

Participant A

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	Developed from service history	5.33E-08	1.60E-07
	2 (> 1,500)		5.33E-08	1.60E-07
	3 (> 5,000)		5.33E-08	1.60E-07
	4 (> 25,000)		5.33E-08	1.60E-07
	5 (> 100,000)		5.33E-08	1.60E-07
	6 (> 500,000)		5.33E-08	1.60E-07
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	Developed from service history	1.37E-08	4.10E-08
	2 (> 1,500)		1.37E-08	4.10E-08
	3 (> 5,000)		1.37E-08	4.10E-08
	4 (> 25,000)		1.37E-08	4.10E-08
	5 (> 100,000)		1.37E-08	4.10E-08
	6 (> 500,000)		1.37E-08	4.10E-08
Surge Line	1 (> 100)	Developed from service history	5.33E-09	1.60E-08
	2 (> 1,500)		5.33E-09	1.60E-08
	3 (> 5,000)		5.33E-09	1.60E-08
	4 (> 25,000)		5.33E-09	1.60E-08
	5 (> 100,000)		5.33E-09	1.60E-08
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)	Developed from service history	1.50E-07	4.50E-07
	2 (> 1,500)		1.50E-07	4.50E-07
	3 (> 5,000)		1.50E-07	4.50E-07
	4 (> 25,000)		1.50E-07	4.50E-07

	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	Developed from service history	8.33E-07	2.50E-06
	2 (> 1,500)		8.33E-07	2.50E-06
	3 (> 5,000)		8.33E-07	2.50E-06
	4 (> 25,000)		8.33E-07	2.50E-06
	5 (> 100,000)		8.33E-07	2.50E-06
	6 (> 500,000)			
Drain Lines	1 (> 100)	Developed from service history	6.33E-07	1.90E-06
	2 (> 1,500)		6.33E-07	1.90E-06
	3 (> 5,000)		6.33E-07	1.90E-06
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)	Developed from service history	1.50E-06	4.50E-06
	2 (> 1,500)		1.50E-06	4.50E-06
	3 (> 5,000)		1.50E-06	4.50E-06
	4 (> 25,000)		1.50E-06	4.50E-06
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	Developed from service history	5.33E-07	1.60E-06
	2 (> 1,500)		5.33E-07	1.60E-06
	3 (> 5,000)		5.33E-07	1.60E-06
	4 (> 25,000)		5.33E-07	1.60E-06
	5 (> 100,000)		5.33E-07	1.60E-06
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)	Developed from service history	6.67E-08	2.00E-07
	2 (> 1,500)		6.67E-08	2.00E-07
	3 (> 5,000)		6.67E-08	2.00E-07
	4 (> 25,000)		6.67E-08	2.00E-07
	5 (> 100,000)			
	6 (> 500,000)			
Pressurizer Spray Lines	1 (> 100)	Developed from service history	1.07E-07	3.20E-07
	2 (> 1,500)		1.07E-07	3.20E-07
	3 (> 5,000)		1.07E-07	3.20E-07
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Reactor Head Lines	1 (> 100)	Developed from service history	1.37E-08	4.10E-08
	2 (> 1,500)		1.37E-08	4.10E-08
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Instrumentation Lines	1 (> 100)	Developed from service history	1.60E-06	4.80E-06
	2 (> 1,500)		1.60E-06	4.80E-06
	3 (> 5,000)		1.60E-06	4.80E-06
	4 (> 25,000)		1.60E-06	4.80E-06
	5 (> 100,000)			
	6 (> 500,000)			

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
4.80E-07	1	1	1	1	1	1
4.80E-07	0.015	0.3	0.585	0.015	0.3	0.585
4.80E-07	0.005	0.1	0.195	0.005	0.1	0.195
4.80E-07	0.0015	0.03	0.0585	0.0015	0.03	0.0585
4.80E-07	0.0005	0.01	0.0195	0.0005	0.01	0.0195
4.80E-07	0.00015	0.003	0.00585	0.00015	0.003	0.00585
1.23E-07	1	1	1	1	1	1
1.23E-07	0.015	0.3	0.585	0.015	0.3	0.585
1.23E-07	0.005	0.1	0.195	0.005	0.1	0.195
1.23E-07	0.0015	0.03	0.0585	0.0015	0.03	0.0585
1.23E-07	0.0005	0.01	0.0195	0.0005	0.01	0.0195
1.23E-07	0.00015	0.003	0.00585	0.00015	0.003	0.00585
4.80E-08	1	1	1	1	1	1
4.80E-08	0.015	0.3	0.585	0.015	0.3	0.585
4.80E-08	0.005	0.1	0.195	0.005	0.1	0.195
4.80E-08	0.0015	0.03	0.0585	0.0015	0.03	0.0585
4.80E-08	0.0005	0.01	0.0195	0.0005	0.01	0.0195
1.35E-06	1	1	1	1	1	1
1.35E-06	0.015	0.3	0.585	0.015	0.3	0.585
1.35E-06	0.005	0.1	0.195	0.005	0.1	0.195
1.35E-06	0.0015	0.03	0.0585	0.0015	0.03	0.0585

