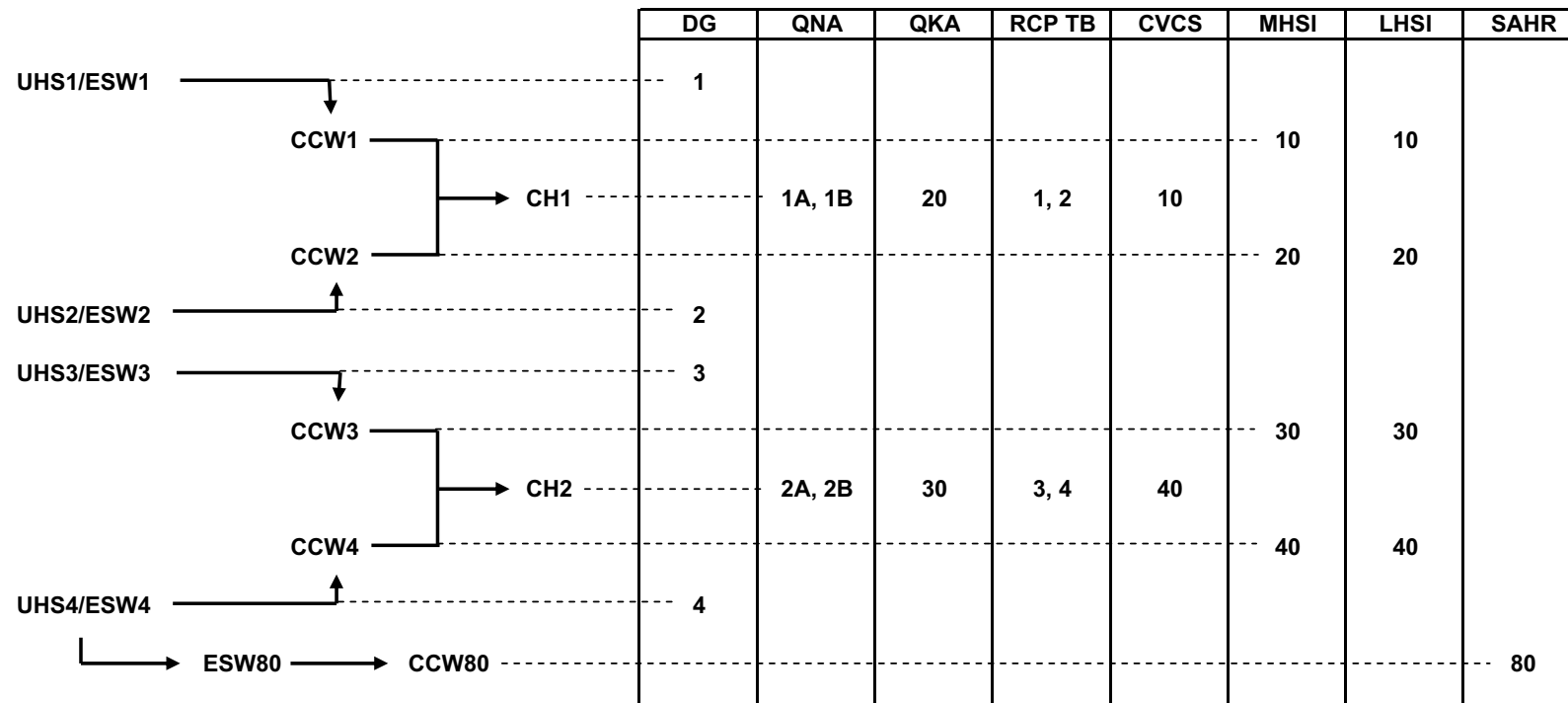
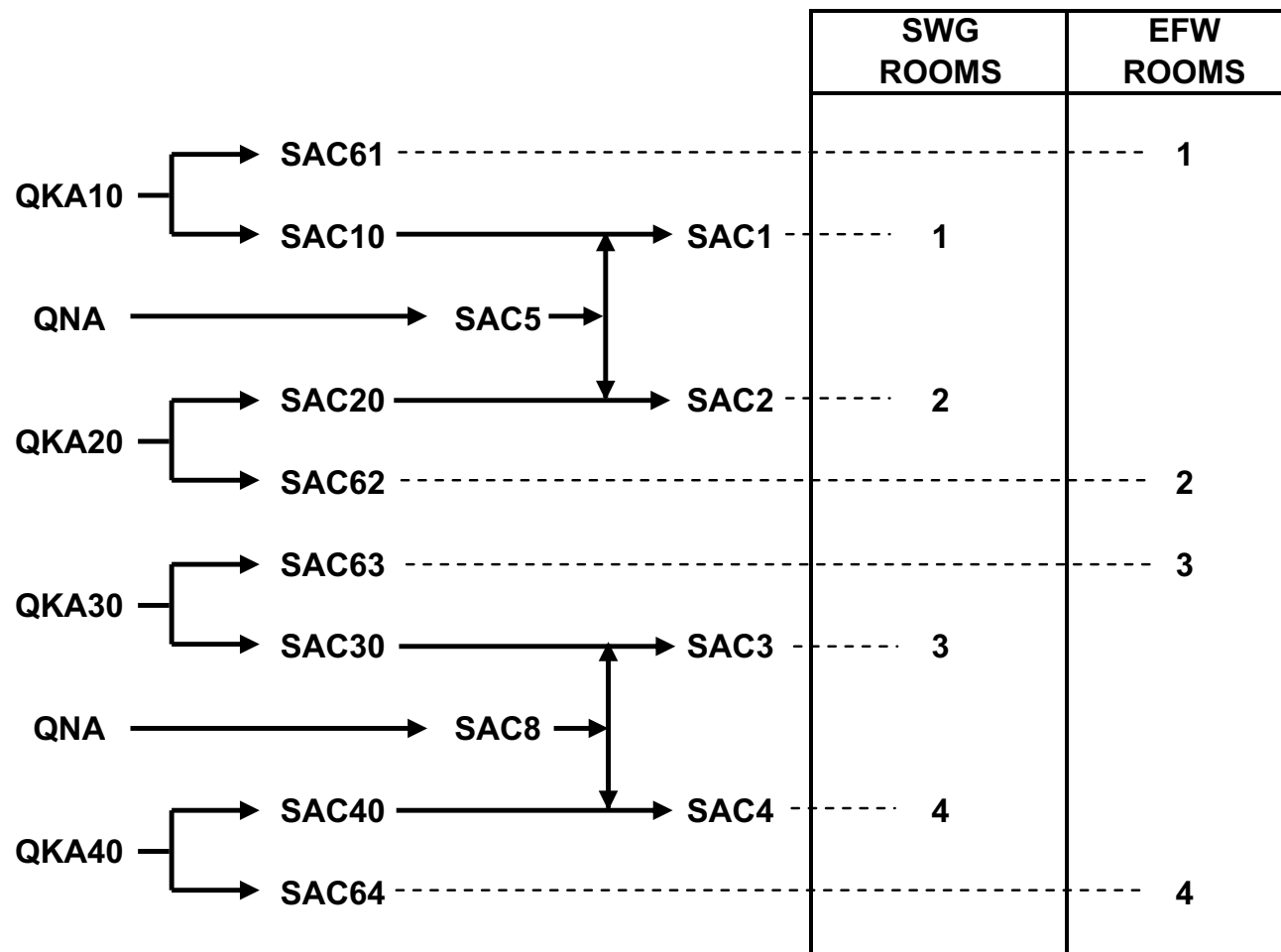


Figure 19.1-1—Cooling Water Dependencies Modeled in the U.S. EPR PRA



EPR6000 T2

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



EPR6005 T2

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

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

EPR6010 T2

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

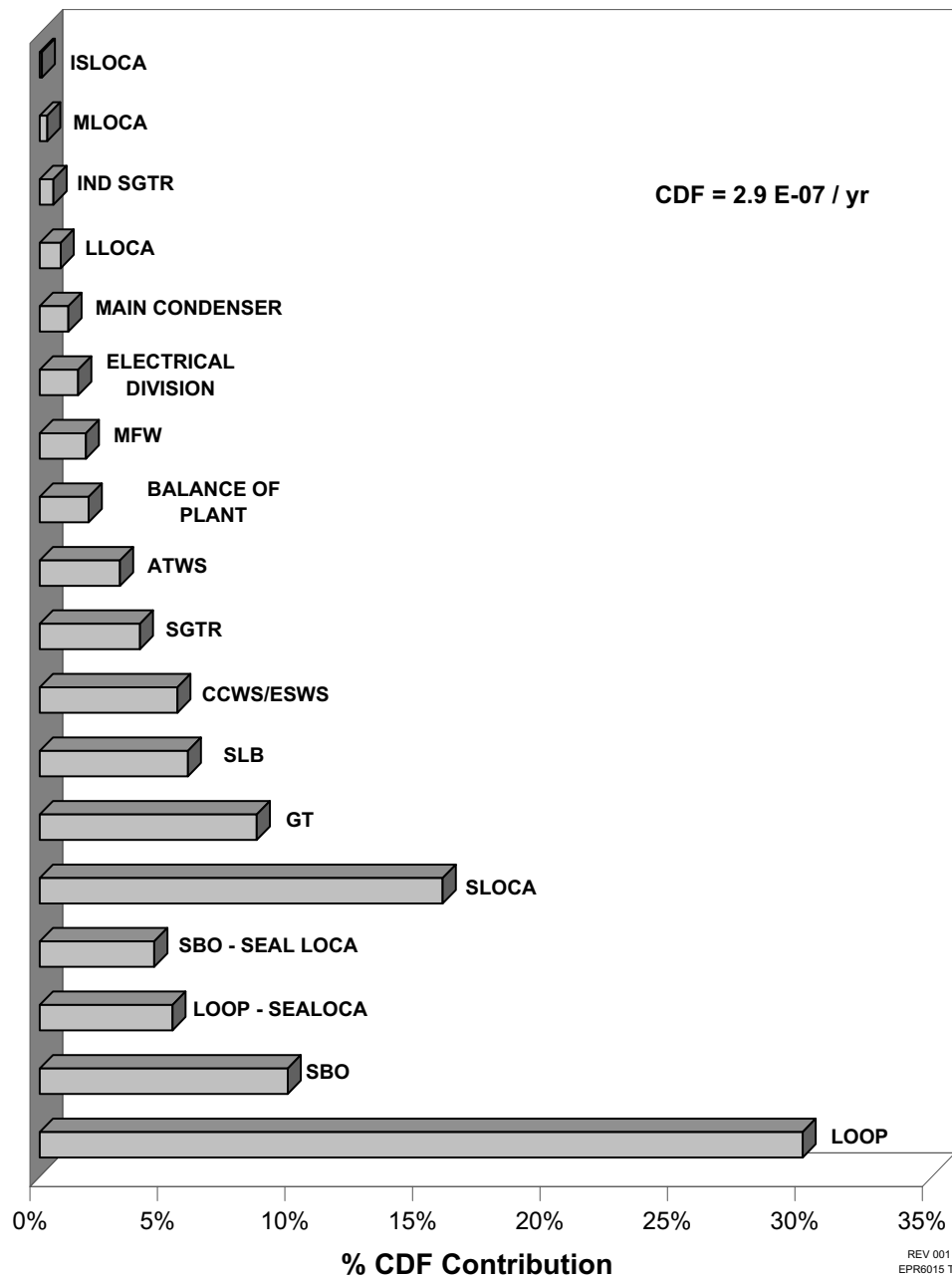


Figure 19.1-5—U.S. EPR Level 1 Internal Events Uncertainty Analysis Results - Cumulative Distributions for Internal Events CDF

