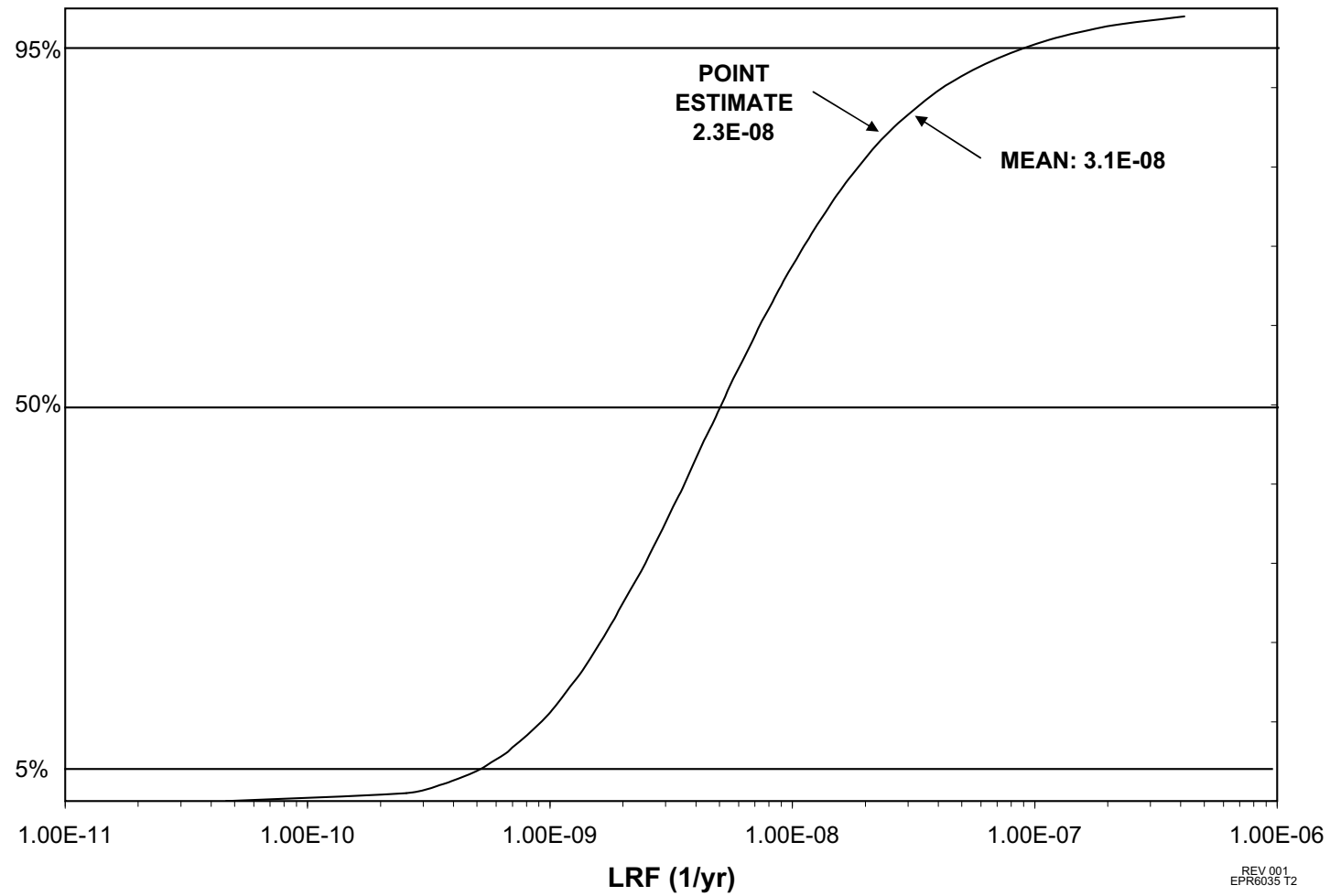
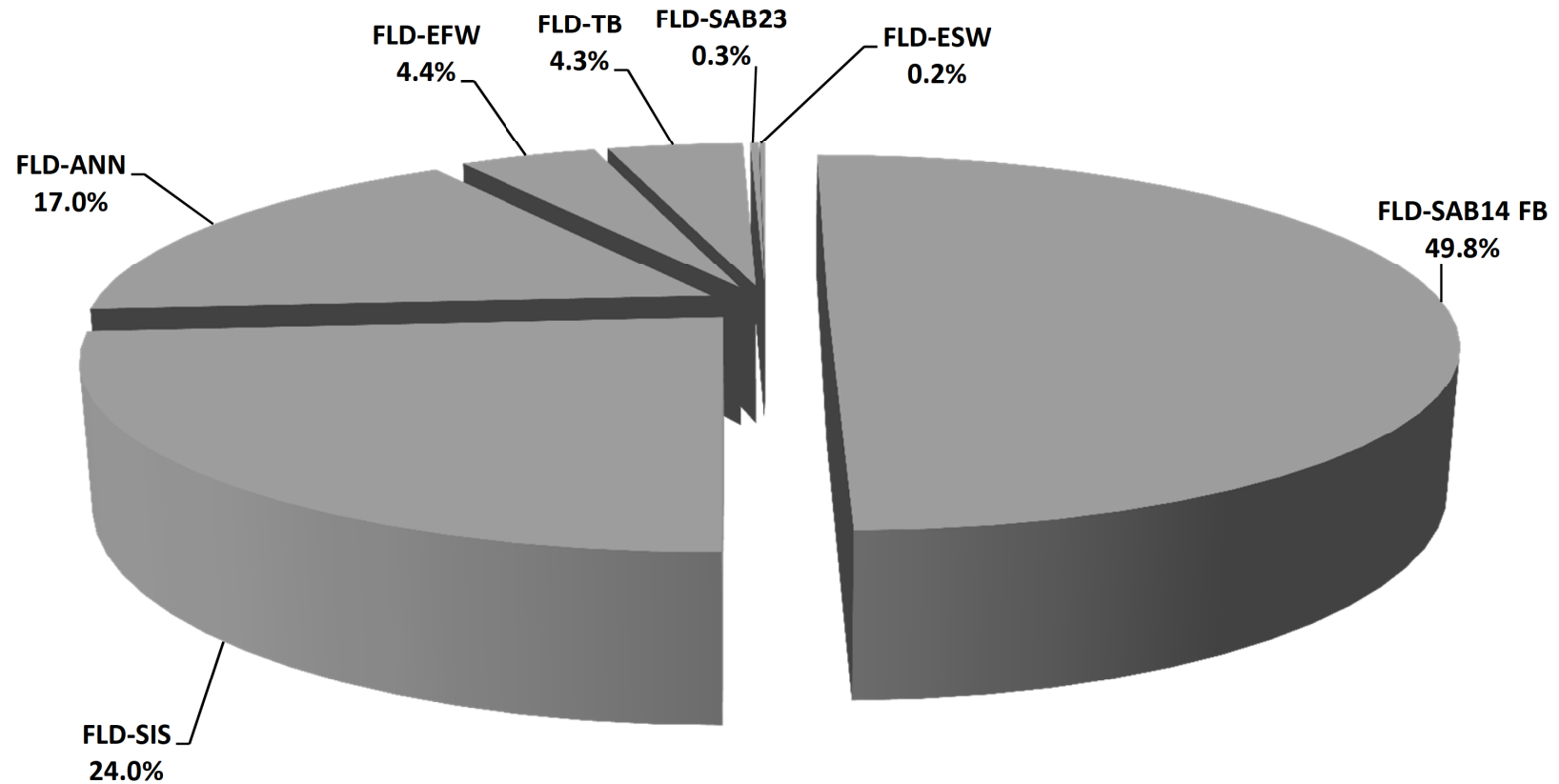


Figure 19.1-10—Deleted

Figure 19.1-11—Deleted

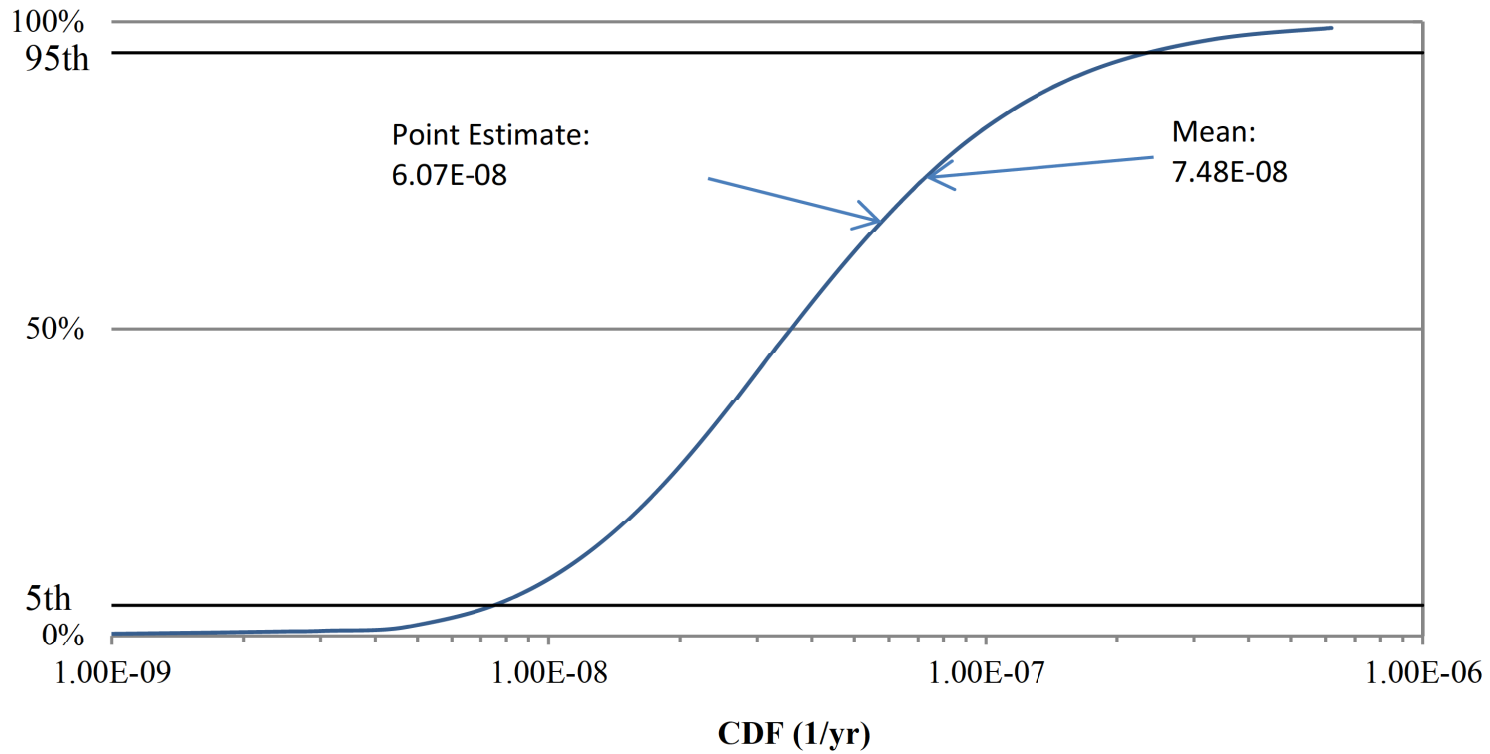
Figure 19.1-12—U.S. EPR Initiating Event Contributions – Level 1 Flooding



Flood CDF: $6.1\text{E-}08/\text{yr}$

REV 005
EPR6055 T2

Figure 19.1-13—U.S. EPR Level 1 Internal Flood Events Uncertainty Analysis Results – Cumulative Distribution for Flood Events CDF



REV 005
EPR6060 T2

Figure 19.1-14—U.S. EPR Level 2 Flood Events Uncertainty Analysis Results – Cumulative Distribution for Flood Events LRF