7.50E-06	1	1	1	1	1	1
7.50E-06	0.015	0.3	0.585	0.015	0.3	0.585
7.50E-06	0.005	0.1	0.195	0.005	0.1	0.195
7.50E-06	0.0015	0.03	0.0585	0.0015	0.03	0.0585
7.50E-06	0.0005	0.01	0.0195	0.0005	0.01	0.0195
5.70E-06	1	1	1	1	1	1
5.70E-06	0.015	0.3	0.585	0.015	0.3	0.585
5.70E-06	0.005	0.1	0.195	0.005	0.1	0.195
1.35E-05	1	1	1	1	1	1
1.35E-05	0.015	0.3	0.585	0.015	0.3	0.585
1.35E-05	0.005	0.1	0.195	0.005	0.1	0.195
1.35E-05	0.0015	0.03	0.0585	0.0015	0.03	0.0585
4.80E-06	1	1	1	1	1	1
4.80E-06	0.015	0.3	0.585	0.015	0.3	0.585
4.80E-06	0.005	0.1	0.195	0.005	0.1	0.195
4.80E-06	0.0015	0.03	0.0585	0.0015	0.03	0.0585
4.80E-06	0.0005	0.01	0.0195	0.0005	0.01	0.0195

6.00E-07	1	1	1	1	1	1
6.00E-07	0.015	0.3	0.585	0.015	0.3	0.585
6.00E-07	0.005	0.1	0.195	0.005	0.1	0.195
6.00E-07	0.0015	0.03	0.0585	0.0015	0.03	0.0585
9.60E-07	1	1	1	1	1	1
9.60E-07	0.015	0.3	0.585	0.015	0.3	0.585
9.60E-07	0.005	0.1	0.195	0.005	0.1	0.195
1.23E-07	1	1	1	1	1	1
1.23E-07	0.015	0.3	0.585	0.015	0.3	0.585
1.23E-07	0.005	0.1	0.195	0.005	0.1	0.195
1.44E-05	1	1	1	1	1	1
1.44E-05	0.015	0.3	0.585	0.015	0.3	0.585
1.44E-05	0.005	0.1	0.195	0.005	0.1	0.195
1.44E-05	0.0015	0.03	0.0585	0.0015	0.03	0.0585

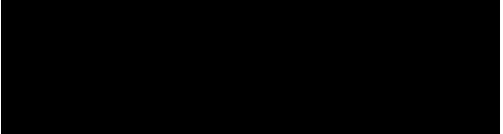
Summary of Relative Contributions

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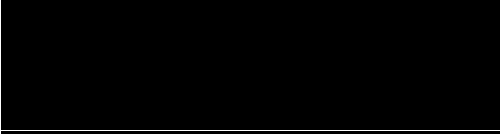
60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585
0.0005	0.01	0.0195
0.00015	0.003	0.00585
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585
0.0005	0.01	0.0195
0.00015	0.003	0.00585
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585
0.0005	0.01	0.0195
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585

1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585
0.0005	0.01	0.0195
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585
0.0005	0.01	0.0195

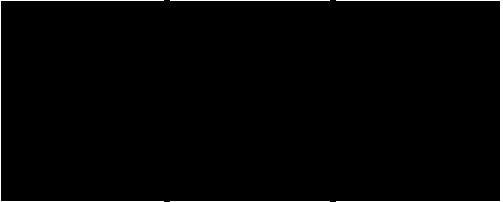
1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585



1	1	1
0.015	0.3	0.585
0.005	0.1	0.195



1	1	1
0.015	0.3	0.585
0.005	0.1	0.195



1	1	1
0.015	0.3	0.585
0.005	0.1	0.195
0.0015	0.03	0.0585



[illegible]