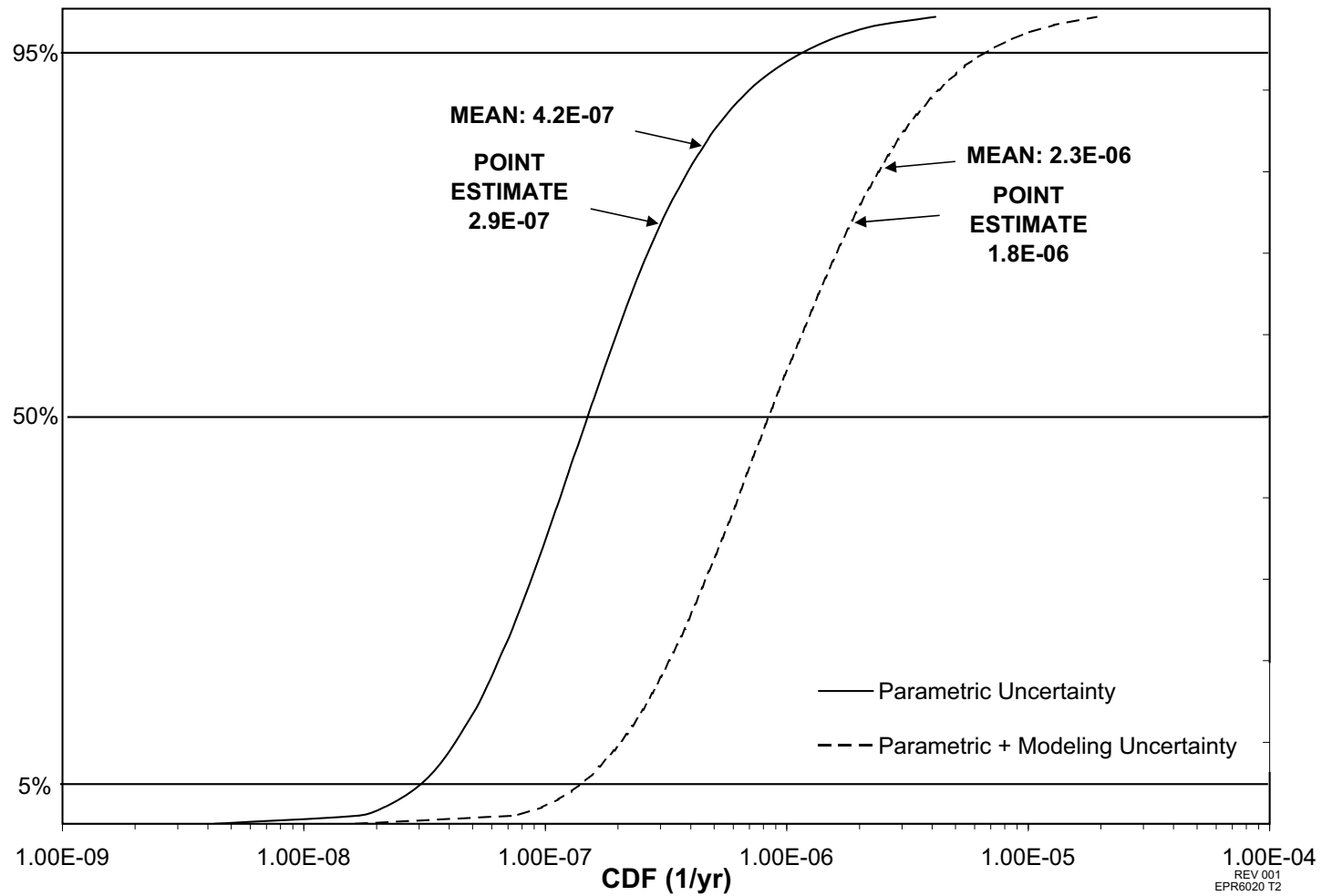
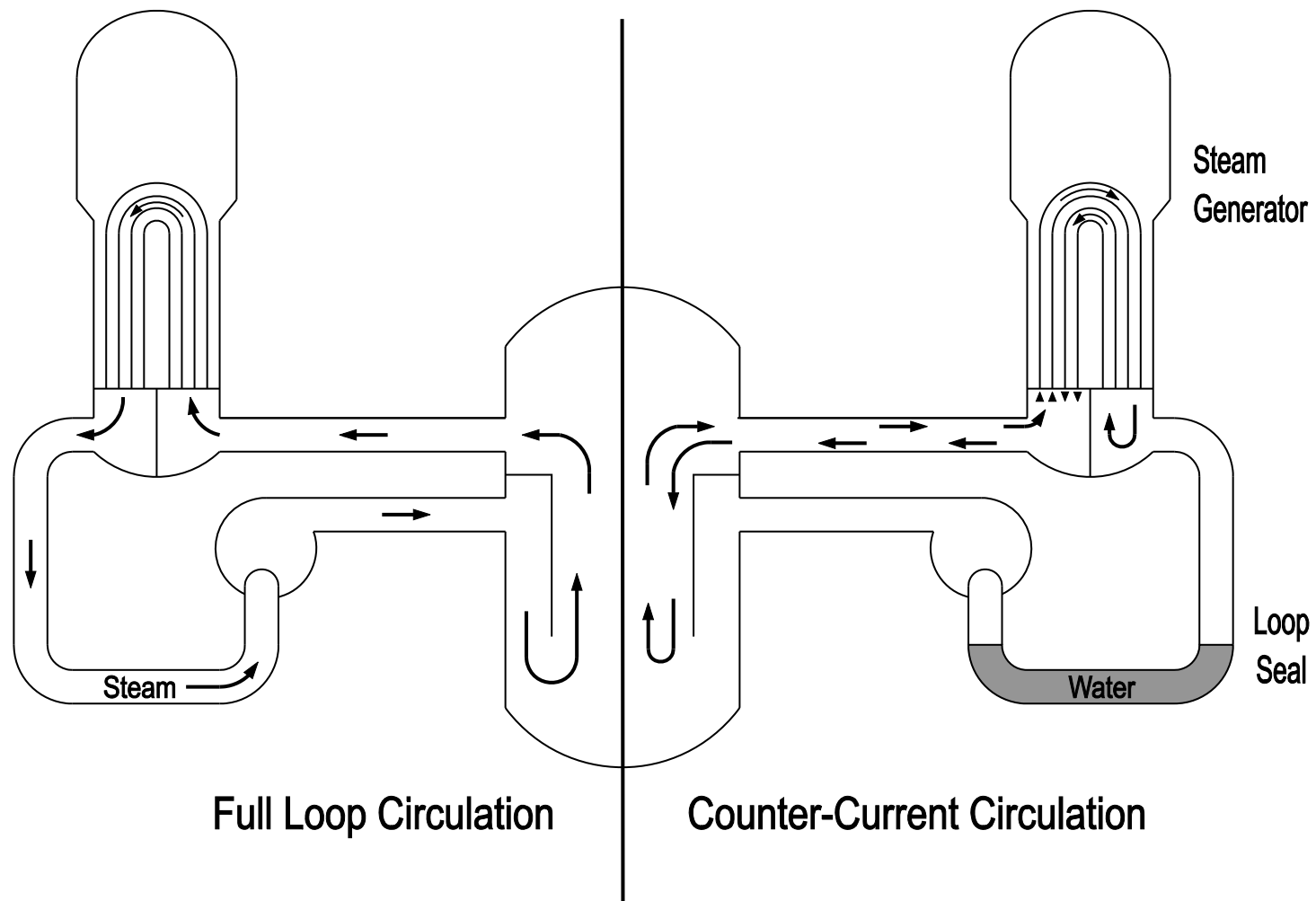
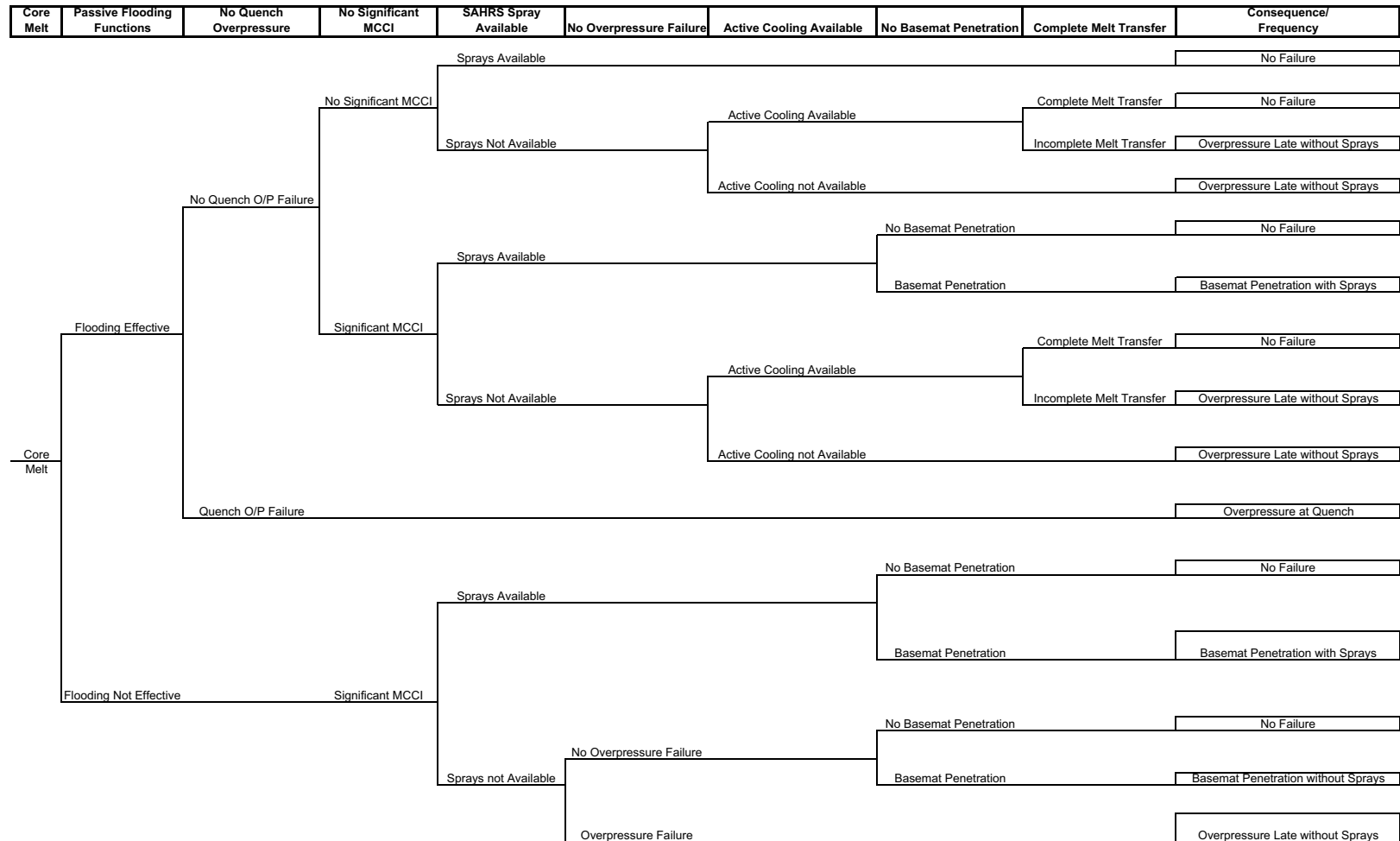


Figure 19.1-6—Natural Circulation Flowpaths in the Primary System



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

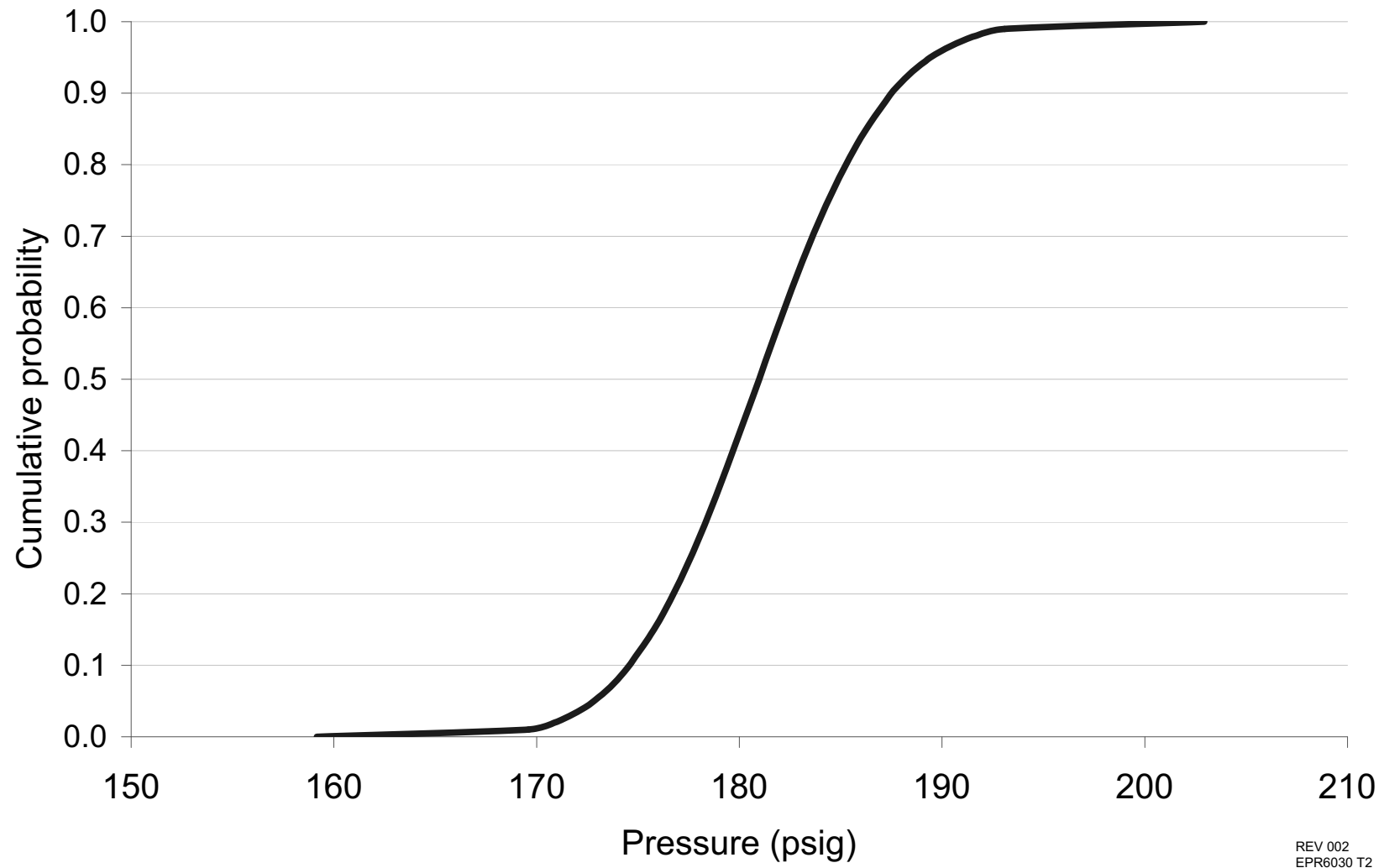


Figure 19.1-9—U.S. EPR Level 2 Internal Events Uncertainty Analysis Results - Cumulative Distribution for Internal Events LRF