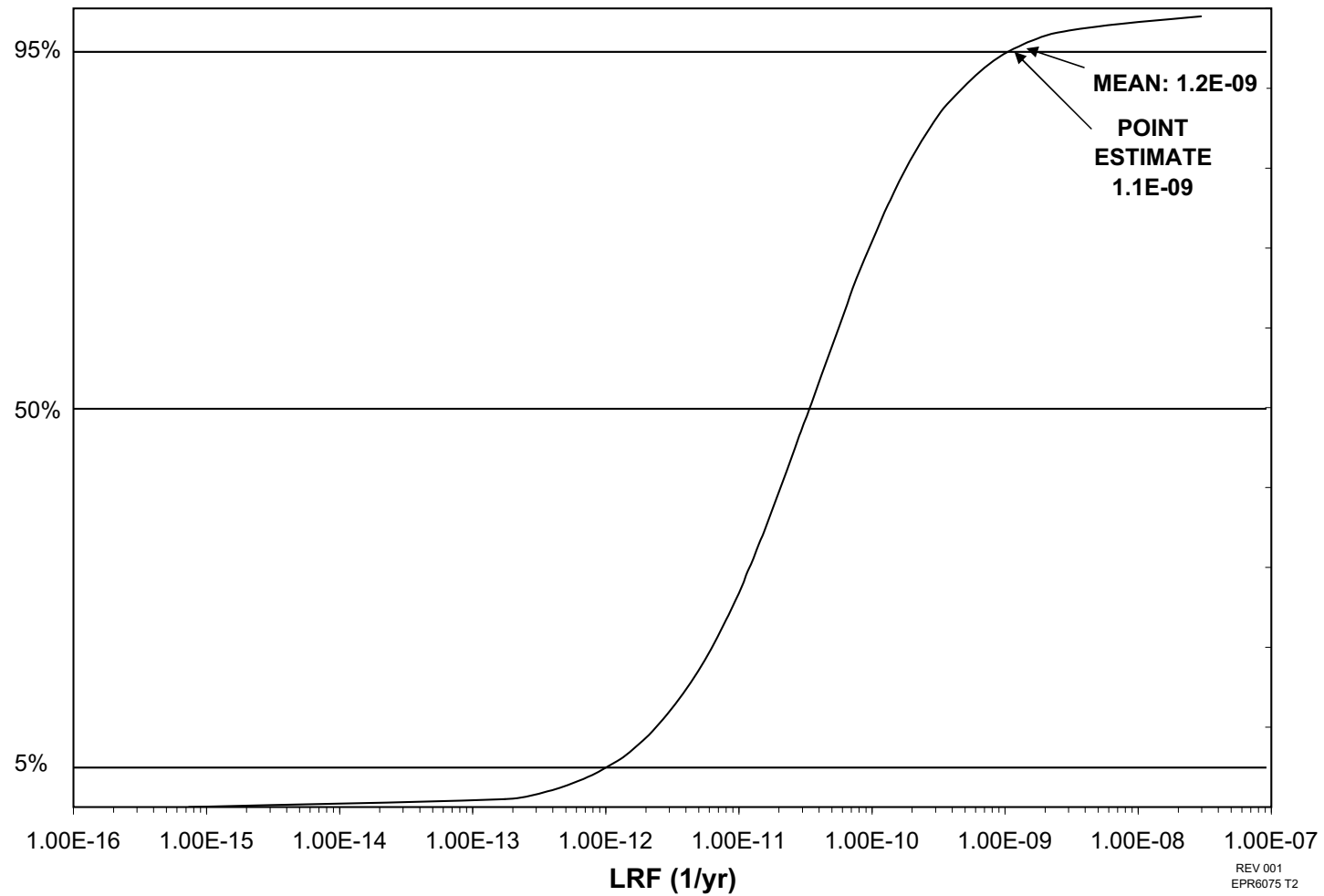
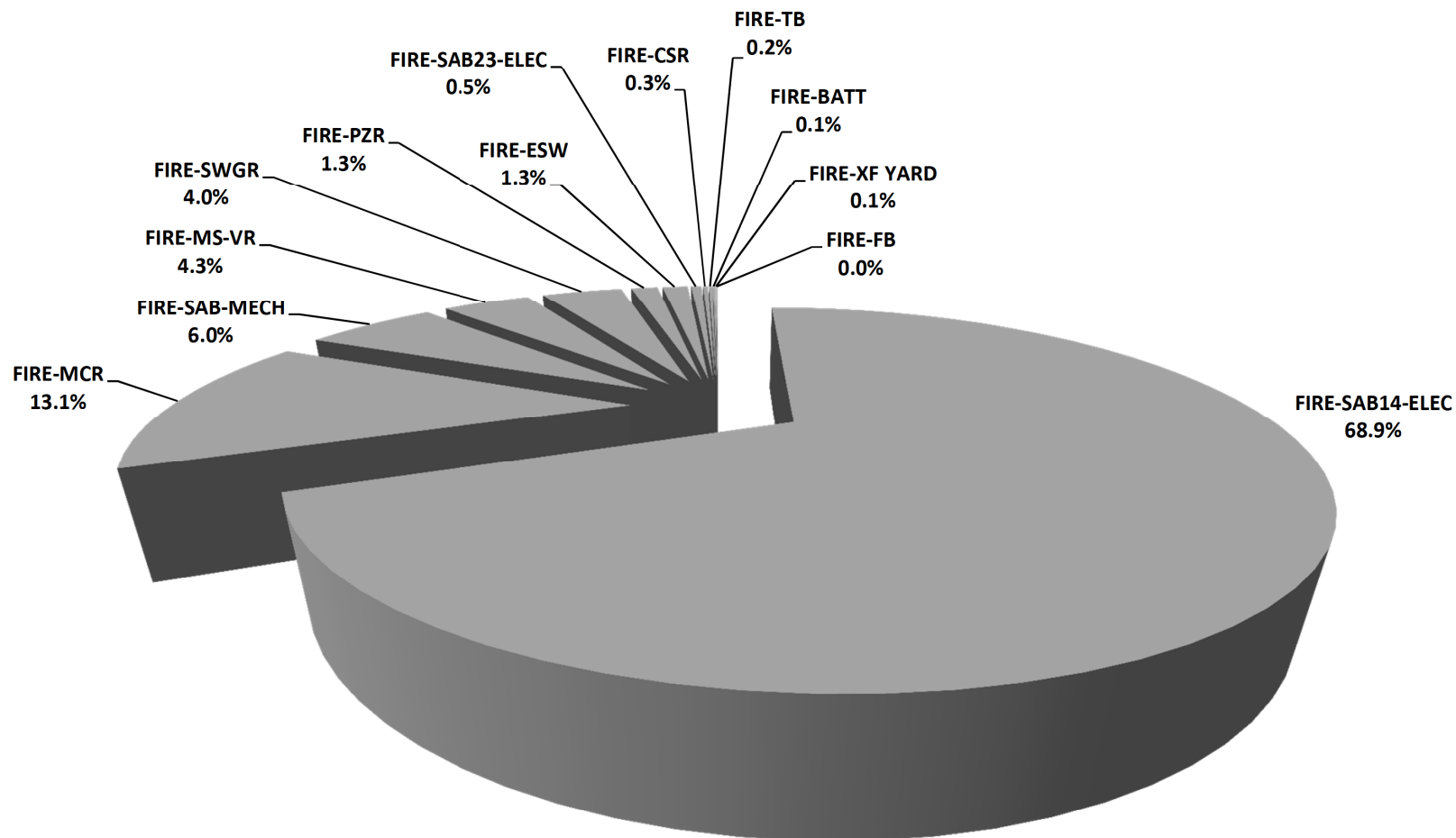


Figure 19.1-15—U.S. EPR Initiating Event Contributions – Level 1 Fire



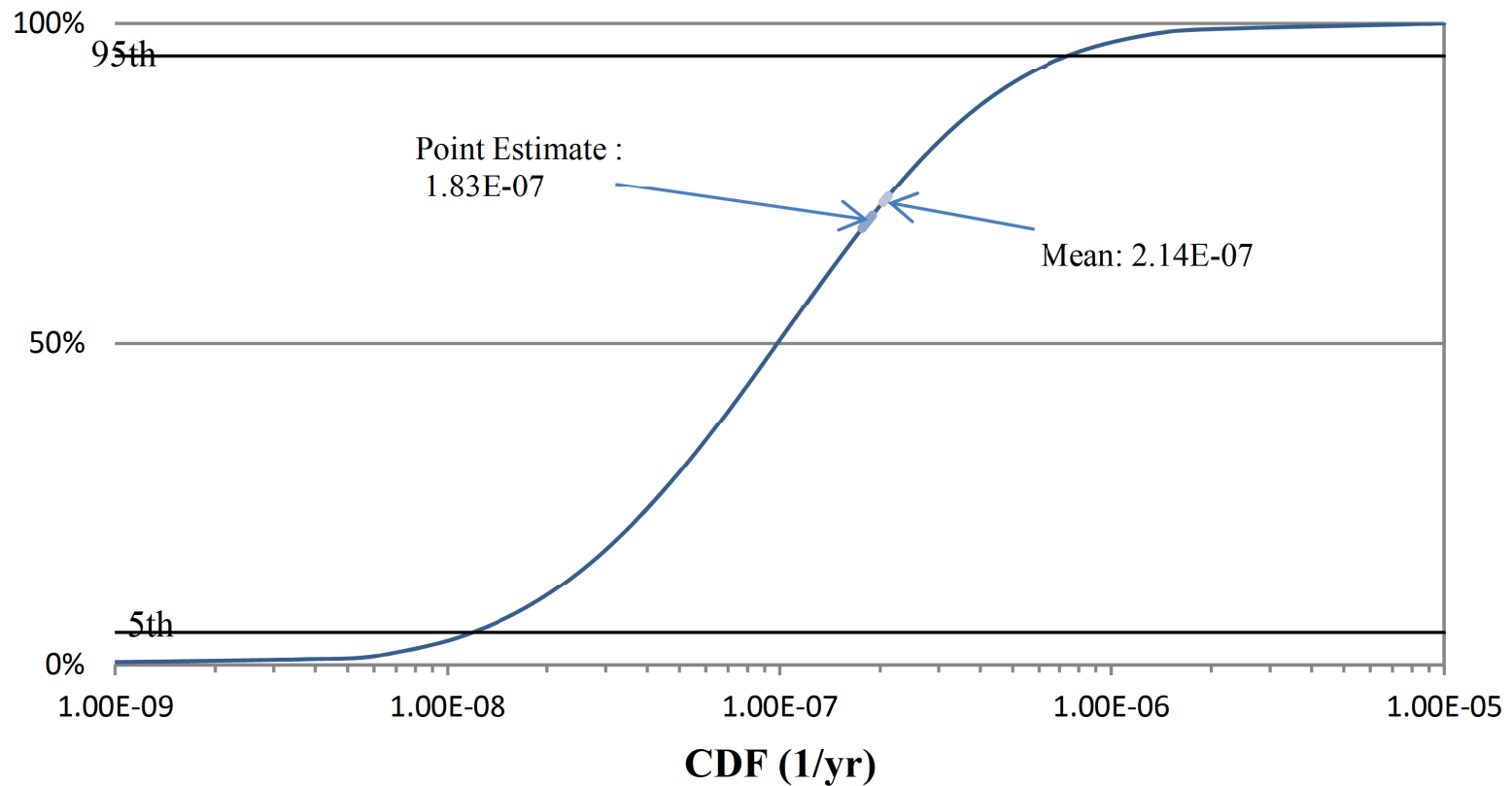
Fire CDF: 1.8E-07/yr

REV 005
EPR6065 T2

Figure 19.1-16—Cross-section of Safeguard Building 4 Illustrating the PRA Fire Areas

Figure 19.1-17—Cross-section of Safeguard Building 2 Illustrating the PRA Fire Areas