Participant B

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	PWR-1	3.00E-07	3.00E-07
	2 (> 1,500)		1.20E-07	1.20E-07
	3 (> 5,000)		4.80E-08	4.80E-08
	4 (> 25,000)		1.92E-08	1.92E-08
	5 (> 100,000)		7.68E-09	7.68E-09
	6 (> 500,000)		3.07E-09	3.07E-09
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	PWR-1	3.00E-07	3.00E-07
	2 (> 1,500)		1.20E-07	1.20E-07
	3 (> 5,000)		4.80E-08	4.80E-08
	4 (> 25,000)		1.92E-08	1.92E-08
	5 (> 100,000)		7.68E-09	7.68E-09
	6 (> 500,000)		3.07E-09	3.07E-09
Surge Line	1 (> 100)	PWR-2	1.50E-07	1.50E-07
	2 (> 1,500)		5.10E-08	5.10E-08
	3 (> 5,000)		1.73E-08	1.73E-08
	4 (> 25,000)		5.90E-09	5.90E-09
	5 (> 100,000)		2.00E-09	2.00E-09
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)	PWR-2	1.50E-07	1.50E-07
	2 (> 1,500)		5.10E-08	5.10E-08
	3 (> 5,000)		1.73E-08	1.73E-08
	4 (> 25,000)		5.90E-09	5.90E-09

	5 (> 100,000)		2.00E-09	2.00E-09
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	PWR-1	3.00E-07	3.00E-07
	2 (> 1,500)		1.20E-07	1.20E-07
	3 (> 5,000)		4.80E-08	4.80E-08
	4 (> 25,000)		1.92E-08	1.92E-08
	5 (> 100,000)		7.68E-09	7.68E-09
	6 (> 500,000)			
Drain Lines	1 (> 100)	PWR-1	3.00E-07	3.00E-07
	2 (> 1,500)		1.20E-07	1.20E-07
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)	PWR-3	3.00E-05	3.00E-05
	2 (> 1,500)		1.80E-05	1.80E-05
	3 (> 5,000)		1.08E-05	1.08E-05
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	PWR-1	3.00E-07	3.00E-07
	2 (> 1,500)		1.20E-07	1.20E-07
	3 (> 5,000)		4.80E-08	4.80E-08
	4 (> 25,000)		1.92E-08	1.92E-08
	5 (> 100,000)		7.68E-09	7.68E-09
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)	PWR-2	1.50E-07	1.50E-07	
	2 (> 1,500)		5.10E-08	5.10E-08	
	3 (> 5,000)		1.73E-08	1.73E-08	
	4 (> 25,000)		5.90E-09	5.90E-09	
	5 (> 100,000)				
	6 (> 500,000)				
Pressurizer Spray Lines	1 (> 100)	PWR-2	1.50E-07	1.50E-07	
	2 (> 1,500)		5.10E-08	5.10E-08	
	3 (> 5,000)		1.73E-08	1.73E-08	
	4 (> 25,000)				
	5 (> 100,000)				
	6 (> 500,000)				
Reactor Head Lines	1 (> 100)	PWR-1	3.00E-07	3.00E-07	
	2 (> 1,500)		1.20E-07	1.20E-07	
	3 (> 5,000)			4.80E-08	4.80E-08
	4 (> 25,000)				
	5 (> 100,000)				
	6 (> 500,000)				
Instrumentation Lines	1 (> 100)	PWR-1	3.00E-07	3.00E-07	
	2 (> 1,500)		1.20E-07	1.20E-07	
	3 (> 5,000)				
	4 (> 25,000)				
	5 (> 100,000)				
	6 (> 500,000)				

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
3.00E-07	0.1	1	10	0.1	1	10
1.20E-07	0.1	1	10	0.1	1	10
4.80E-08	0.1	1	10	0.1	1	10
1.92E-08	0.1	1	10	0.1	1	10
7.68E-09	0.1	1	10	0.1	1	10
3.07E-09	0.1	1	10	0.1	1	10
3.00E-07	0.02	0.2	2	0.02	0.2	2
1.20E-07	0.02	0.2	2	0.02	0.2	2
4.80E-08	0.02	0.2	2	0.02	0.2	2
1.92E-08	0.02	0.2	2	0.02	0.2	2
7.68E-09	0.02	0.2	2	0.02	0.2	2
3.07E-09	0.02	0.2	2	0.02	0.2	2
1.50E-07	0.1	1	10	0.1	1	10
5.10E-08	0.1	1	10	0.1	1	10
1.73E-08	0.1	1	10	0.1	1	10
5.90E-09	0.1	1	10	0.1	1	10
2.00E-09	0.1	1	10	0.1	1	10
1.50E-07	0.1	1	10	0.1	1	10
5.10E-08	0.1	1	10	0.1	1	10
1.73E-08	0.1	1	10	0.1	1	10
5.90E-09	0.1	1	10	0.1	1	10