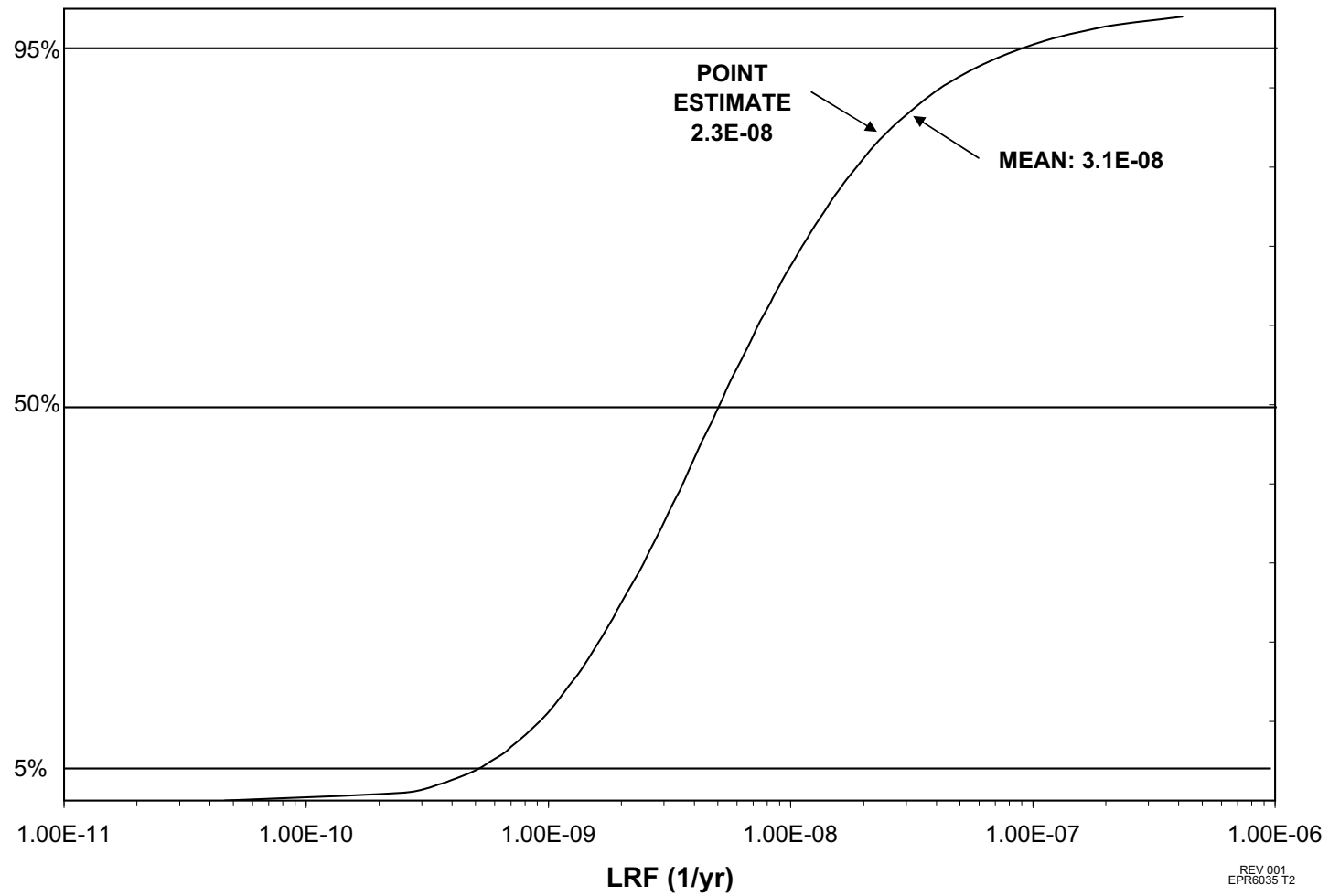
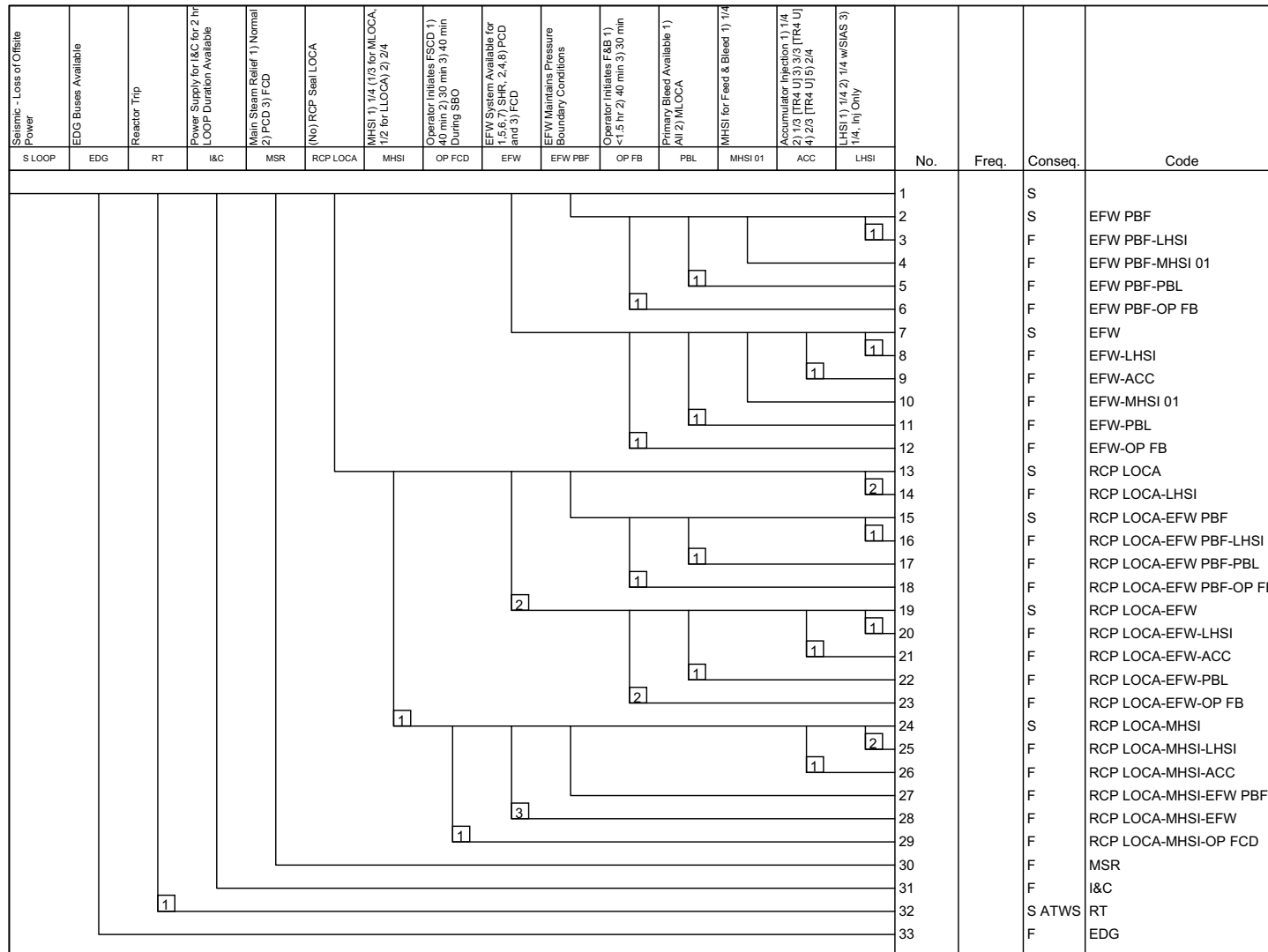
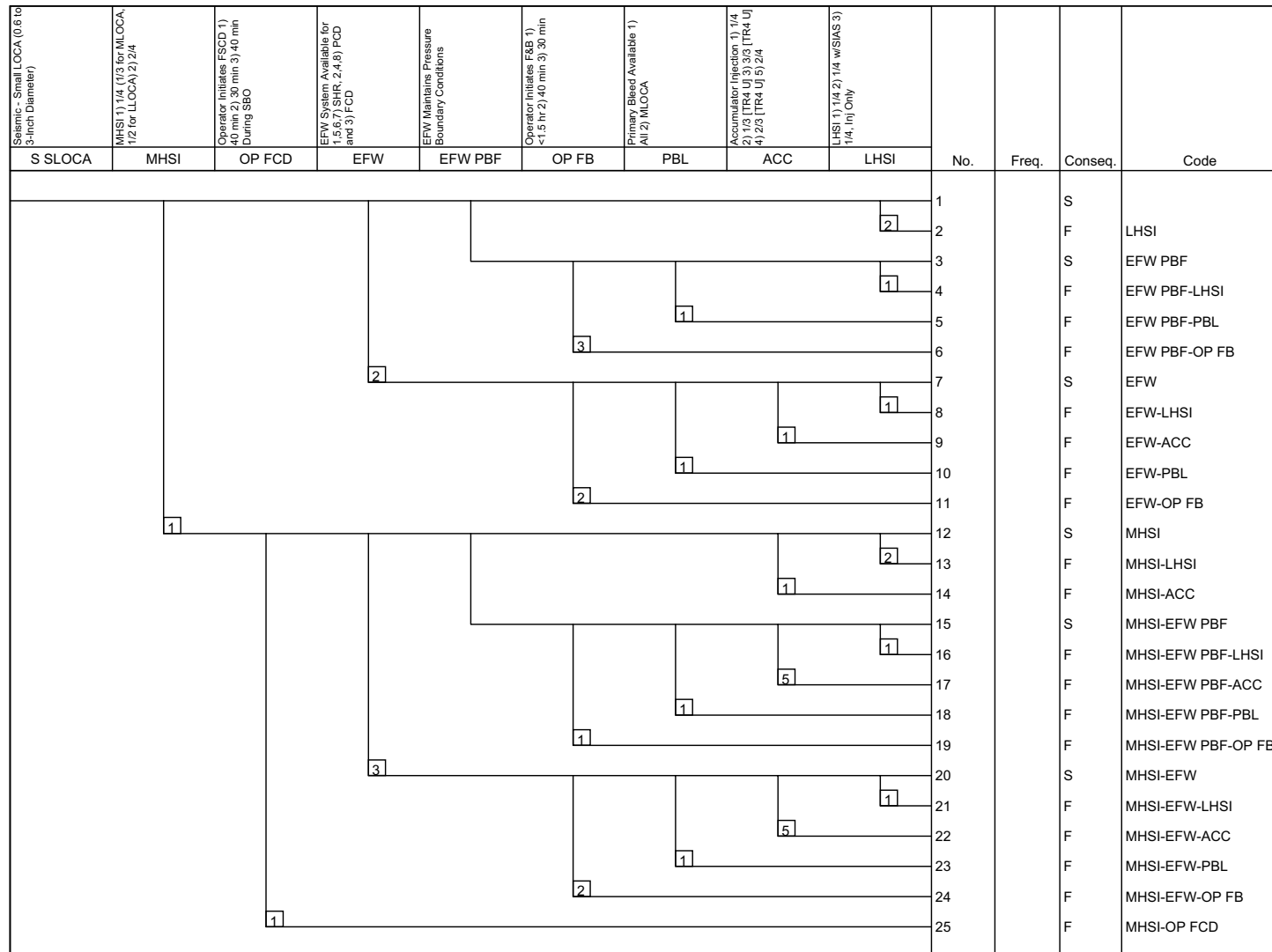


Figure 19.1-10—Event Tree for Seismic Loss of Offsite Power (S LOOP)



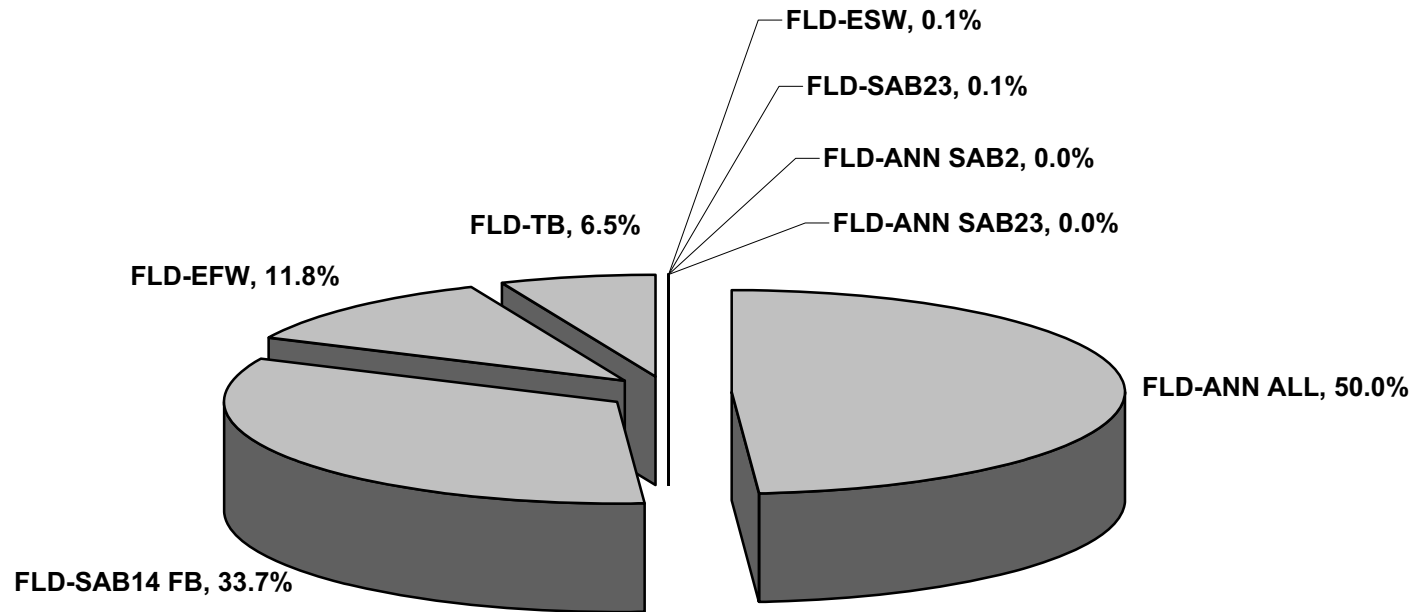
EPR6045 T2

Figure 19.1-11—Event Tree for Seismic Small LOCA (S SLOCA)



EPR6050 T2

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



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

EPR6055 T2

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

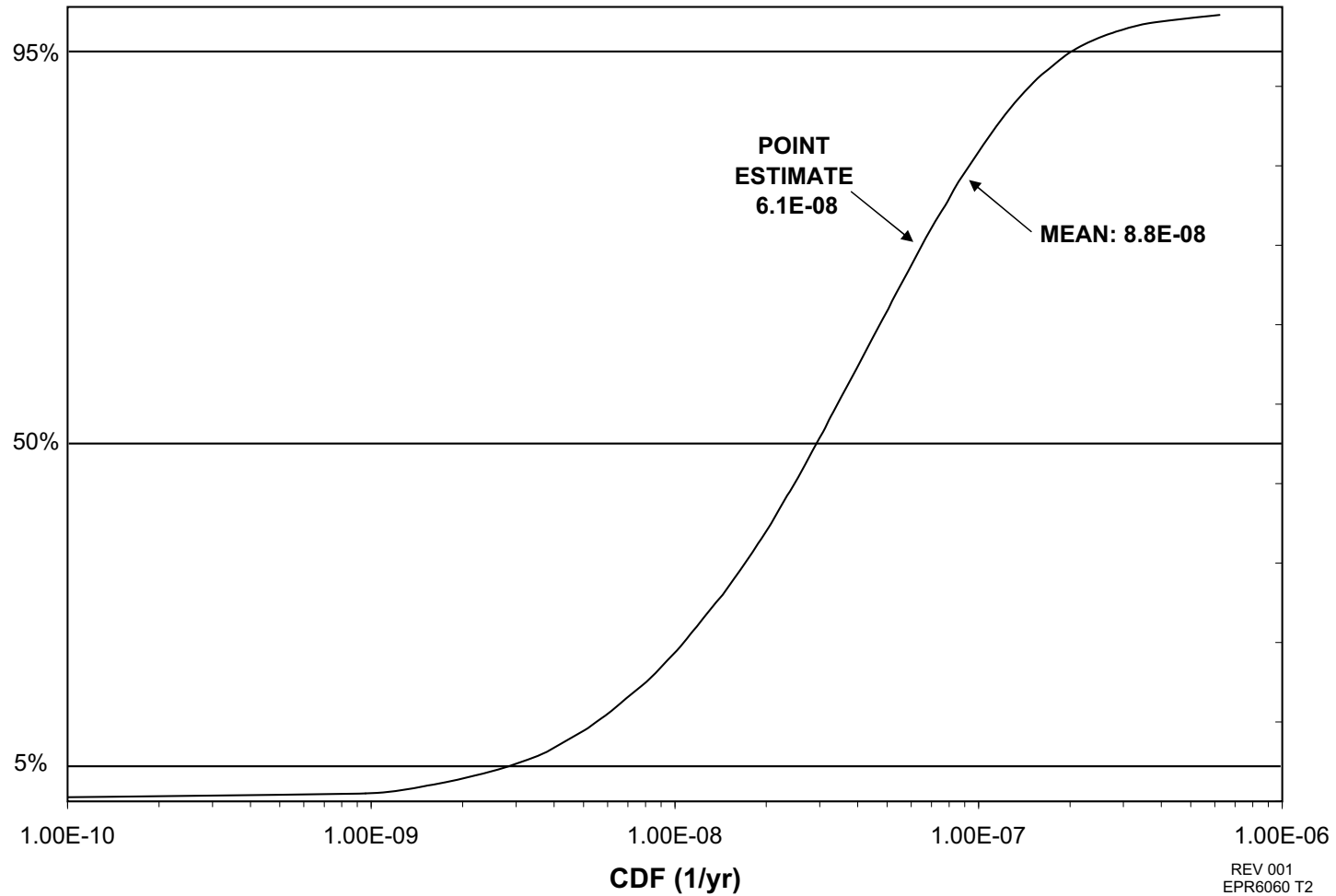


Figure 19.1-14—U.S. EPR Level 2 Flood Events Uncertainty Analysis Results - Cumulative Distribution for Flood Events LRF