Figure 19.1-18—U.S. EPR Level 1 Internal Fire Events Uncertainty Analysis Results - Cumulative Distribution for Fire Events CDF



REV 005
EPR6070 T2

Figure 19.1-19—U.S. EPR Level 2 Fire Events Uncertainty Analysis Results - Cumulative Distribution Function for Fire Events LRF

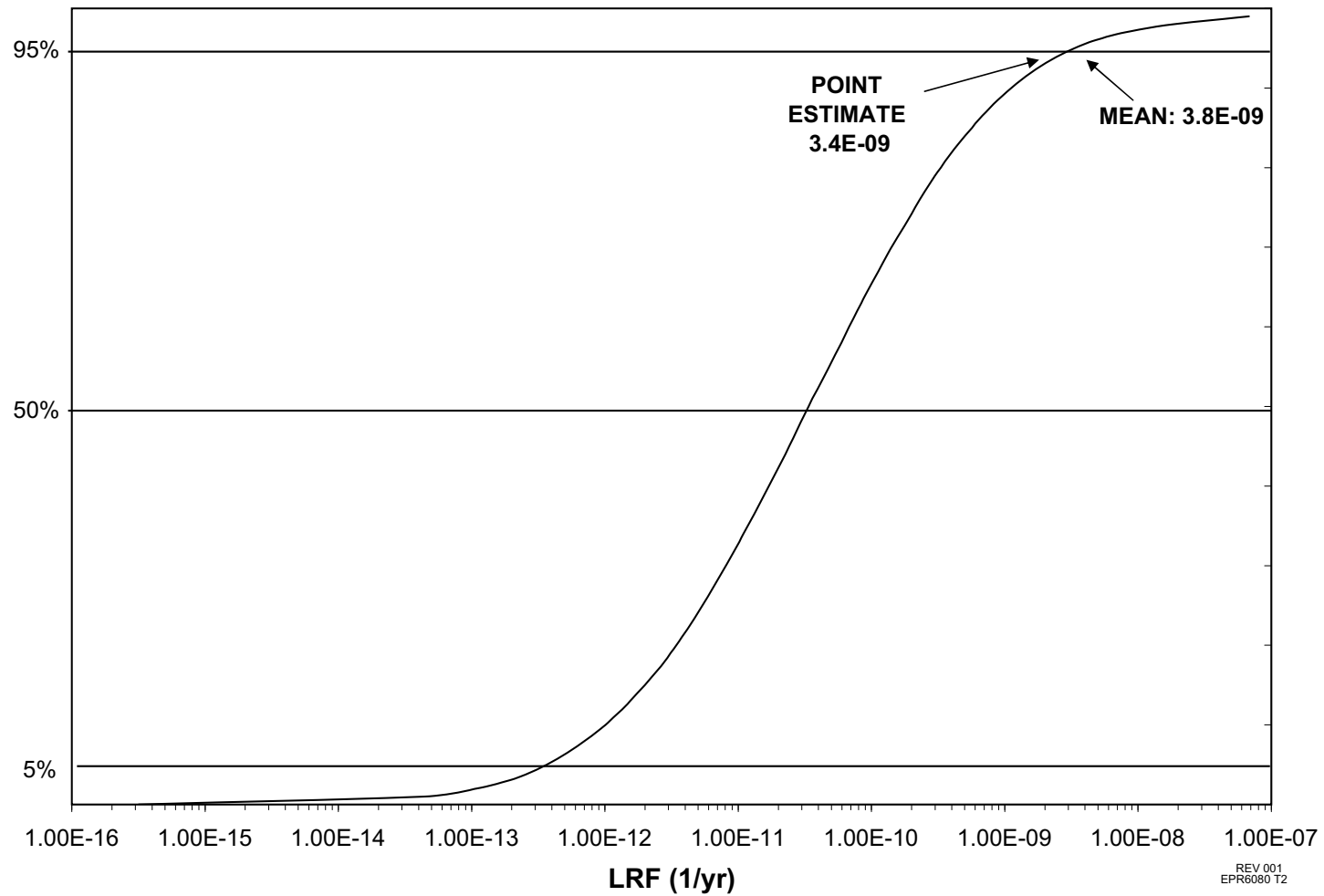


Figure 19.1-20—Time to TAF – Level 1 Shutdown

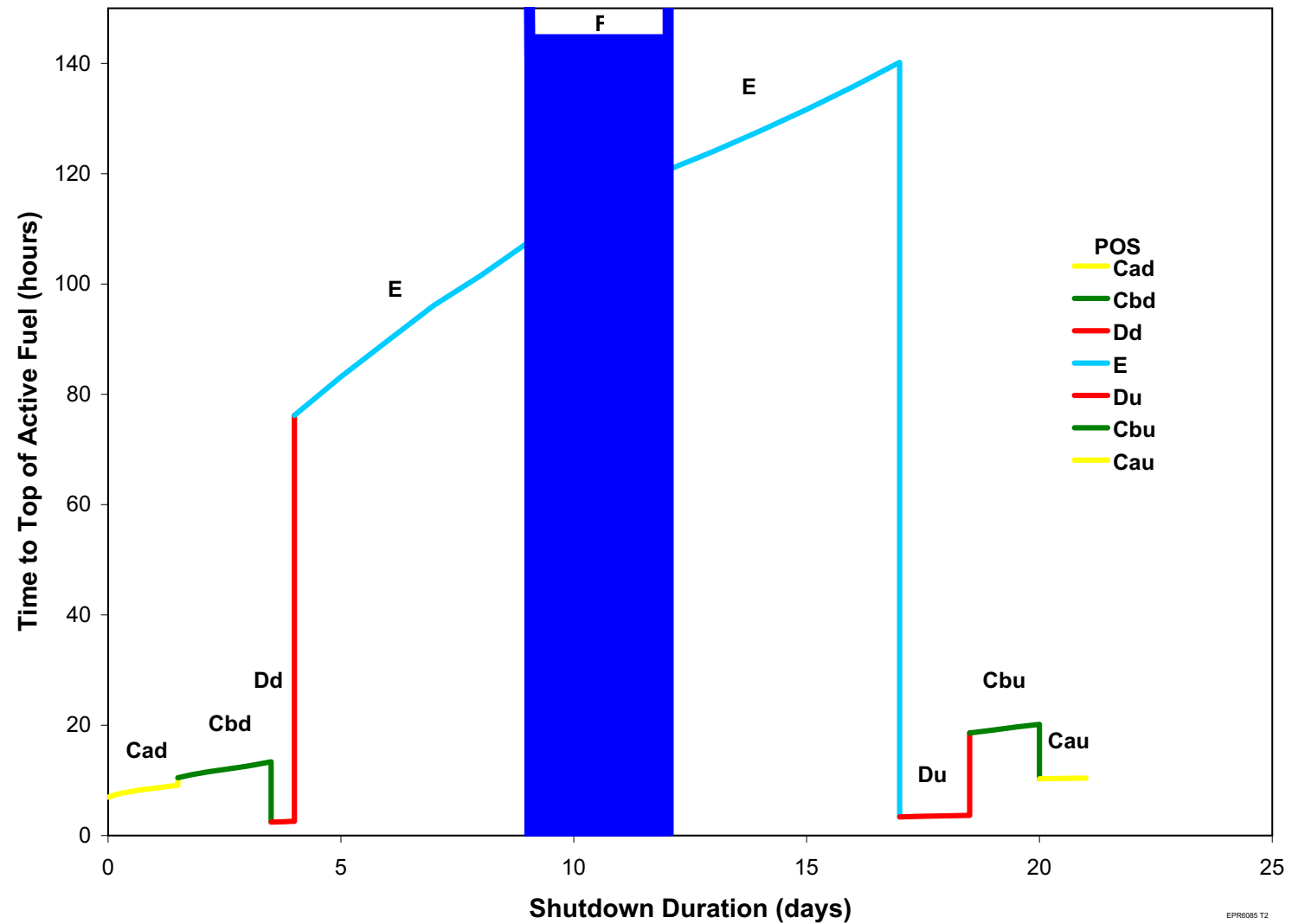


Figure 19.1-21—U.S. EPR Initiating Event Contributions – Level 1 Shutdown

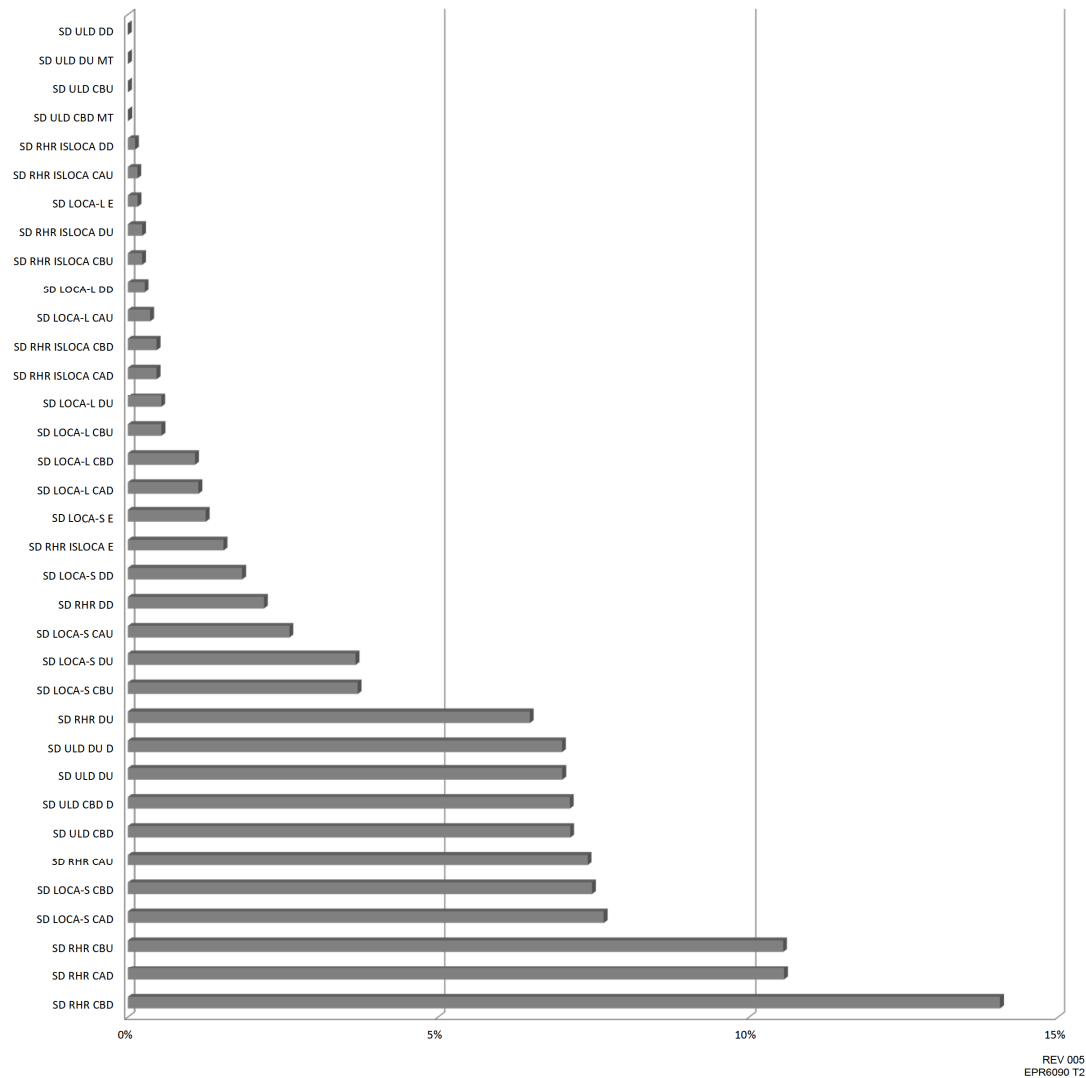
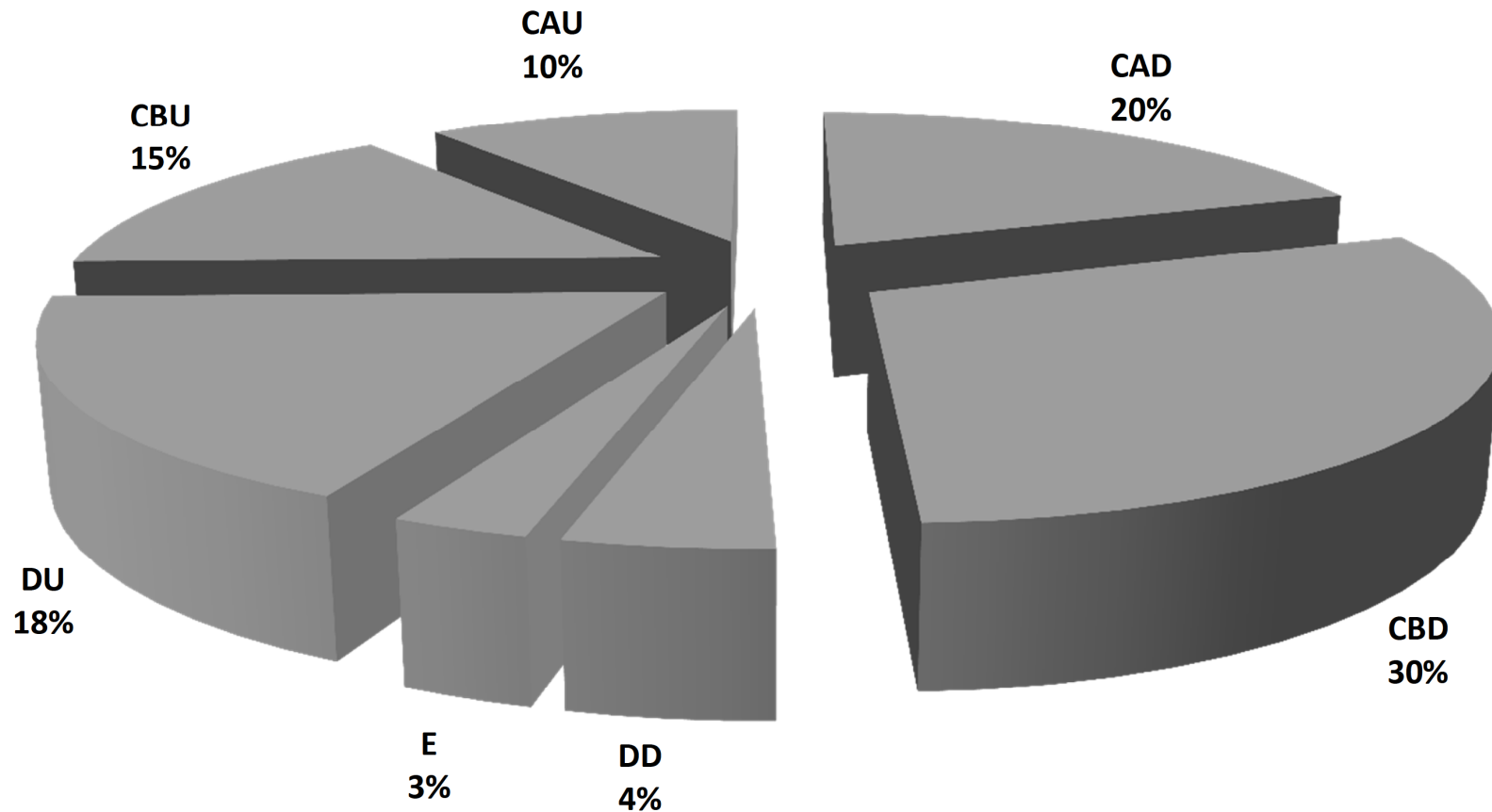


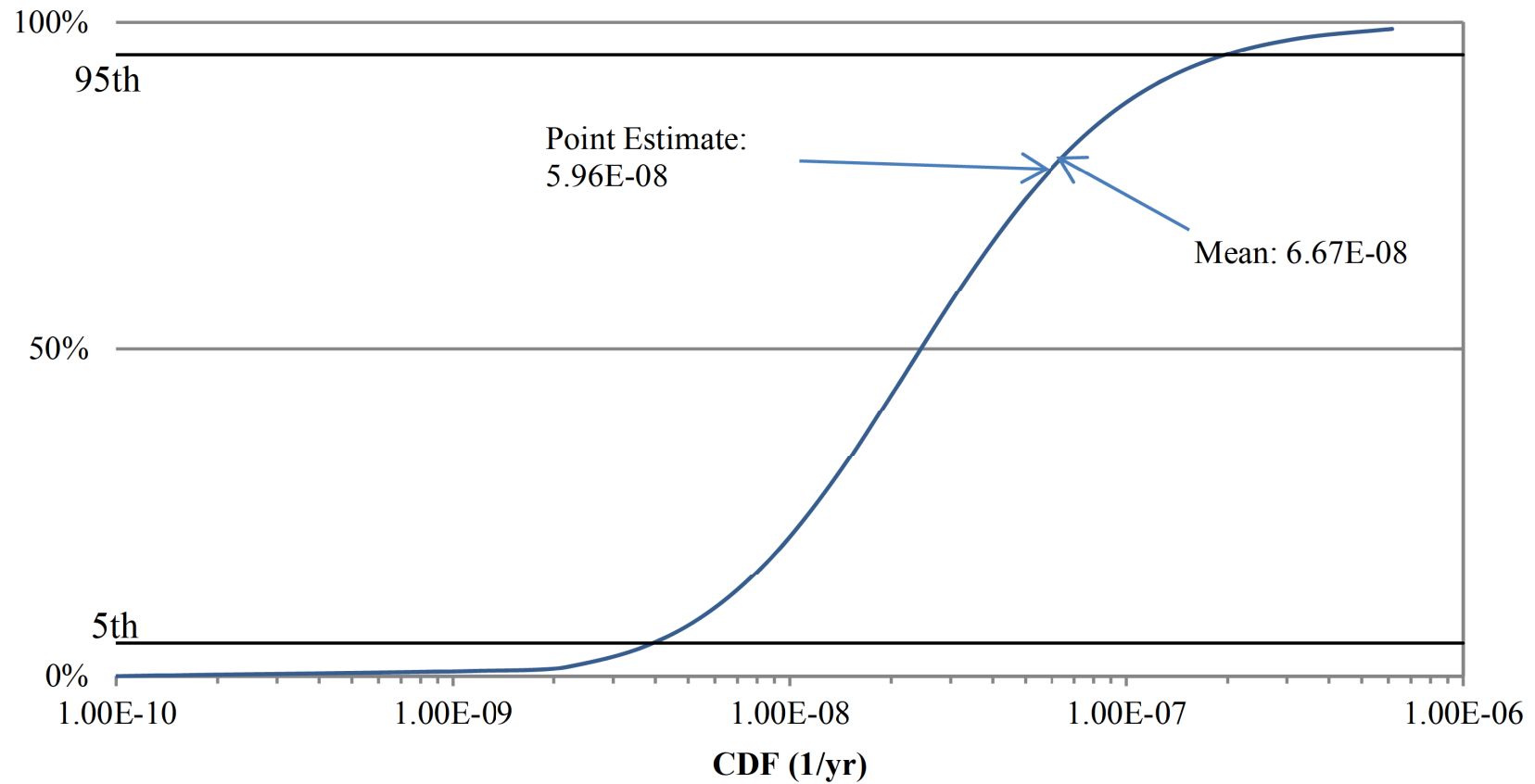
Figure 19.1-22—U.S. EPR Shutdown State Contribution – Level 1 Shutdown



Shutdown CDF = 6.0E-08/yr

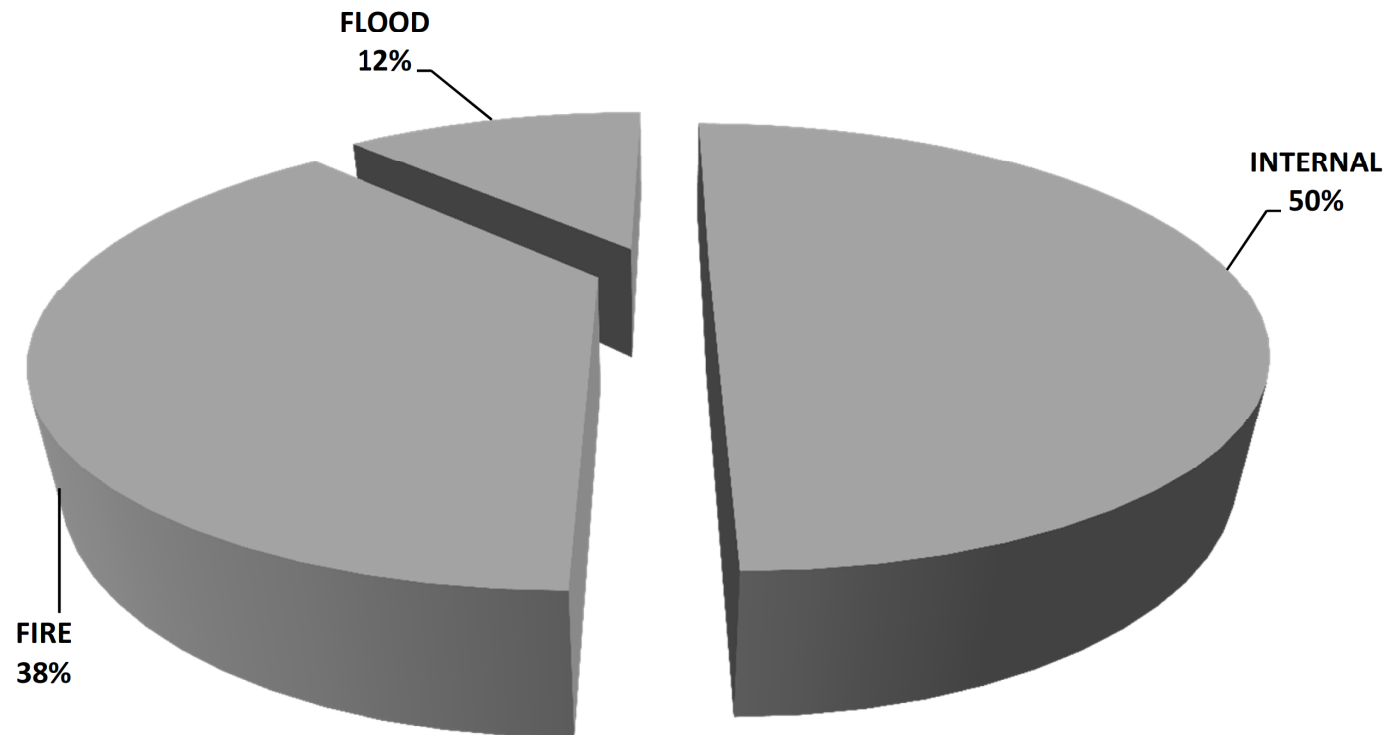
REV 005
EPR6095 T2

Figure 19.1-23—U.S. EPR Level 1 Shutdown Events Uncertainty Analysis Results - Cumulative Distribution for Low Power and Shutdown CDF