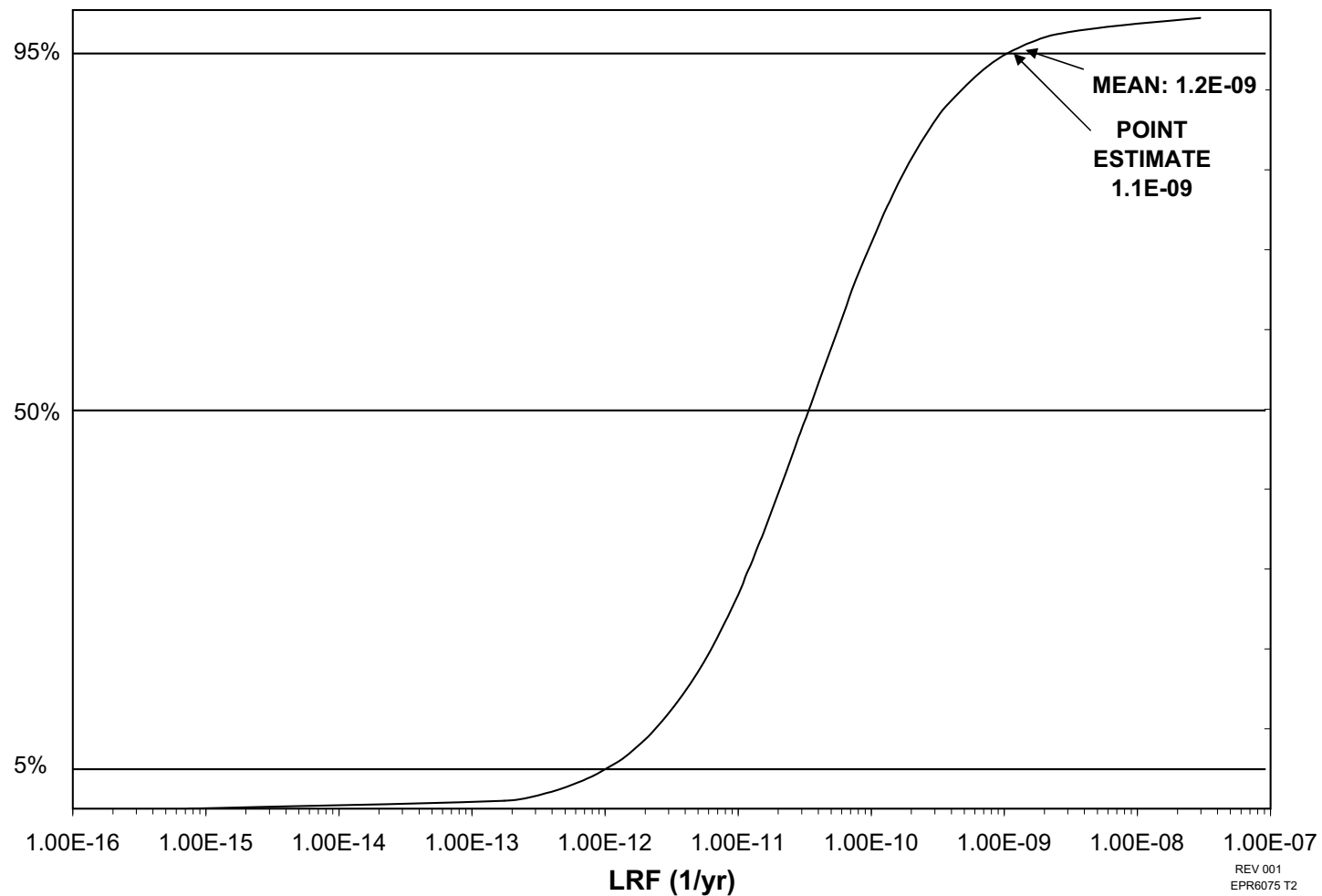
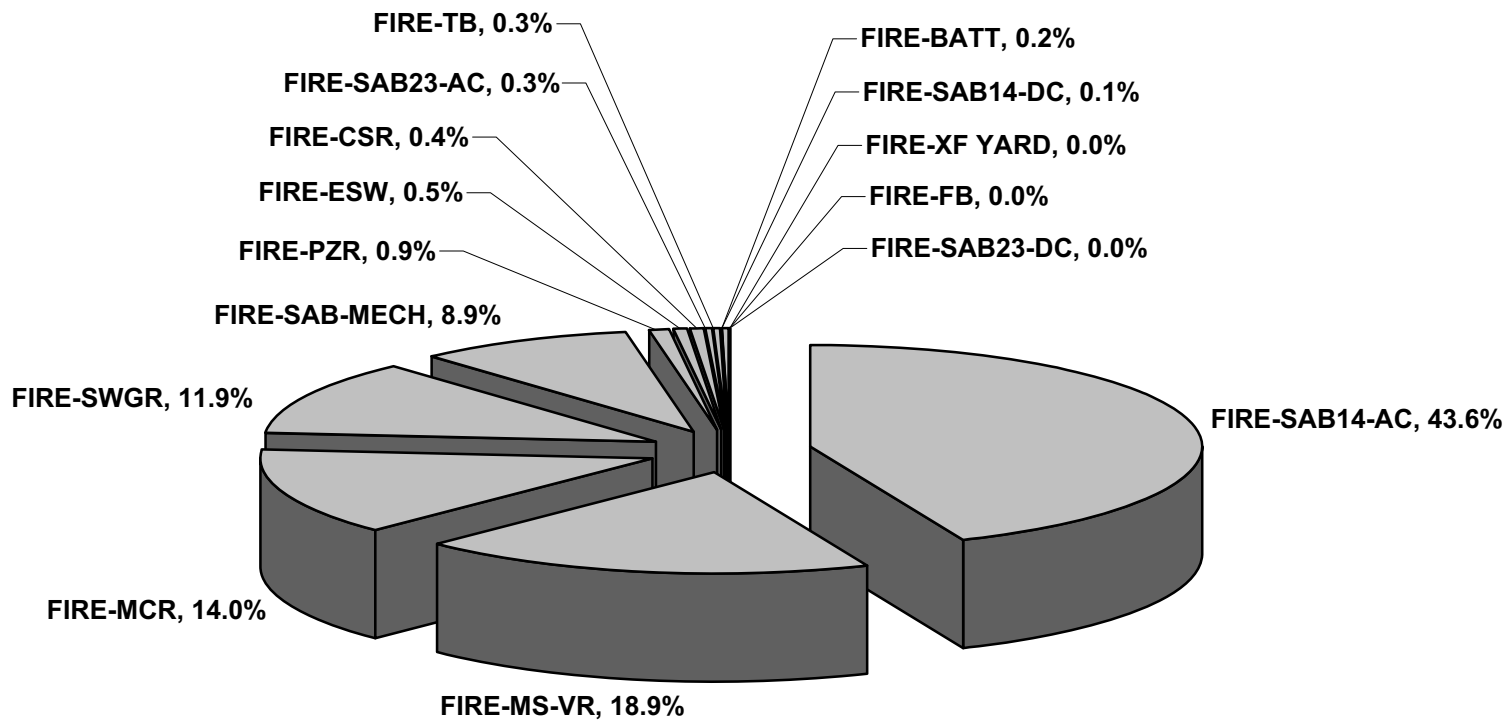


Figure 19.1-15—U.S. EPR Initiating Event Contributions - Level 1 Fire



Fire CDF: 1.8E-07/yr

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

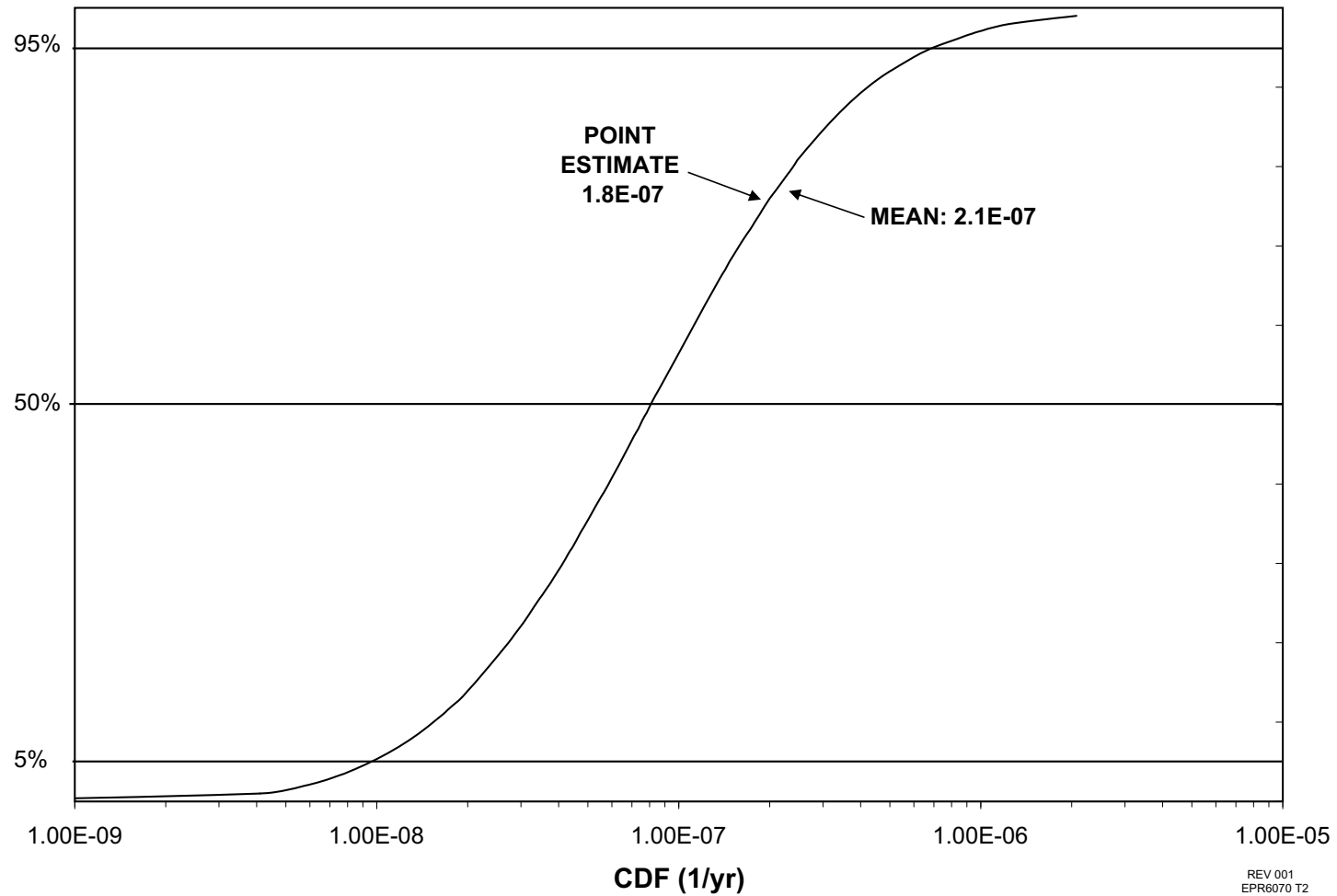


Figure 19.1-19—U.S. EPR Level 2 Fire Events Uncertainty Analysis Results - Cumulative Distribution Function for Fire Events LRF

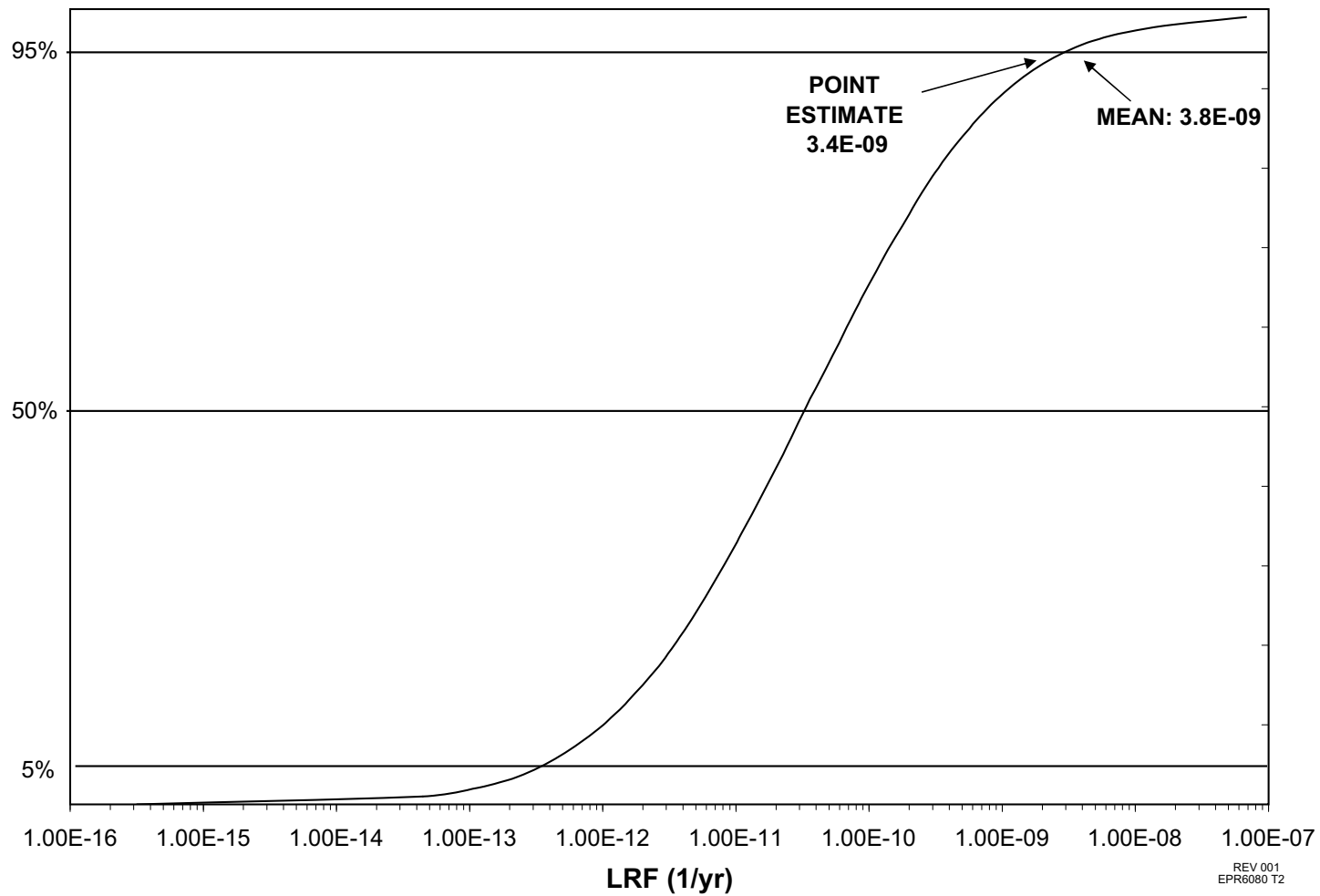
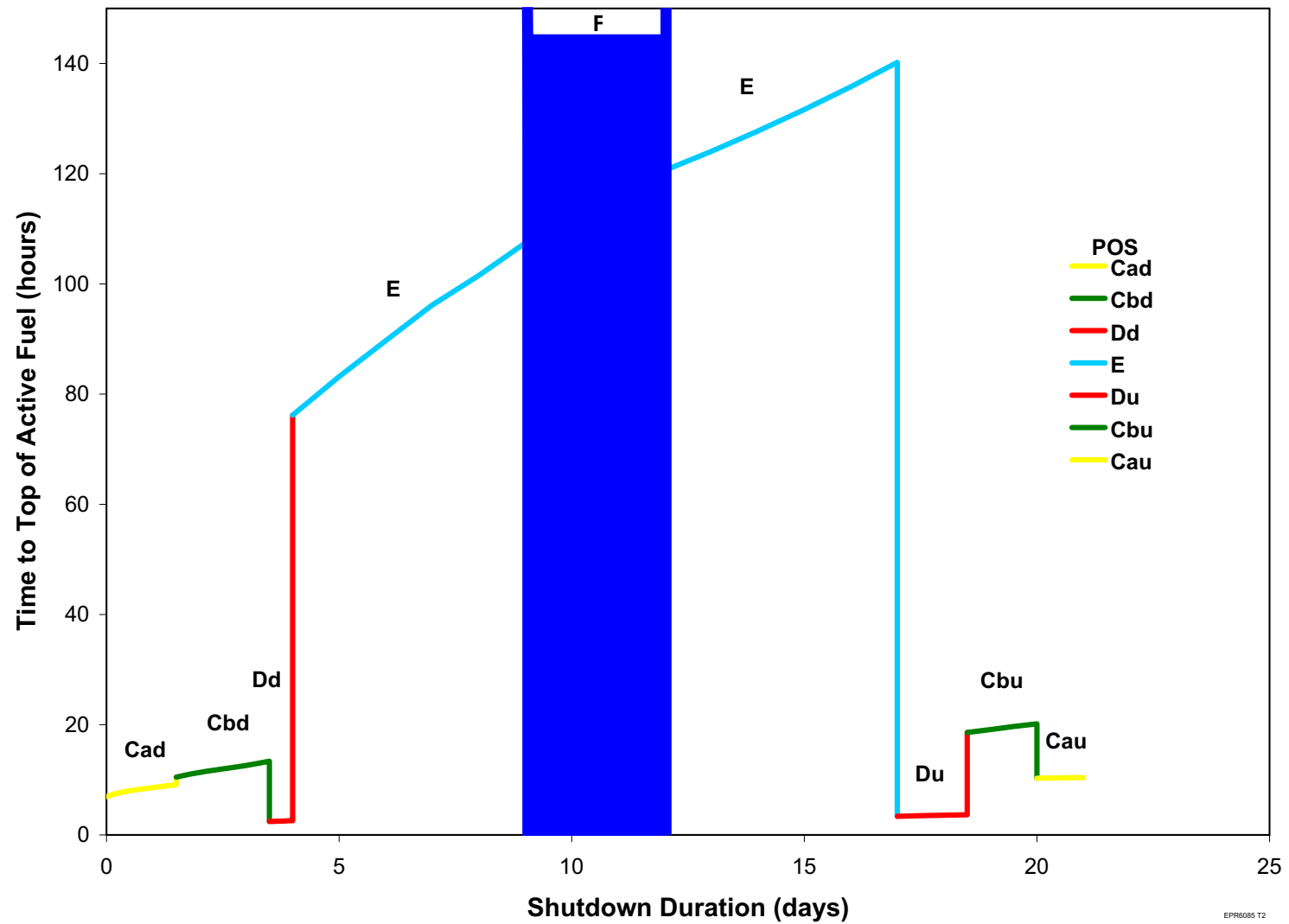
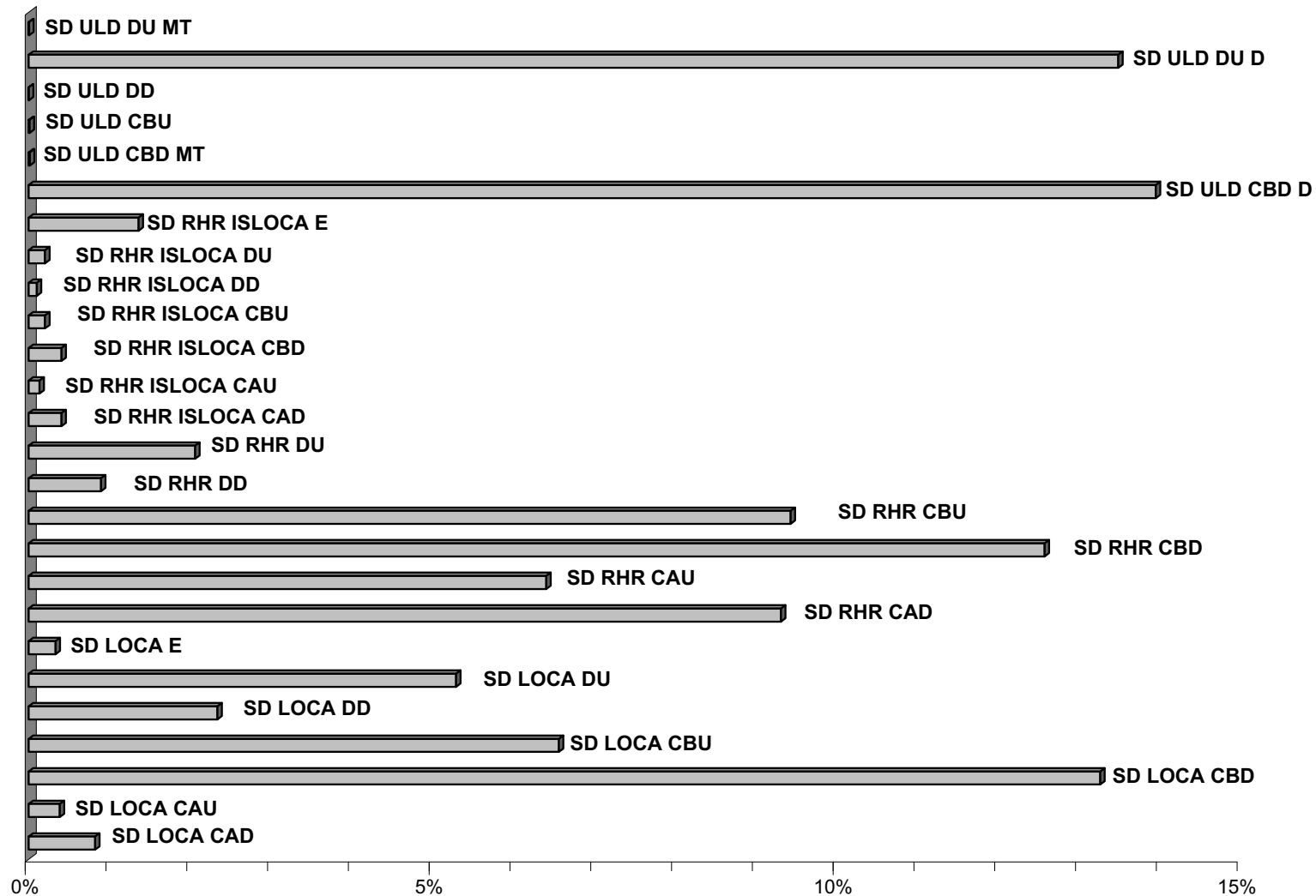