REV 005
EPR6100 T2

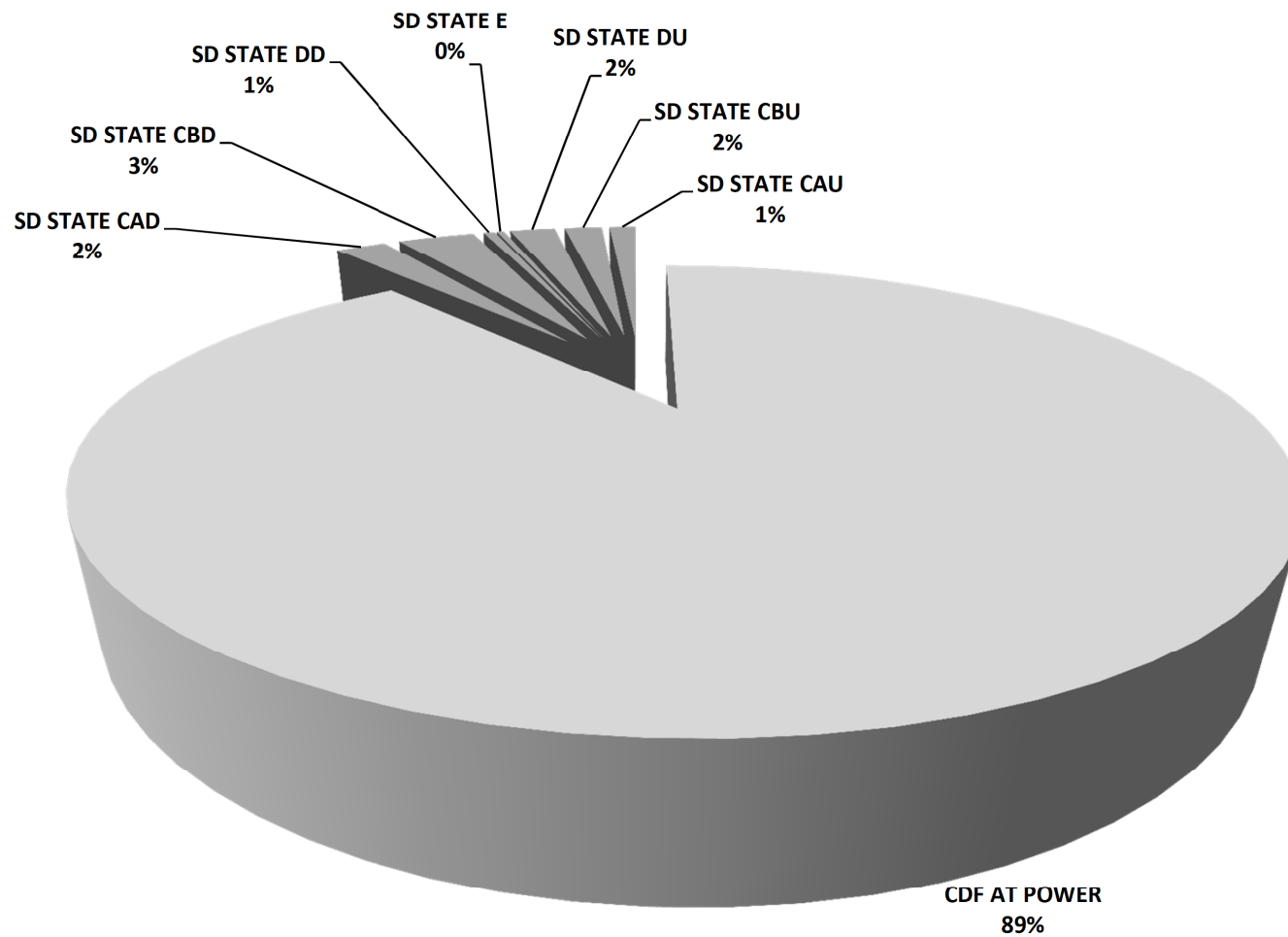
Figure 19.1-24—U.S. EPR Level 1 Initiating Event Contributions to Total CDF at Power



AT POWER TOTAL CDF = $4.9\text{E-}07$ / yr

REV 005
EPR6105 T2

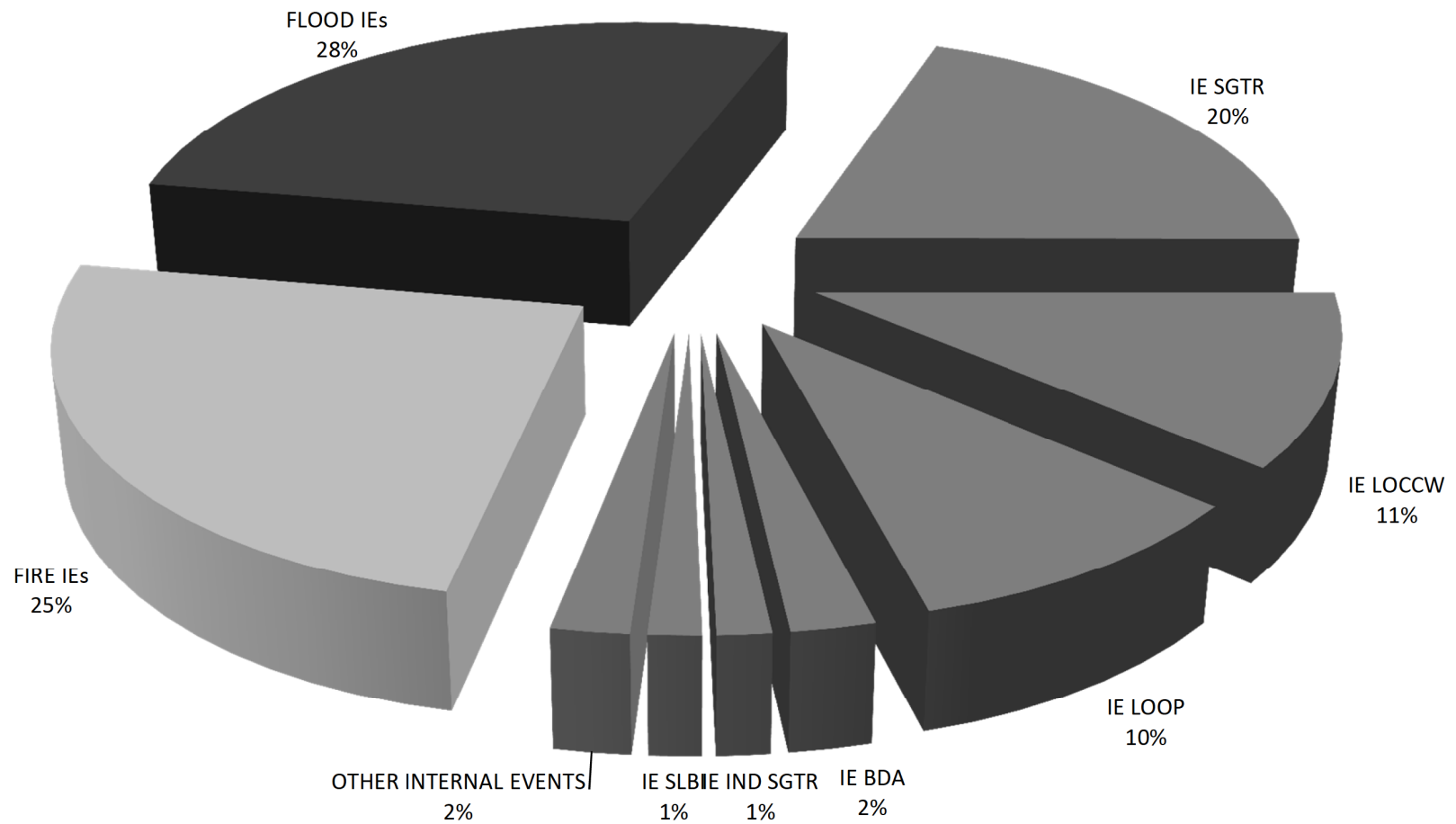
Figure 19.1-25—U.S. EPR POS Contributions to Total CDF



Total CDF = $5.5\text{E-}07$ / yr

REV 005
EPR6110 T2

Figure 19.1-26—U.S. EPR Level 2 Initiating Event Contribution to Total At-Power LRF



Total At-Power LRF = 3.01E-08

REV 005
EPR6130 T2

Figure 19.1-27—U.S. EPR Level 2 Release Category Contribution to Total At-Power LRF

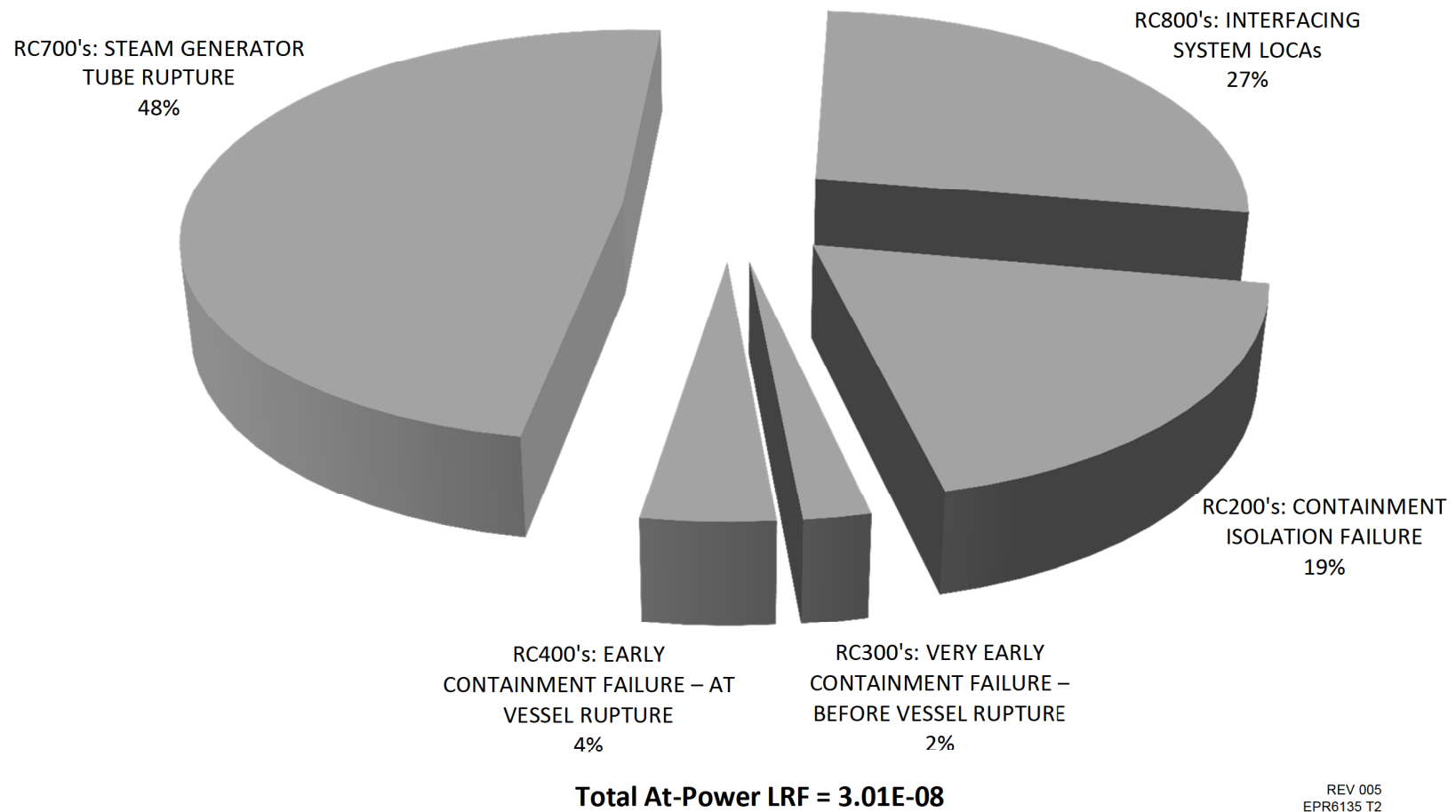


Figure 19.1-28—Deleted

Figure 19.1-29—U.S. EPR Level 1 Internal Events Total Uncertainty Analysis Results - Cumulative Distribution for All Internal, Fire and Flood Events CDF

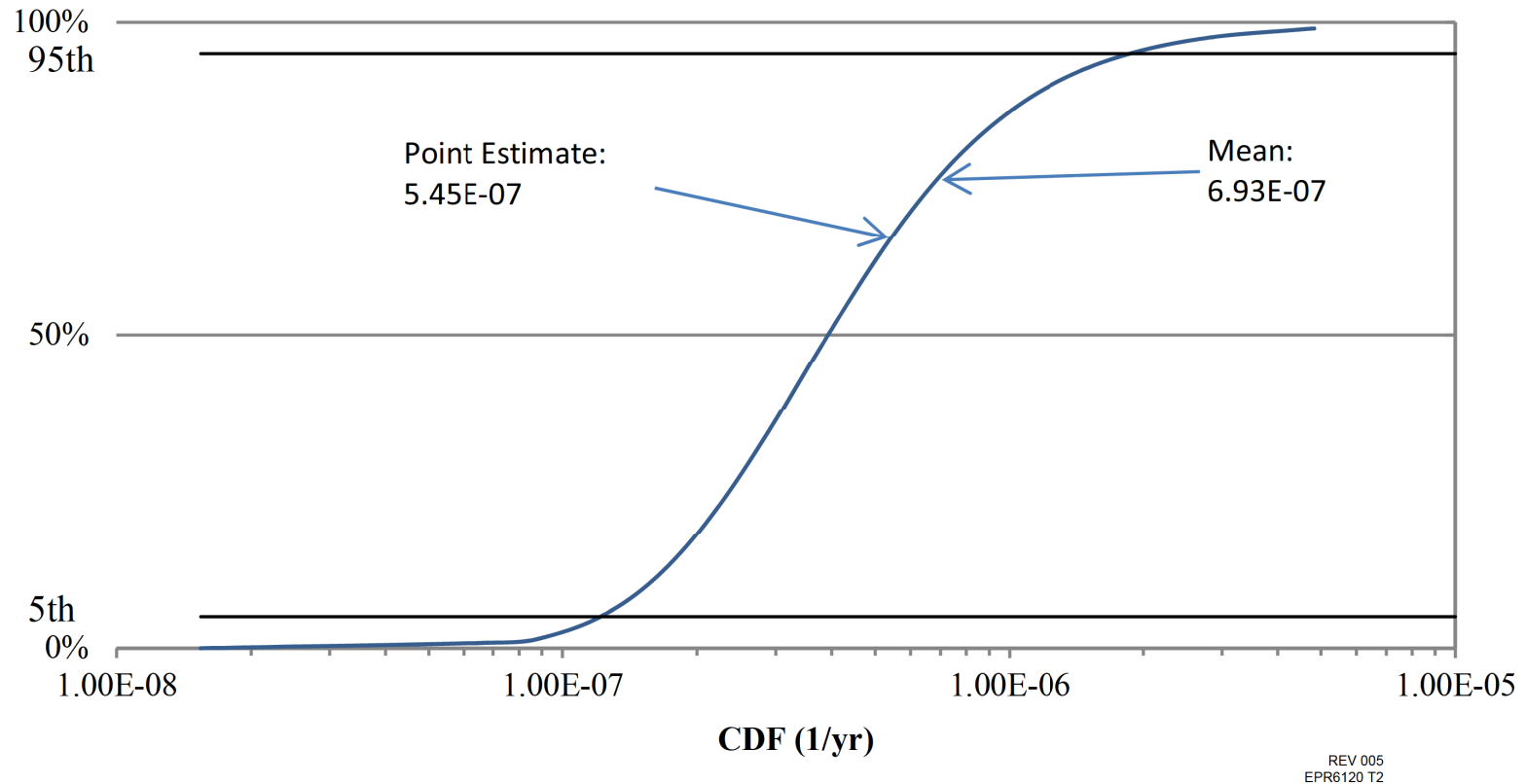


Figure 19.1-30—U.S. EPR Level 2 Internal Events Total Uncertainty Analysis Results - Cumulative Distribution for All Internal, Fire and Flood Events LRF

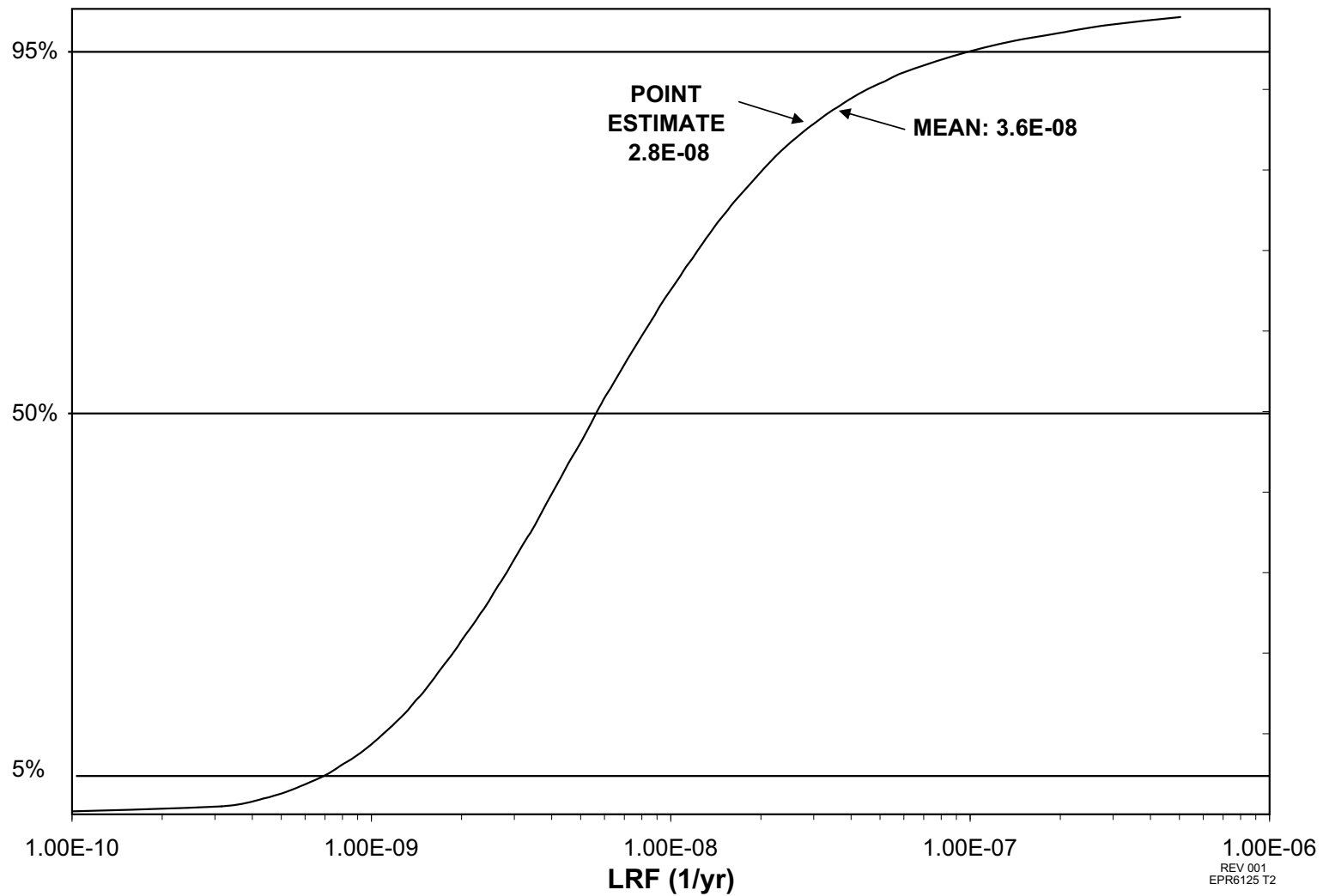
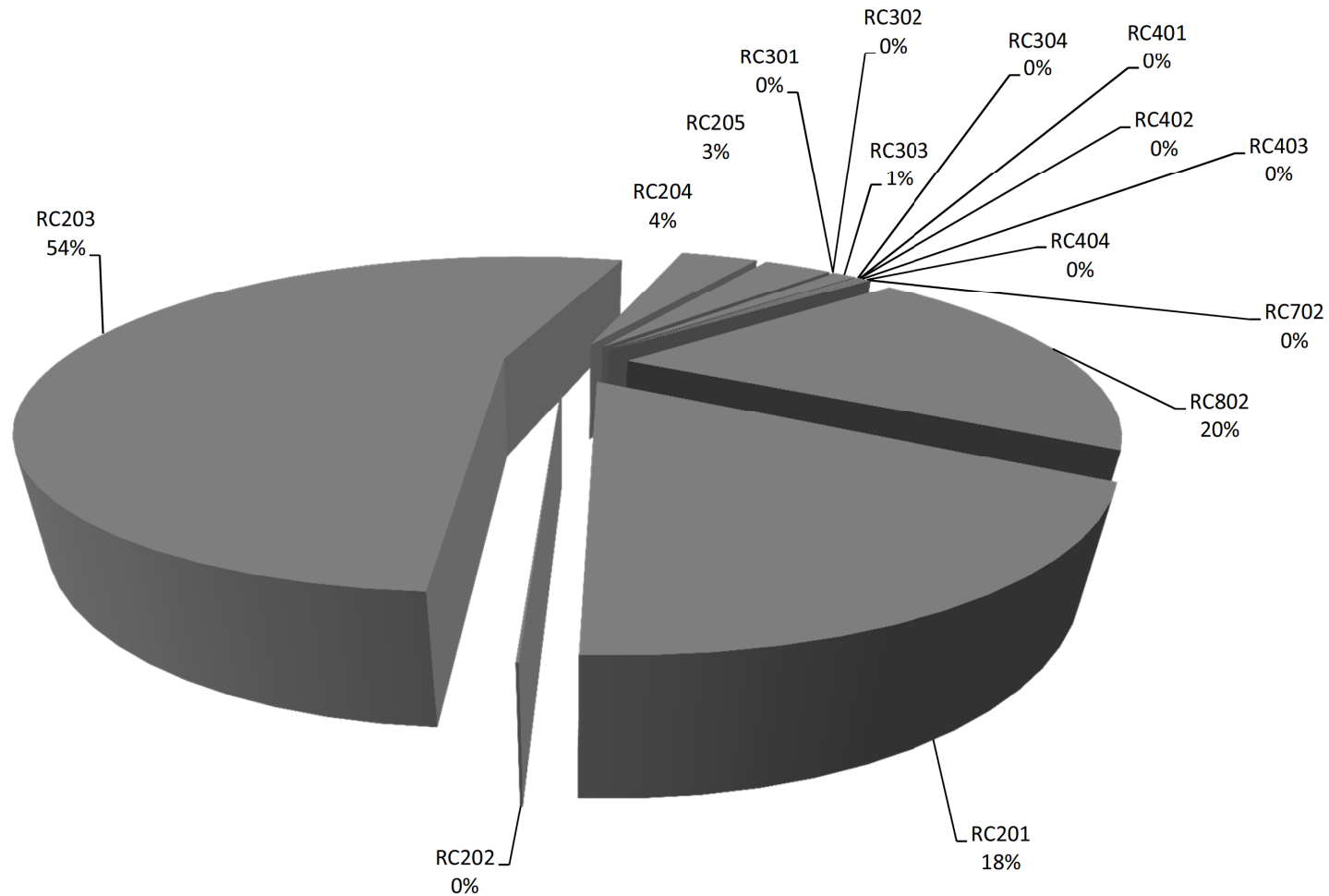