Figure 19.1-20—Time to TAF - Level 1 Shutdown



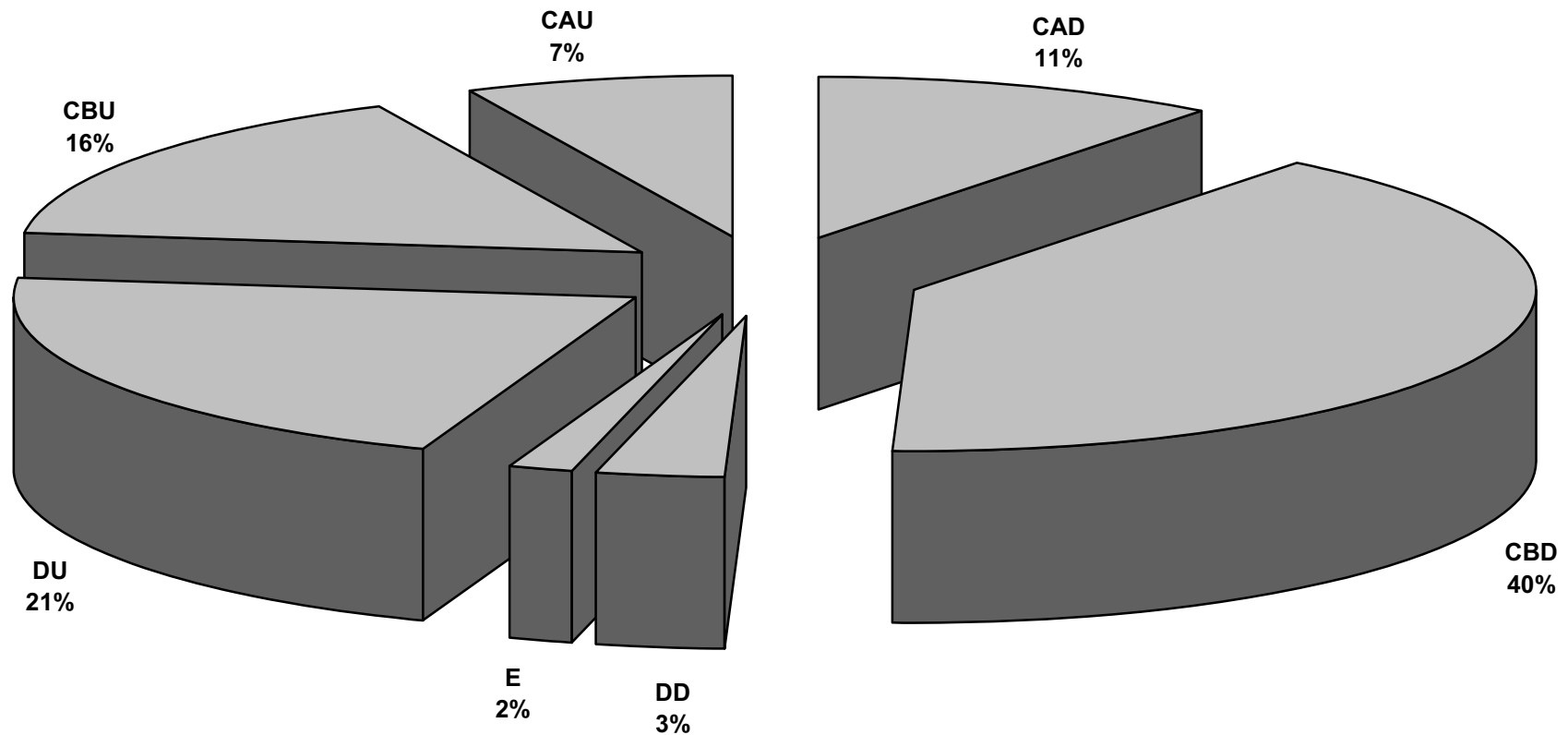
EPR6085 T2

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



EPR6090 T2

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



Shutdown CDF = 5.8 E-08

EPR6095 T2

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

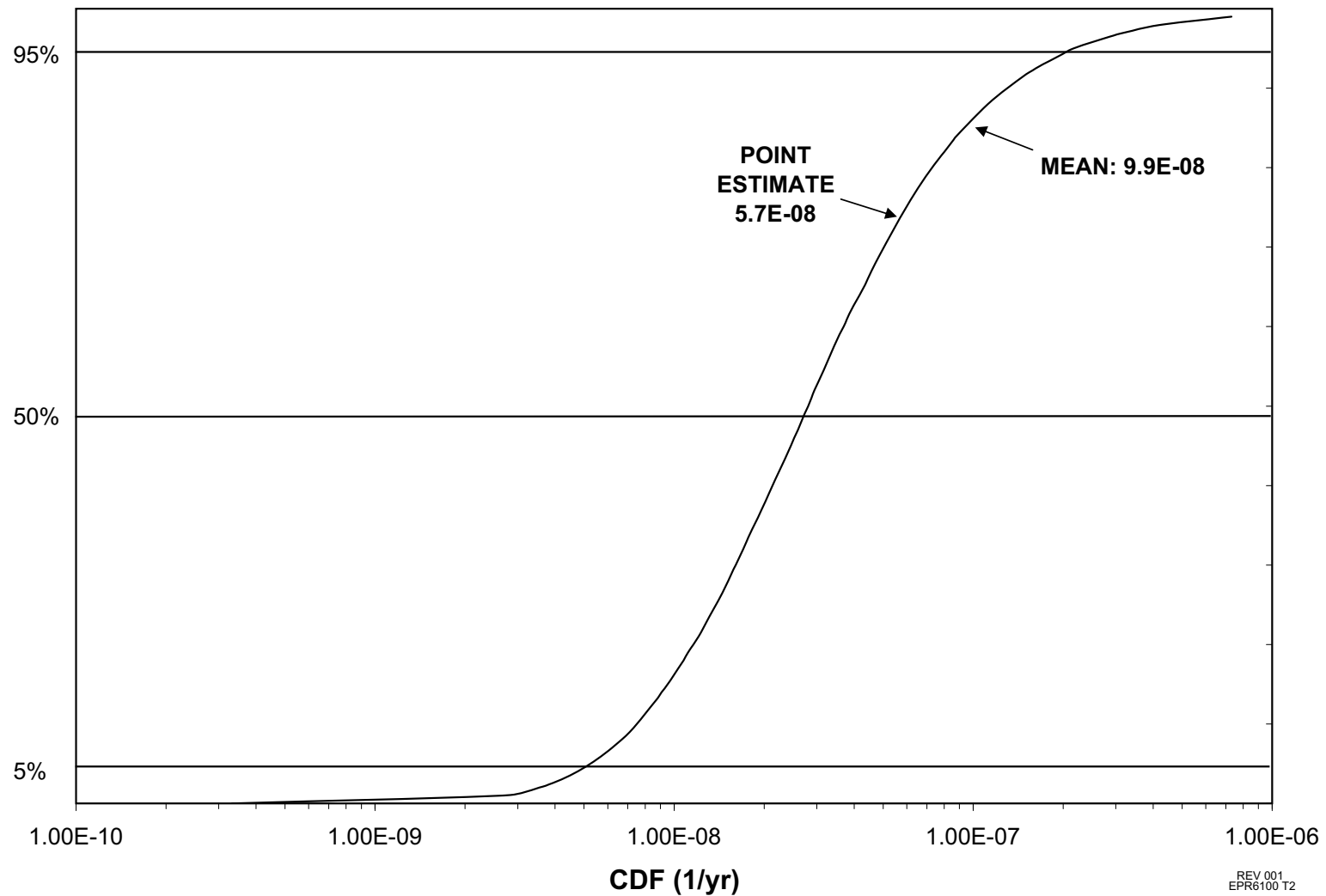
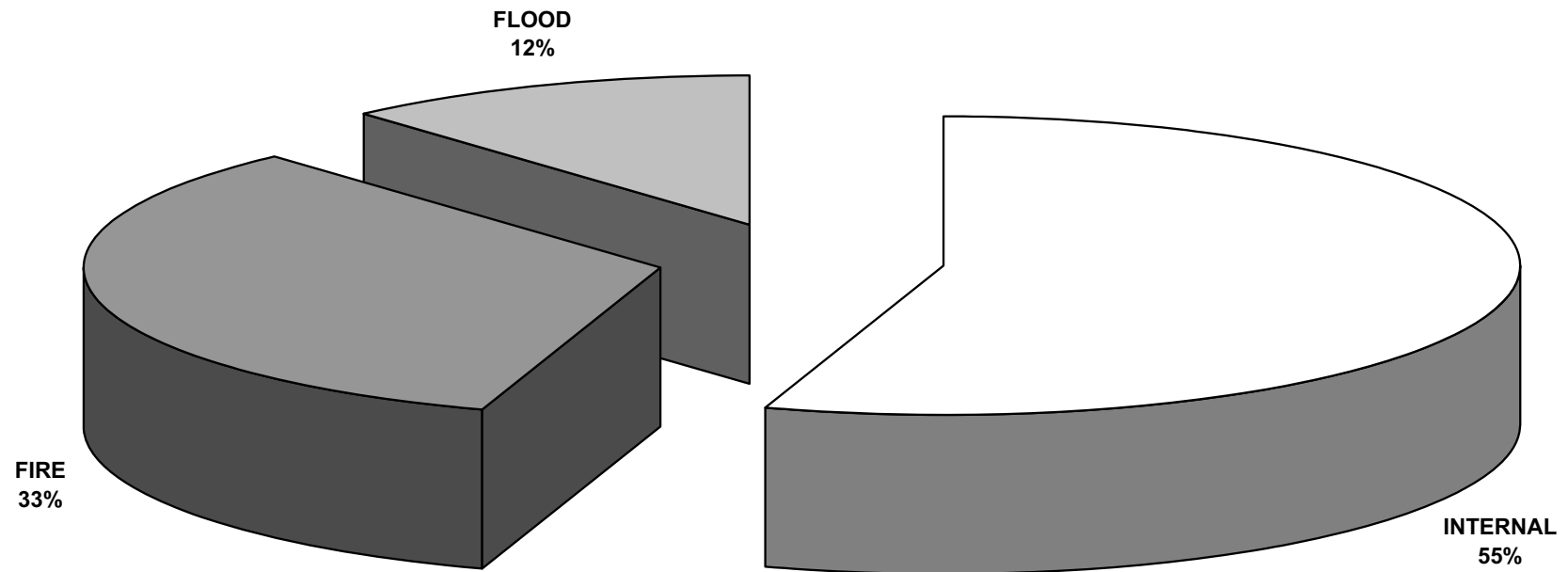


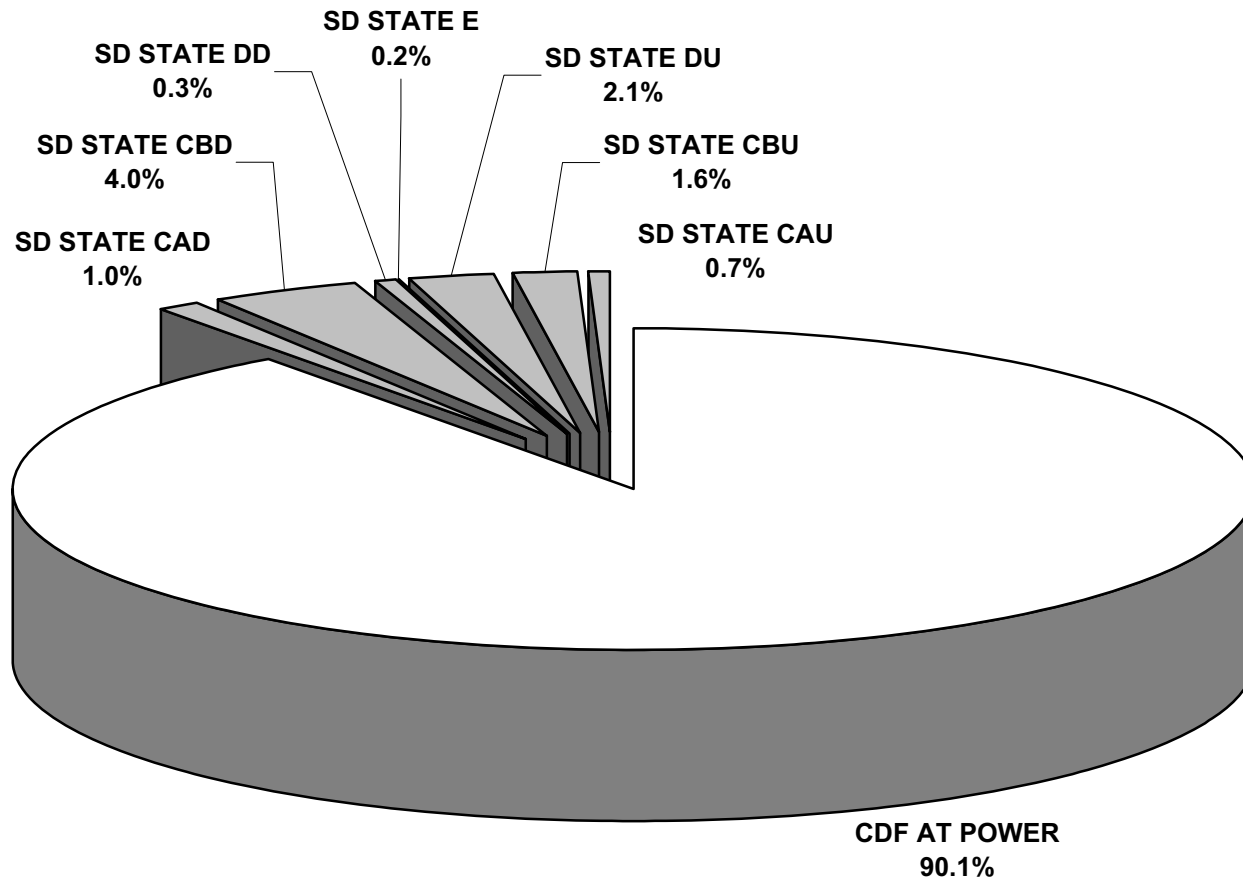
Figure 19.1-24—U.S. EPR Level 1 Initiating Event Contributions to Total CDF at Power



AT POWER TOTAL CDF = $5.3 \text{ E-}07 / \text{yr}$

EPR6105 T2

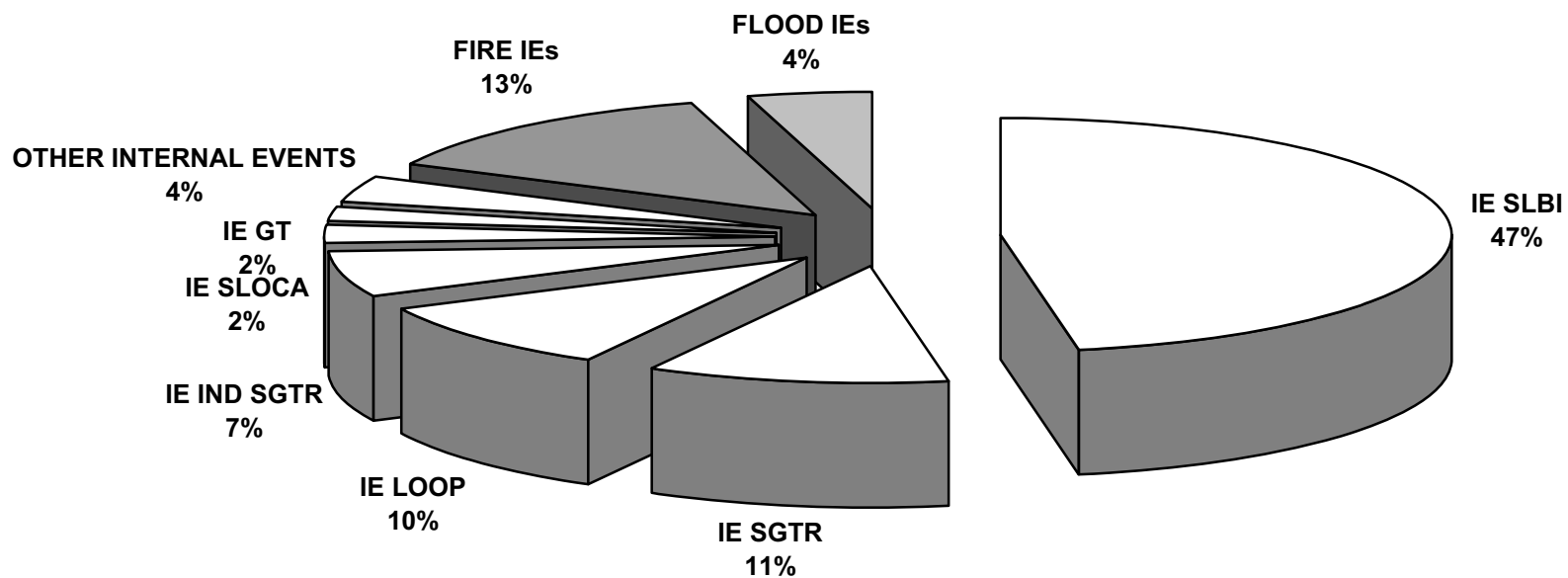
Figure 19.1-25—U.S. EPR POS Contributions to Total CDF



Total CDF = 5.8 E-07/yr

EPR6110 T2

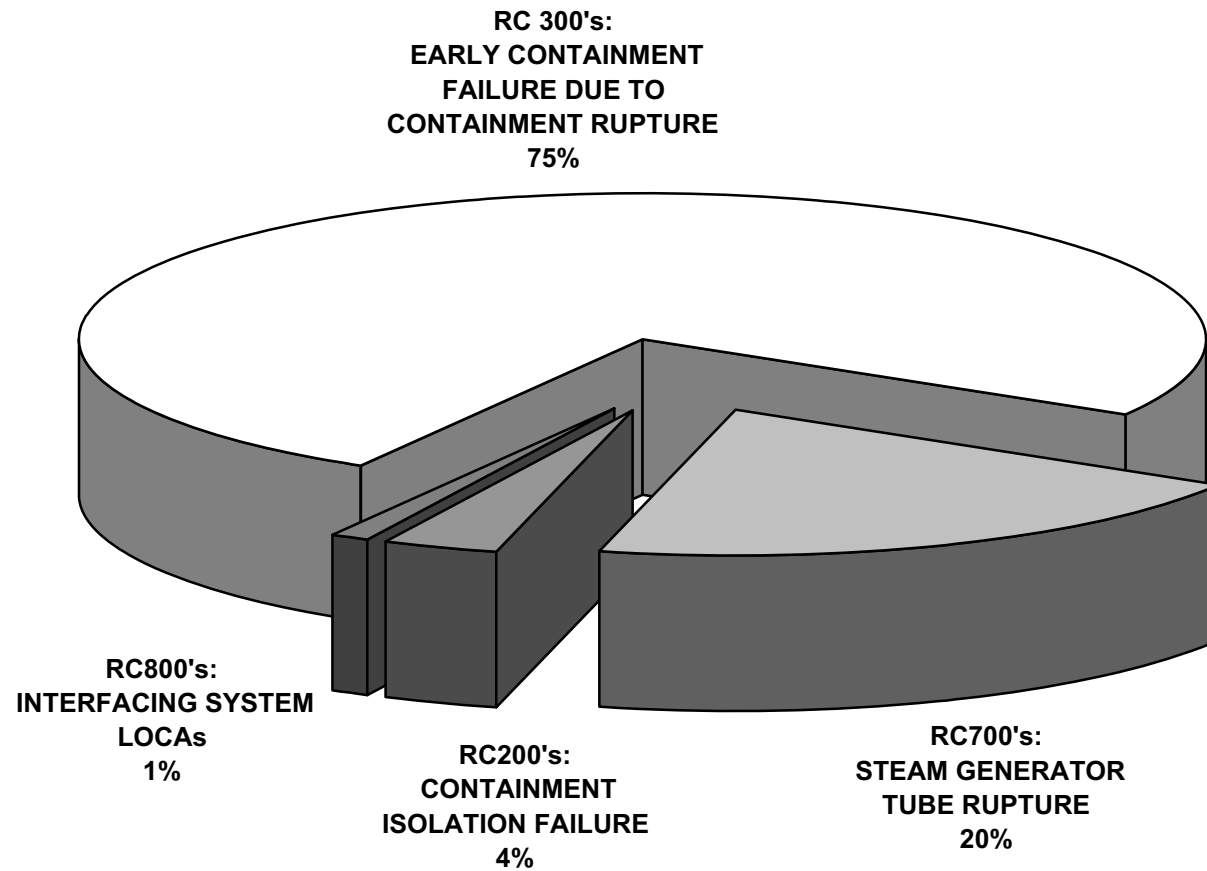
Figure 19.1-26—U.S. EPR Level 2 Initiating Event Contribution to Total At-Power LRF



Total At-power LRF: 2.7E-08/yr

REV 001
EPR6130 T2

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



Total At-power LRF: 2.7E-08/yr

REV 001
EPR6135 T2

Figure 19.1-28—U.S. EPR System Ranked by Importance (FV) - Level 1 Total

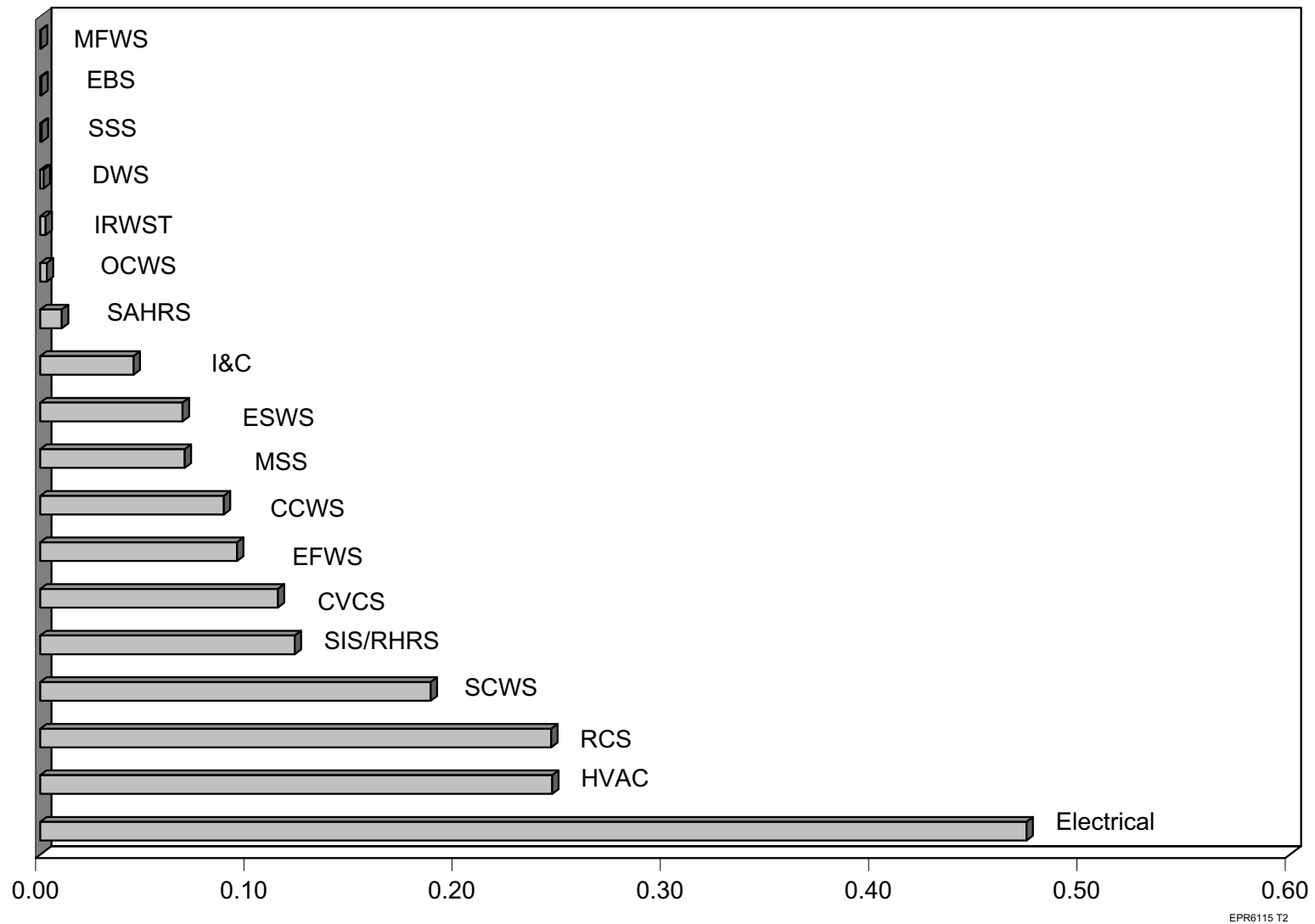


Figure 19.1-29—U.S. EPR Level 1 Internal Events Total Uncertainty Analysis Results - Cumulative Distribution for All Internal, Fire and Flood Events CDF

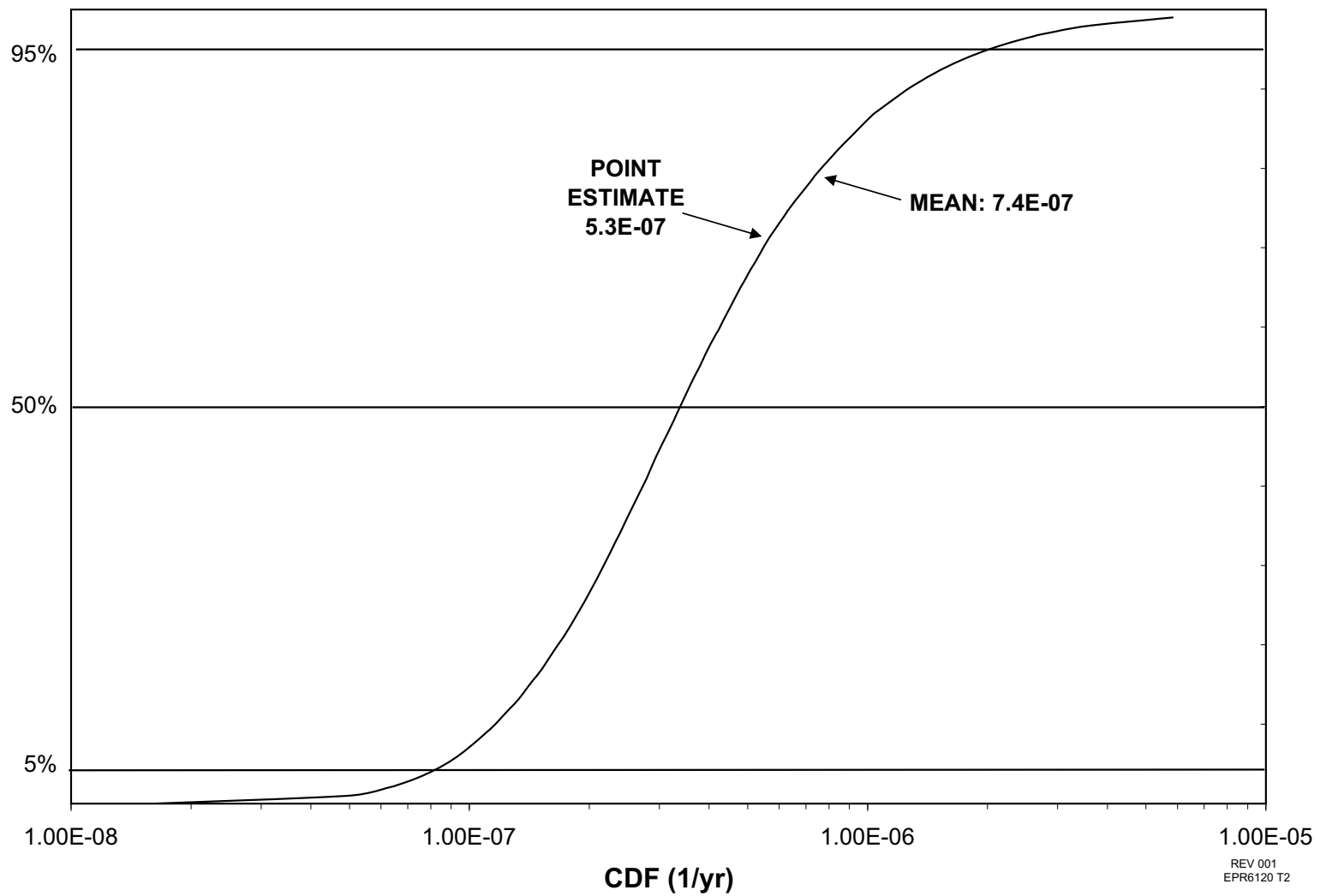


Figure 19.1-30—U.S. EPR Level 2 Internal Events Total Uncertainty Analysis Results - Cumulative Distribution for All Internal, Fire and Flood Events LRF