Figure 19.1-31—Deleted

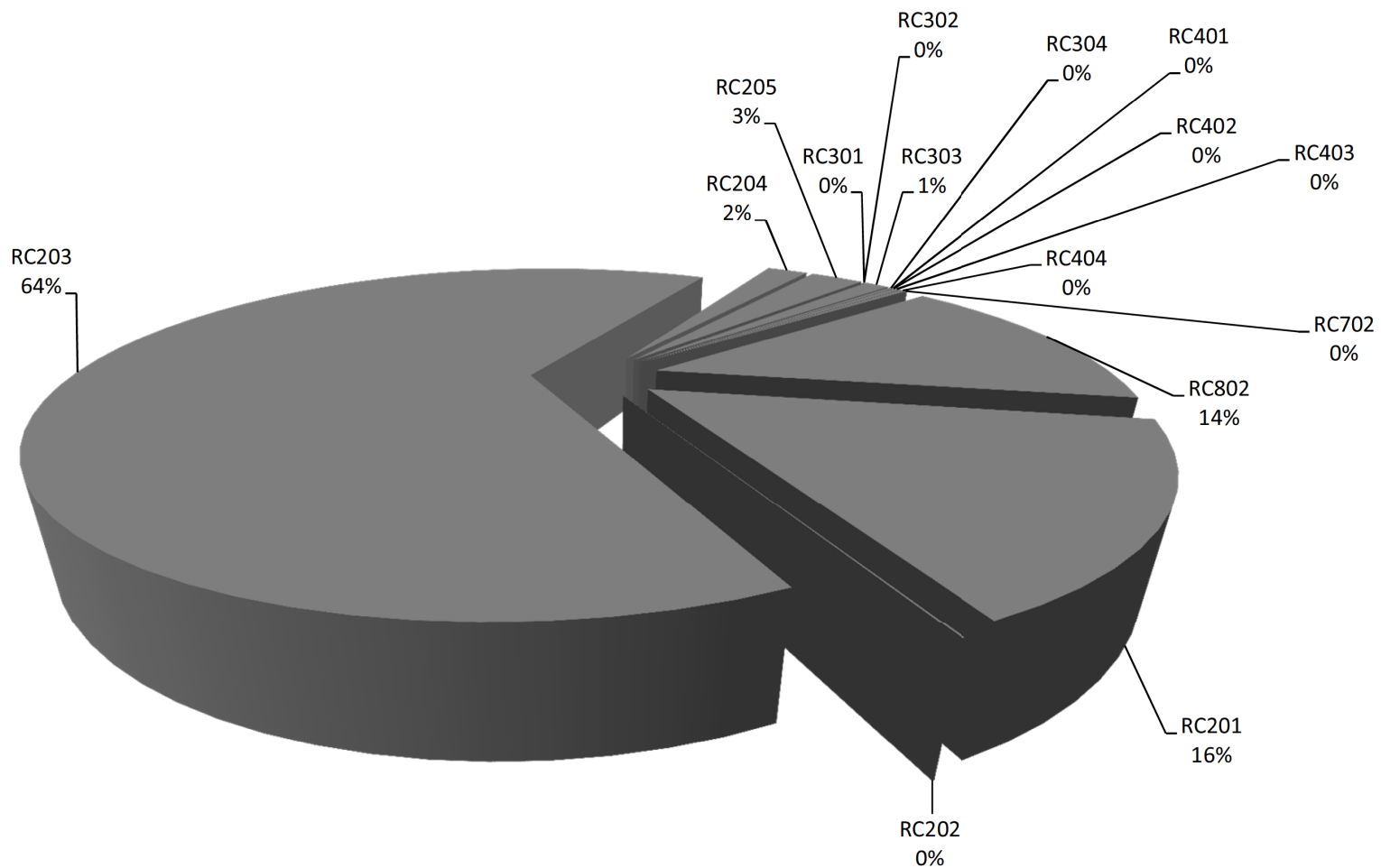
Figure 19.1-32—POS CA Release Category Contributions to Shutdown LRF



POS CA Shutdown LRF = 1.9 E-09/yr

REV 005
EPR6145 T2

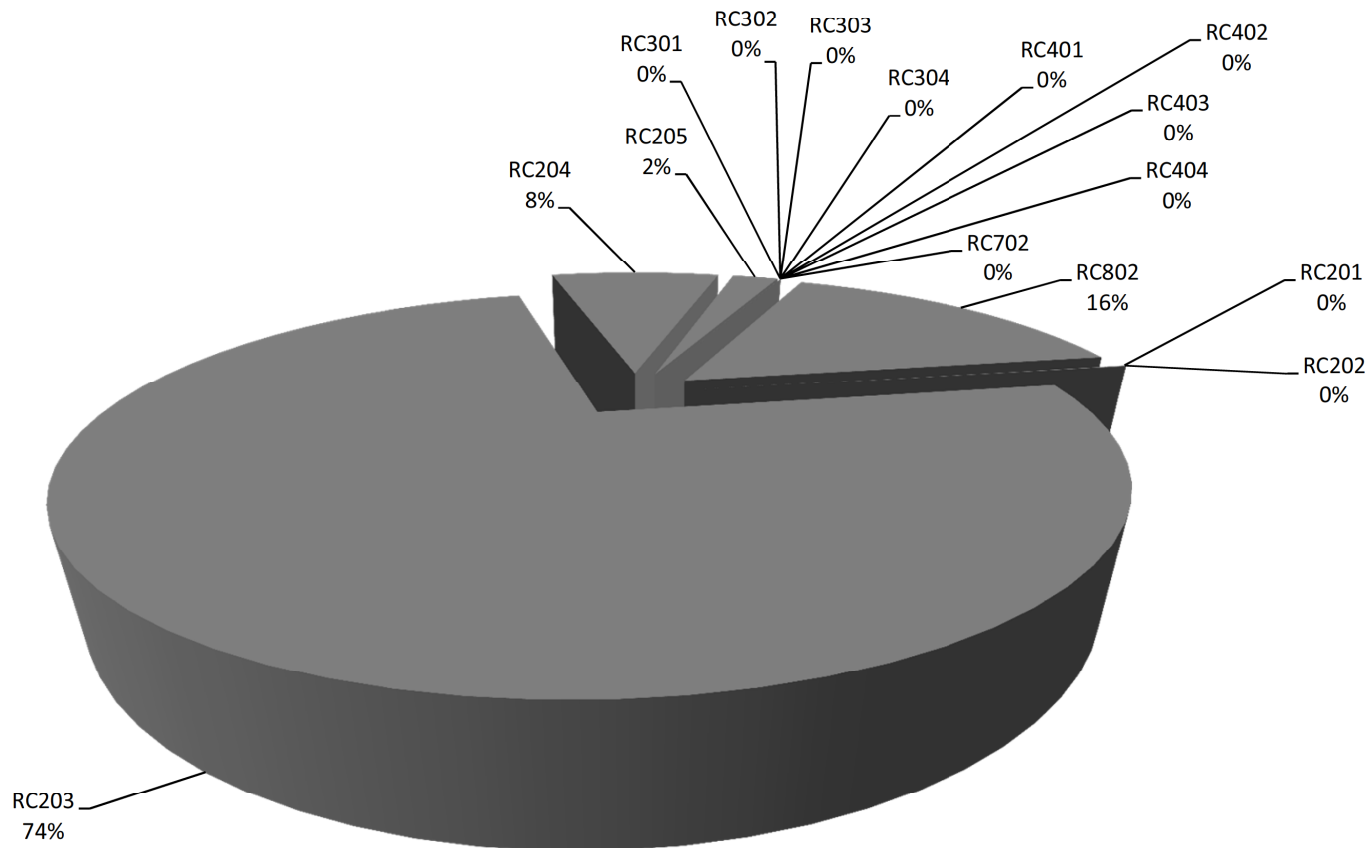
Figure 19.1-33—POS CB Release Category Contributions to Shutdown LRF



POS CB Shutdown LRF = 3.0 E-09/yr

REV 005
EPR6150 T2

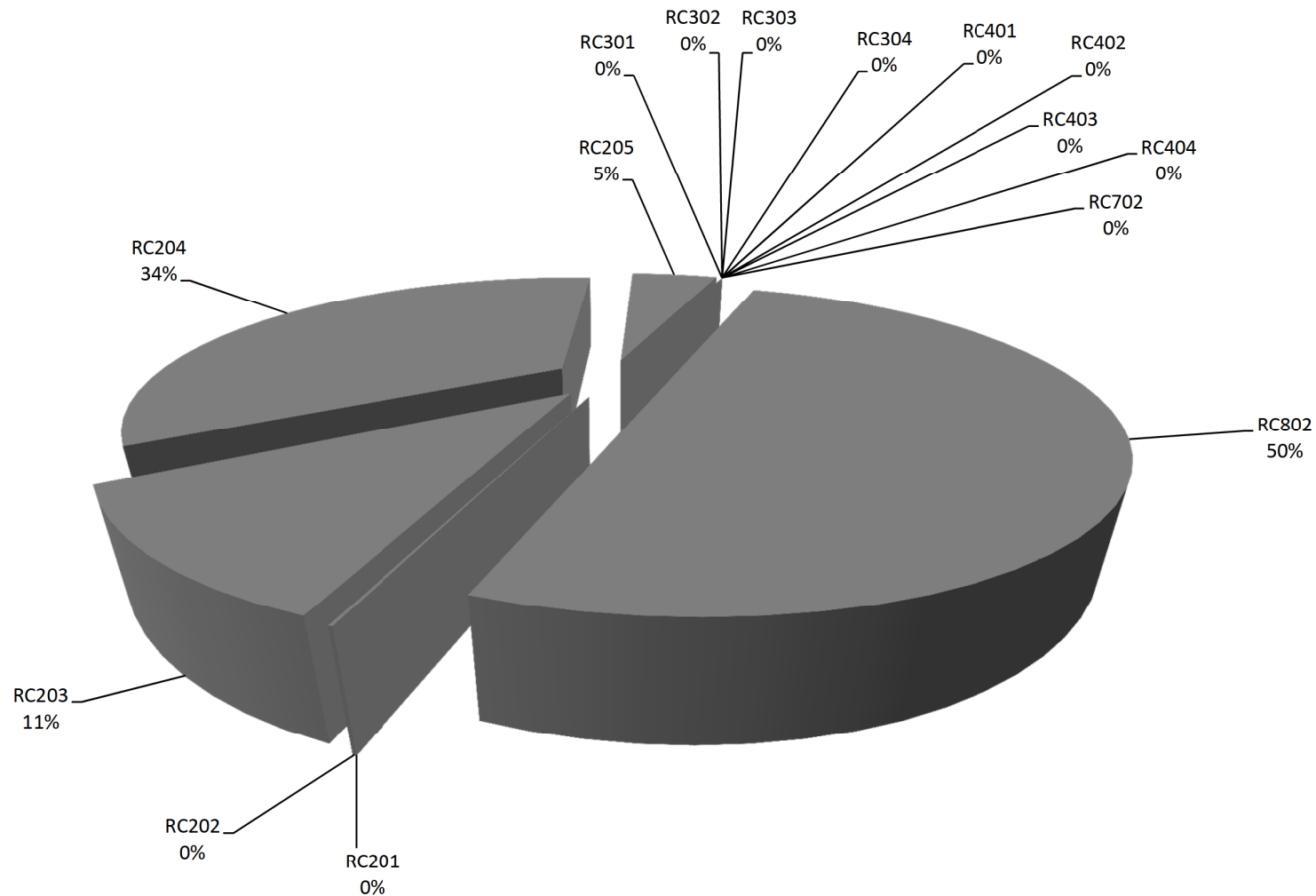
Figure 19.1-34—POS D Release Category Contributions to Shutdown LRF