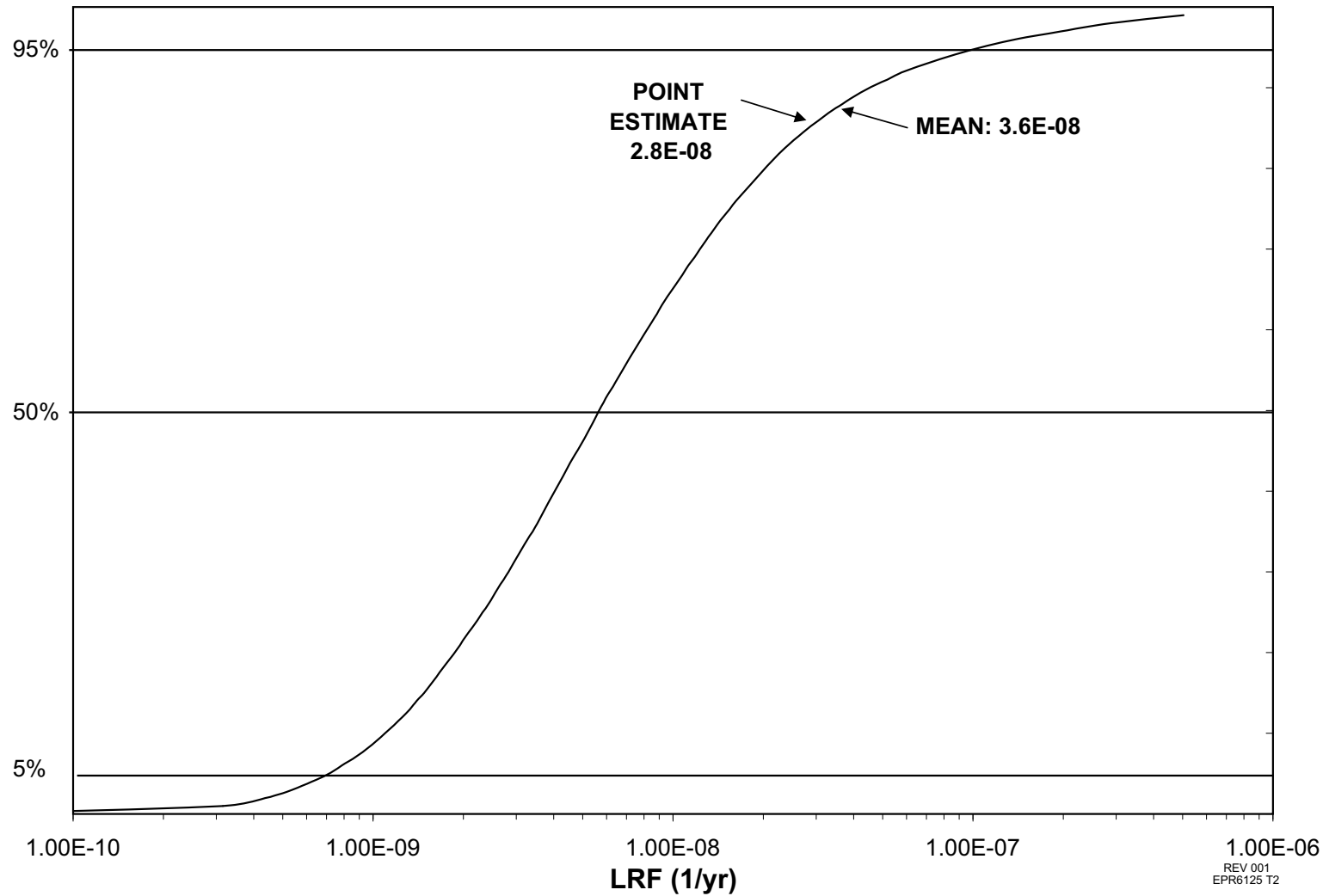


Figure 19.1-31—Seismic Margin Earthquake for Soft, Medium, Hard and High Frequency Soil Sites

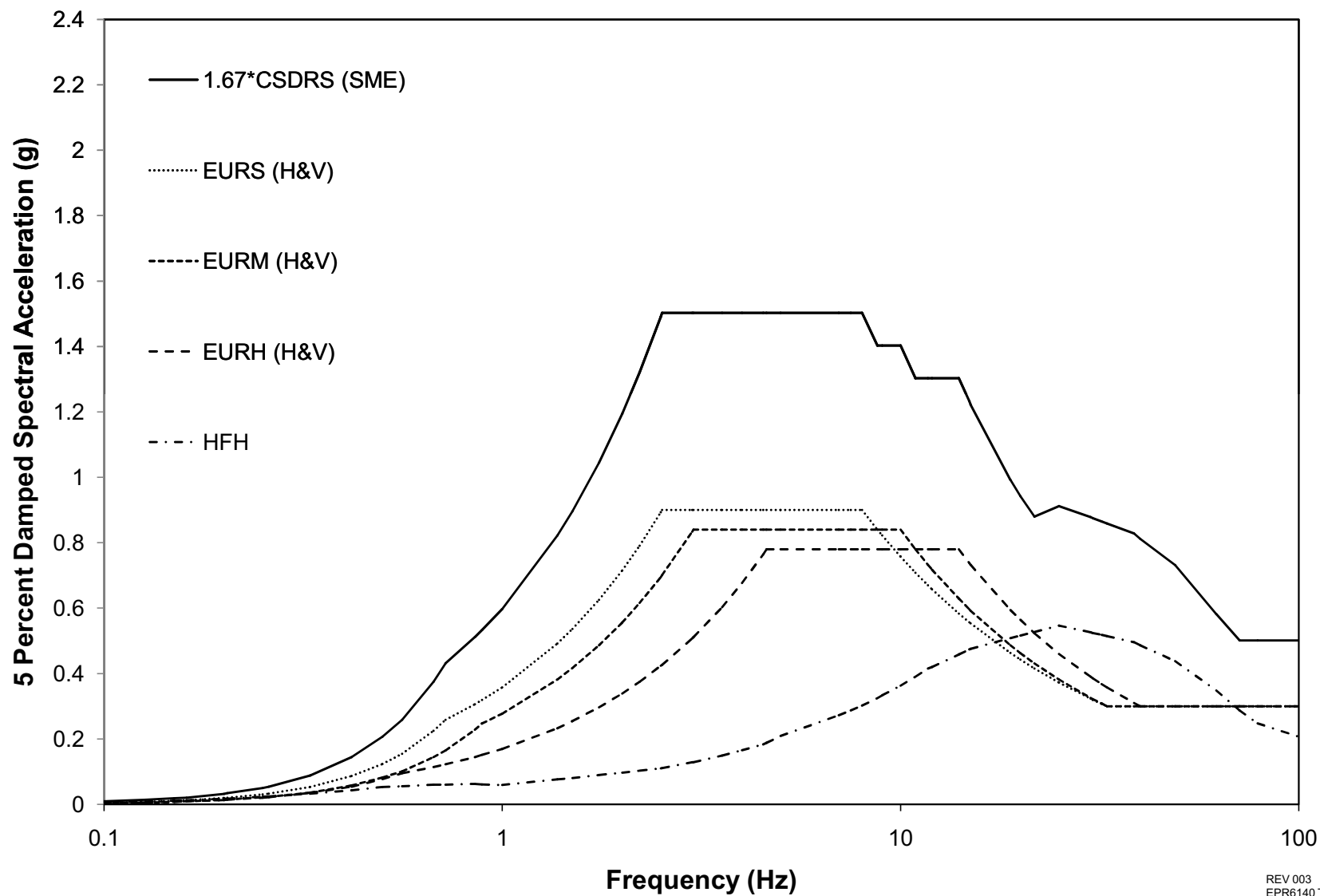
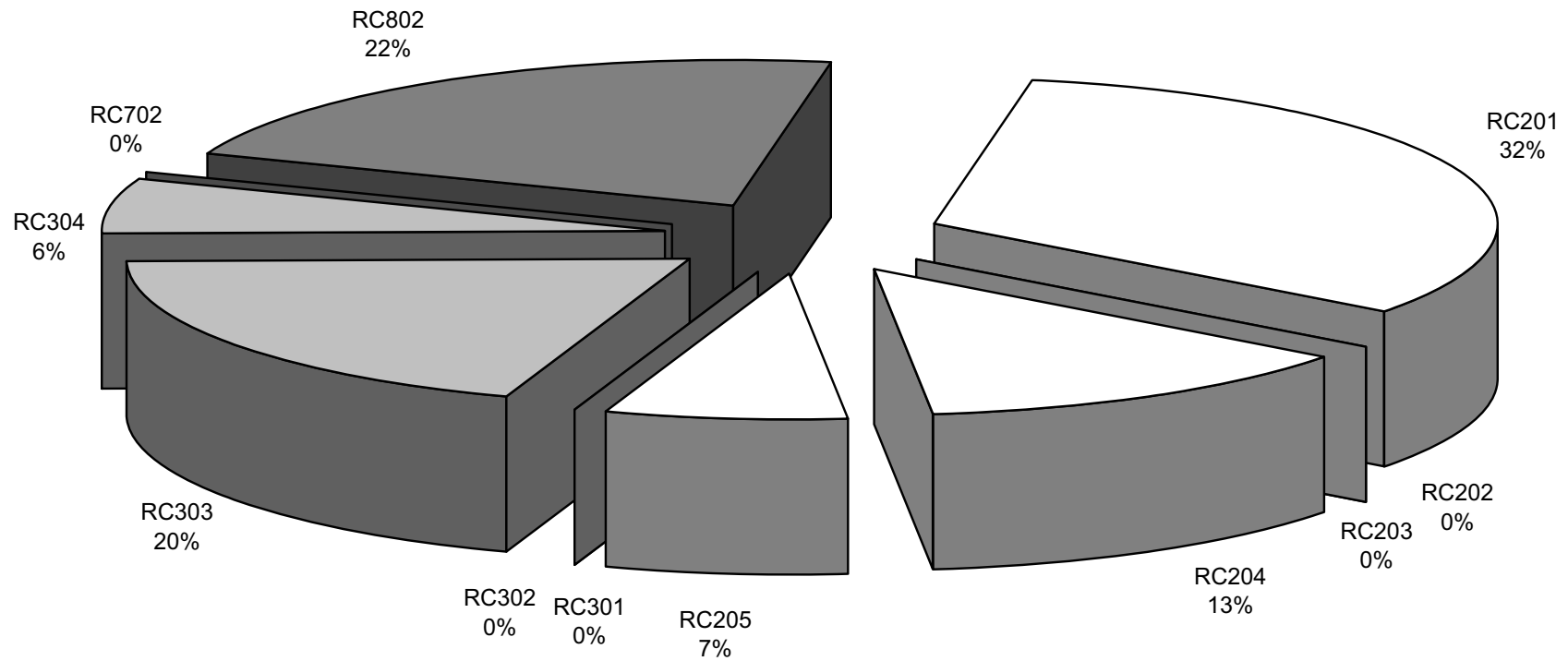


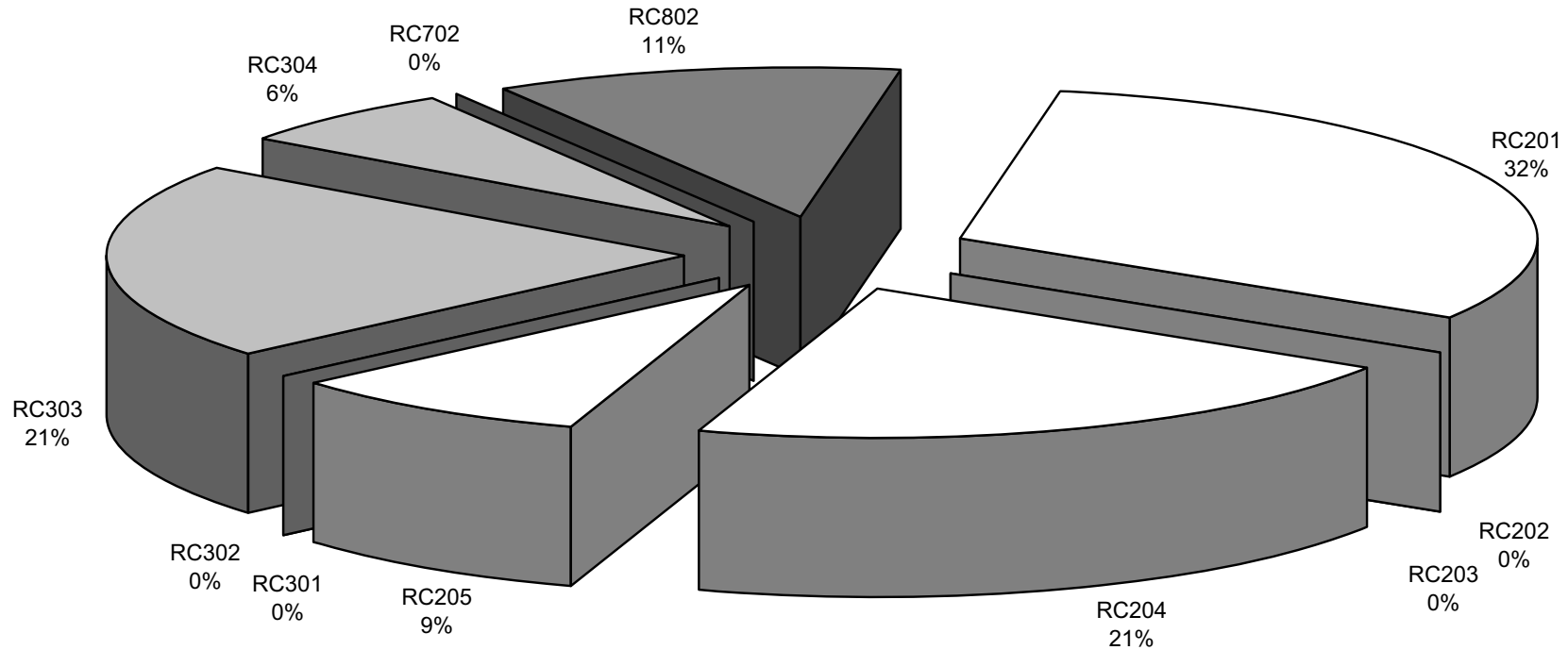
Figure 19.1-32—POS CA Release Category Contributions to Shutdown LRF



POS CA Shutdown LRF = 1.4 E-09/yr

EPR6145 T2

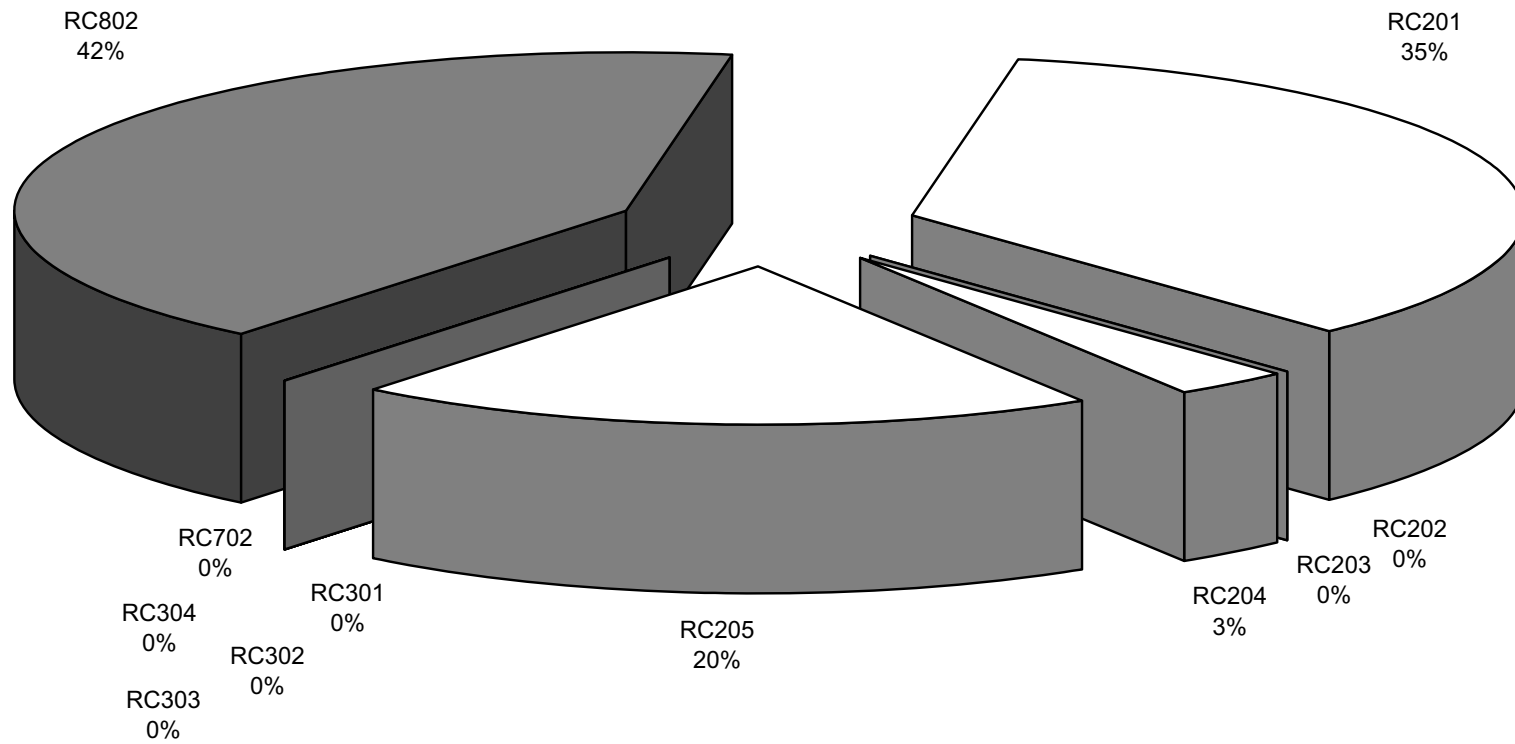
Figure 19.1-33—POS CB Release Category Contributions to Shutdown LRF



POS CB Shutdown LRF = 3.0 E-09/yr

EPR6150 T2

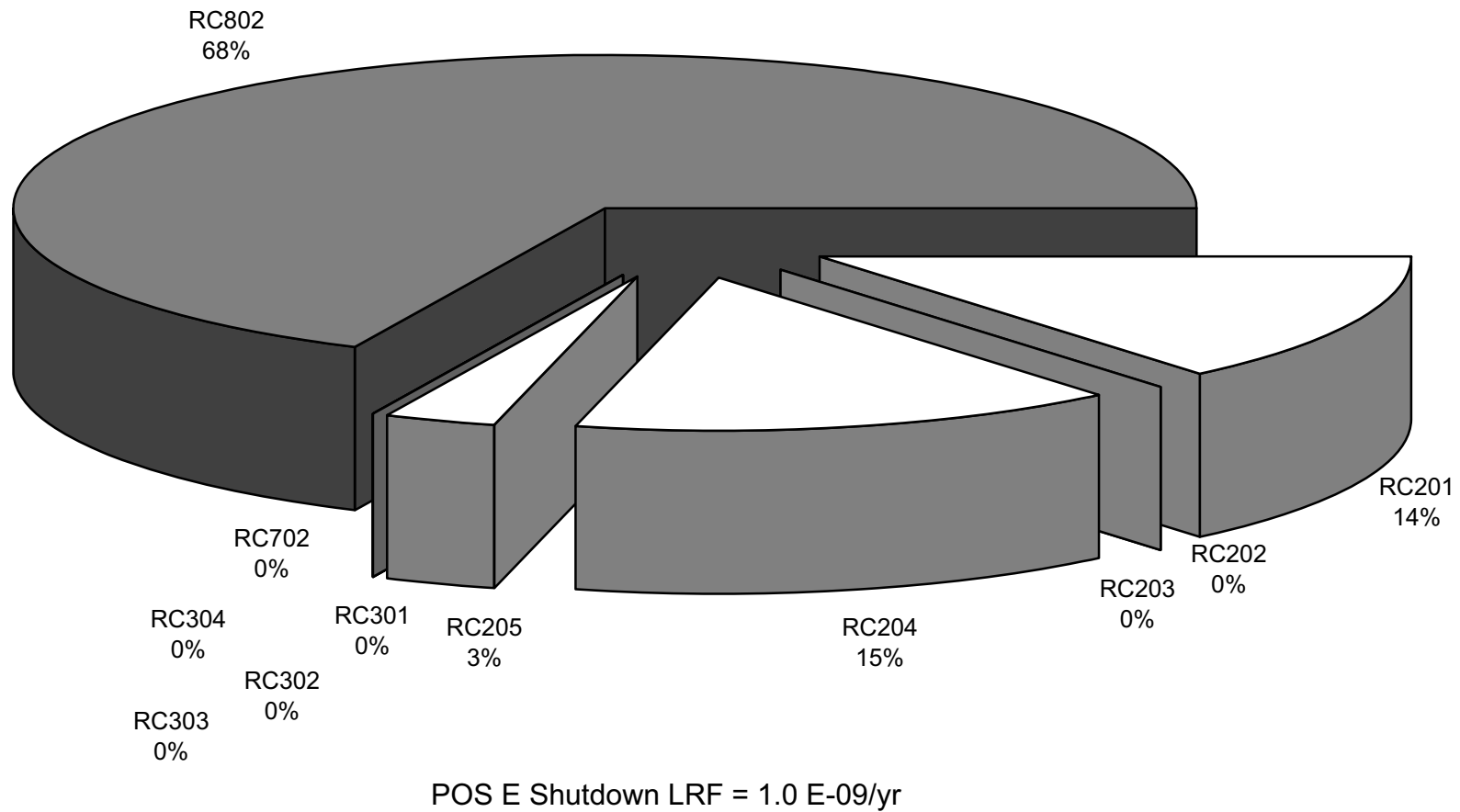
Figure 19.1-34—POS D Release Category Contributions to Shutdown LRF



POS D Shutdown LRF = 3.6 E-10/yr

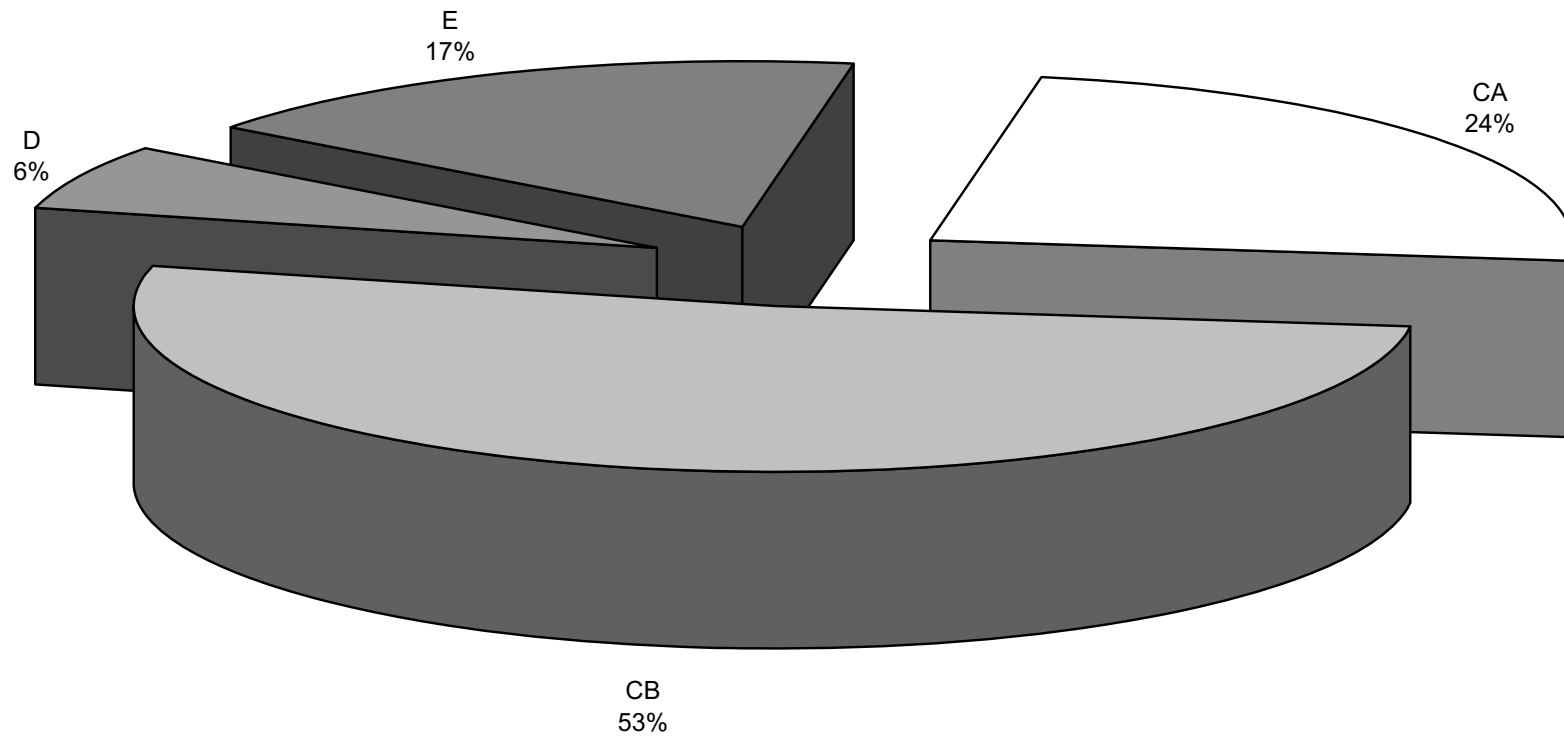
EPR6155 T2

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



EPR6160 T2

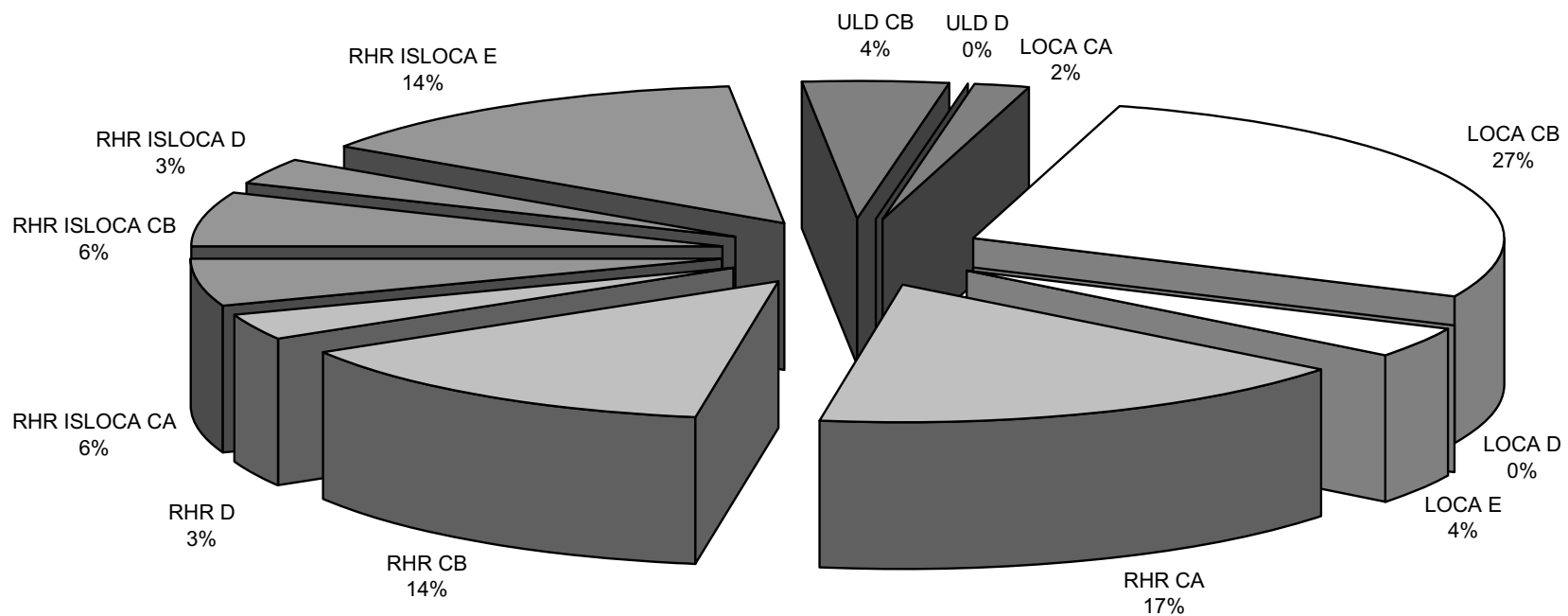
Figure 19.1-36—POS Contributions to Shutdown LRF



Shutdown LRF = 5.7 E-09/yr

EPR6165 T2

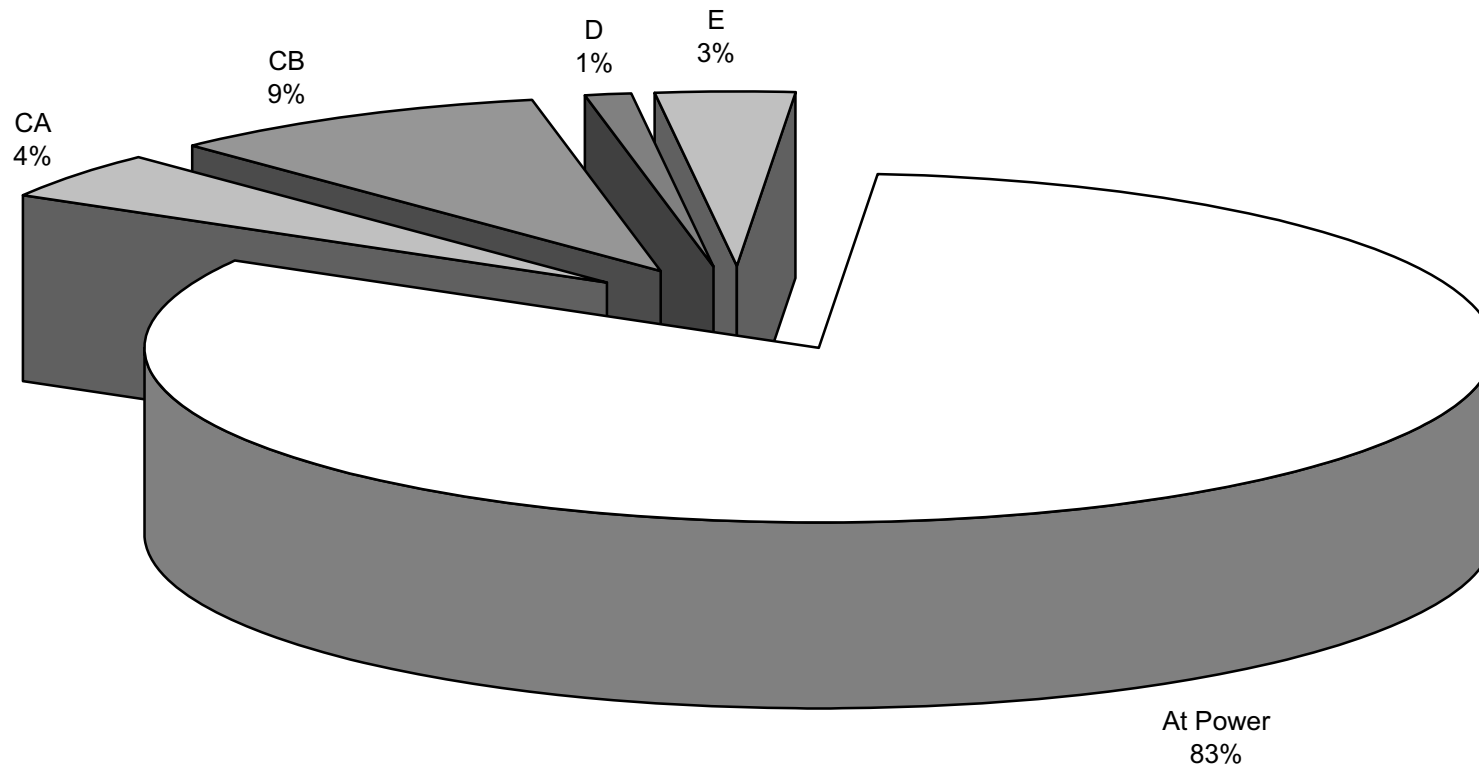
Figure 19.1-37—Initiating Events Contributions to Shutdown LRF



Shutdown LRF = 5.7 E-09/yr

EPR6170 T2

Figure 19.1-38—POS Contributions to Total LRF



Total LRF = 3.2 E-08/yr

EPR6175 T2

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