POS D Shutdown LRF = $1.3 \text{ E-}09/\text{yr}$

REV 005
EPR6155 T2

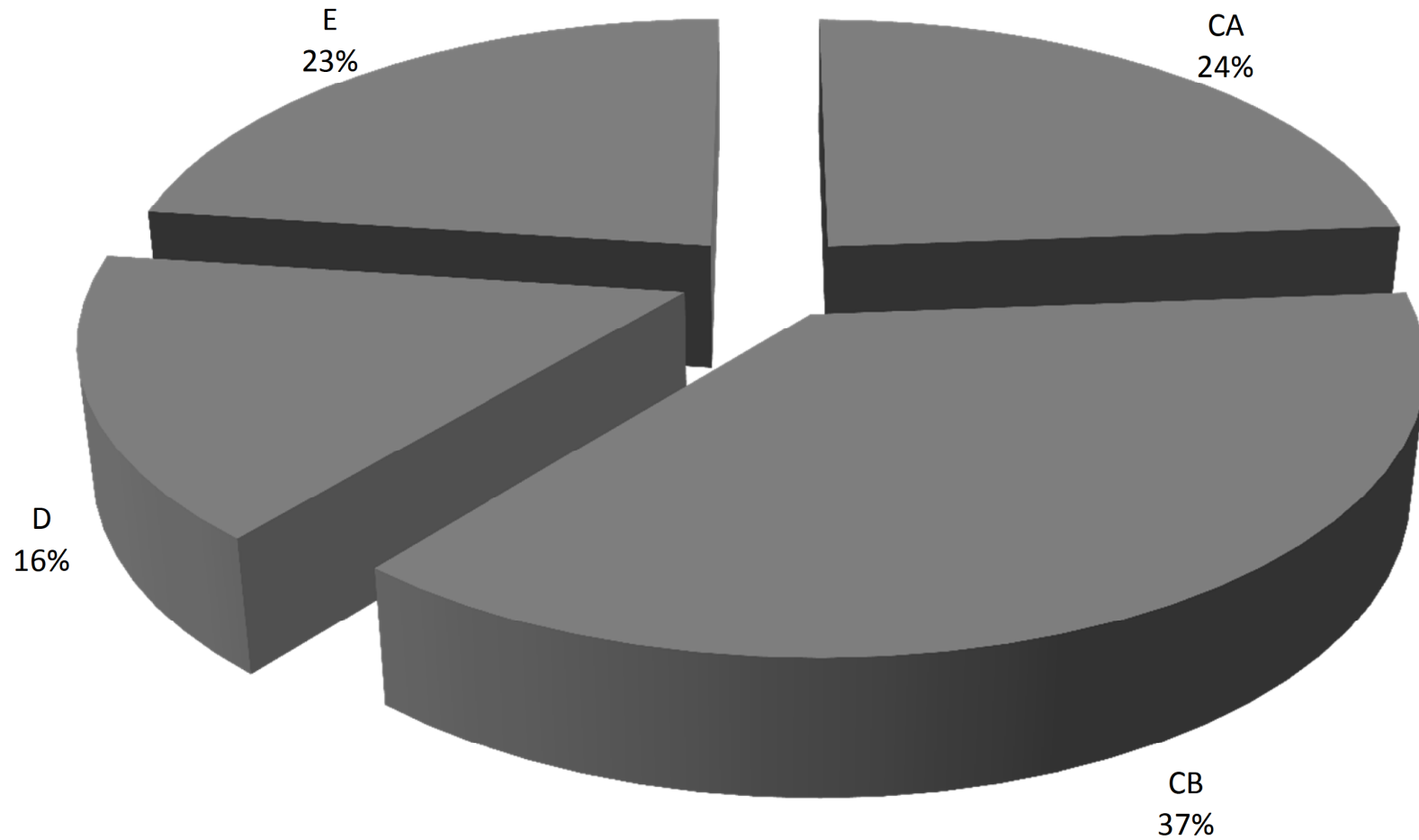
Figure 19.1-35—POS E Release Category Contributions to Shutdown LRF



POS E Shutdown LRF = 1.8 E-09/yr

REV 005
EPR6160 T2

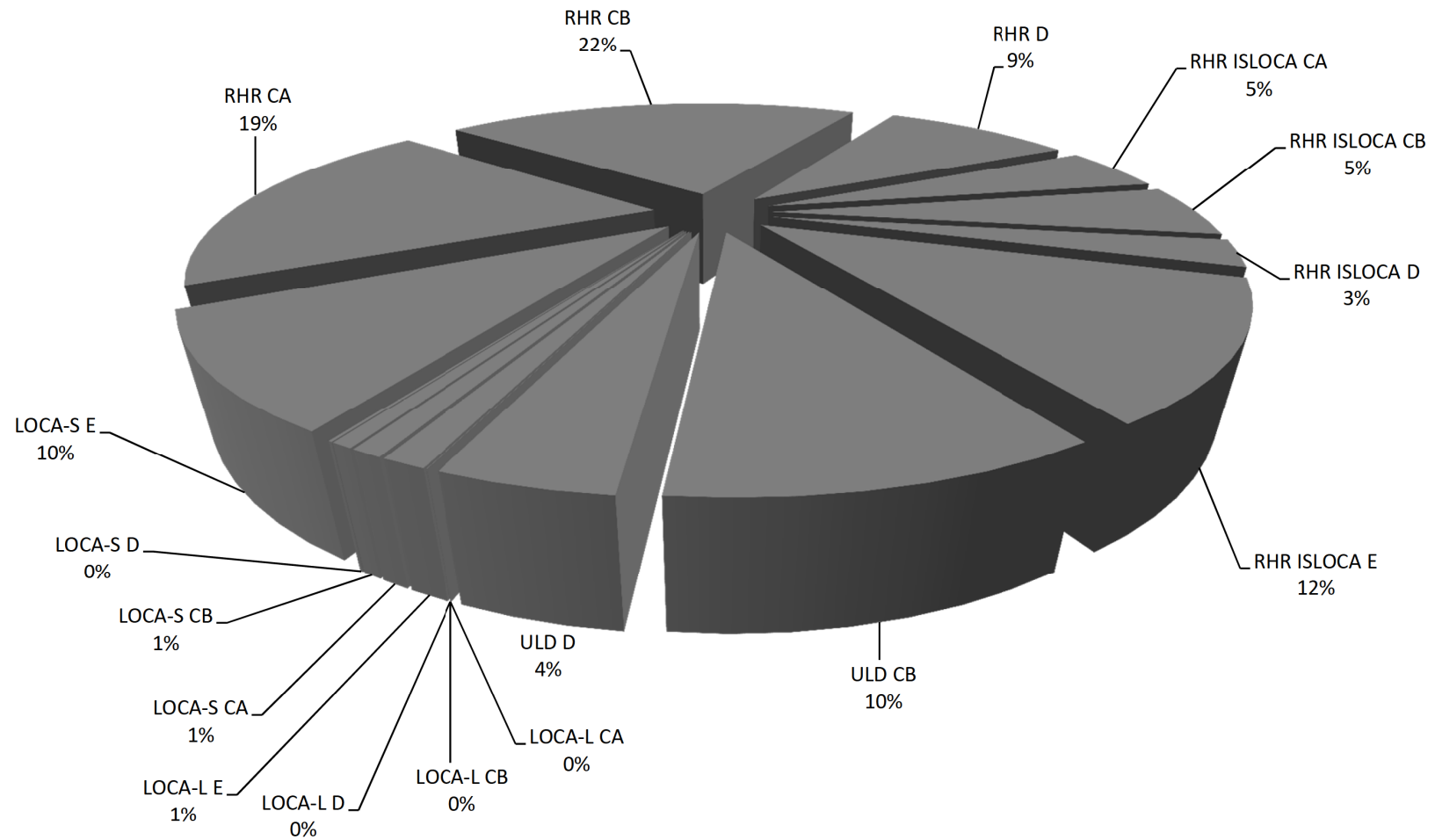
Figure 19.1-36—POS Contributions to Shutdown LRF



Shutdown LRF = $7.9 \text{ E-}09/\text{yr}$

REV 005
EPR6165 T2

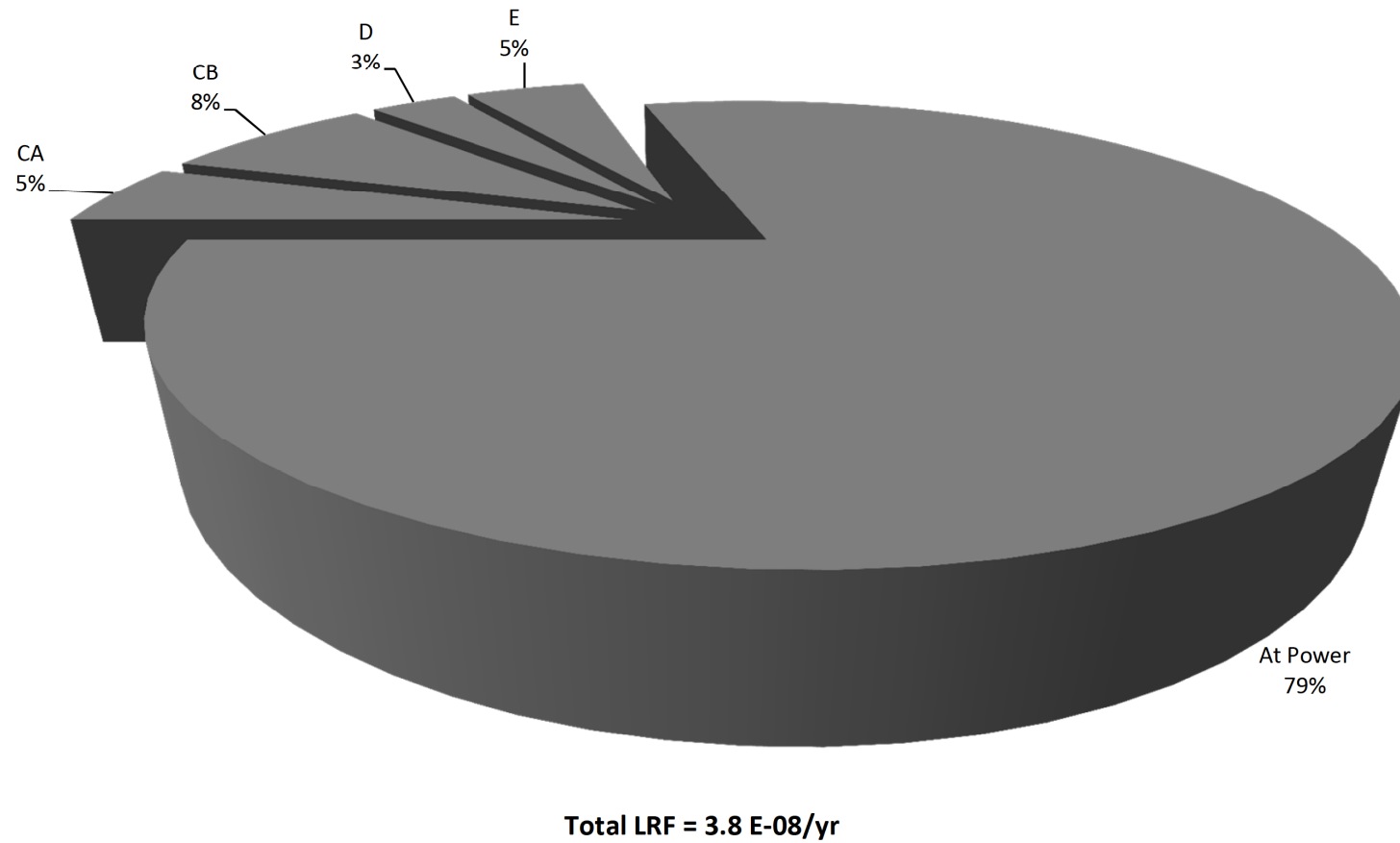
Figure 19.1-37—Initiating Events Contributions to Shutdown LRF



Shutdown LRF = 7.9 E-09/yr

REV 005
EPR6170 T2

Figure 19.1-38—POS Contributions to Total LRF



REV 005
EPR6175 T2

[Next File](#)