2.00E-09	0.1	1	10	0.1	1	10
3.00E-07	0.02	0.2	2	0.02	0.2	2
1.20E-07	0.02	0.2	2	0.02	0.2	2
4.80E-08	0.02	0.2	2	0.02	0.2	2
1.92E-08	0.02	0.2	2	0.02	0.2	2
7.68E-09	0.02	0.2	2	0.02	0.2	2
3.00E-07	16	160	1600	16	160	1600
1.20E-07	8	80	800	8	80	800
3.00E-05	0.1	1	10	0.5	5	50
1.80E-05	0.1	1	10	0.5	5	50
1.08E-05	0.1	1	10	0.5	5	50
3.00E-07	0.01	0.1	1	0.01	0.1	1
1.20E-07	0.01	0.1	1	0.01	0.1	1
4.80E-08	0.01	0.1	1	0.01	0.1	1
1.92E-08	0.01	0.1	1	0.01	0.1	1
7.68E-09	0.01	0.1	1	0.01	0.1	1

1.50E-07	0.01	0.1	1	0.01	0.1	1
5.10E-08	0.01	0.1	1	0.01	0.1	1
1.73E-08	0.01	0.1	1	0.01	0.1	1
5.90E-09	0.01	0.1	1	0.01	0.1	1
1.50E-07	0.01	0.1	1	0.01	0.1	1
5.10E-08	0.01	0.1	1	0.01	0.1	1
1.73E-08	0.01	0.1	1	0.01	0.1	1
3.00E-07	0.01	0.1	1	0.01	0.1	1
1.20E-07	0.01	0.1	1	0.01	0.1	1
4.80E-08	0.01	0.1	1	0.01	0.1	1
3.00E-07	16	160	1600	16	160	1600
1.20E-07	8	80	800	8	80	800

Summary of Relative Contributions

[illegible]

60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.02	0.2	2
0.02	0.2	2
0.02	0.2	2
0.02	0.2	2
0.02	0.2	2
0.02	0.2	2
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10
0.1	1	10

0.1	1	10
0.02	0.2	2
0.02	0.2	2
0.02	0.2	2
0.02	0.2	2
0.02	0.2	2
16	160	1600
8	80	800
0.5	5	50
0.5	5	50
0.5	5	50
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1

0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
0.01	0.1	1
16	160	1600
8	80	800

[illegible]

Participant C

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	Dave Harris modified	6.00E-07	6.00E-07
	2 (> 1,500)		5.00E-08	5.00E-08
	3 (> 5,000)		2.00E-08	2.00E-08
	4 (> 25,000)		3.00E-09	3.00E-09
	5 (> 100,000)		1.00E-09	1.00E-09
	6 (> 500,000)		2.00E-10	2.00E-10
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	Dave Harris modified	2.00E-07	2.00E-07
	2 (> 1,500)		2.00E-08	2.00E-08
	3 (> 5,000)		7.00E-09	7.00E-09
	4 (> 25,000)		1.00E-09	1.00E-09
	5 (> 100,000)		3.00E-10	3.00E-10
	6 (> 500,000)		7.00E-11	7.00E-11
Surge Line	1 (> 100)	Dave Harris modified	6.00E-05	6.00E-05
	2 (> 1,500)		5.00E-06	5.00E-06
	3 (> 5,000)		2.00E-06	2.00E-06
	4 (> 25,000)		3.00E-07	3.00E-07
	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)	Dave Harris modified	6.00E-06	6.00E-06
	2 (> 1,500)		5.00E-07	5.00E-07
	3 (> 5,000)		2.00E-07	2.00E-07
	4 (> 25,000)		3.00E-08	3.00E-08

	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	Dave Harris modified	1.00E-04	1.00E-04
	2 (> 1,500)		1.00E-04	1.00E-04
	3 (> 5,000)		1.00E-05	1.00E-05
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Drain Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	Dave Harris modified	6.00E-06	6.00E-06
	2 (> 1,500)		5.00E-07	5.00E-07
	3 (> 5,000)		2.00E-07	2.00E-07
	4 (> 25,000)		3.00E-08	3.00E-08
	5 (> 100,000)			
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Pressurizer Spray Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Reactor Head Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Instrumentation Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
6.00E-07	0.03	1	30	0.03	1	30
5.00E-08	0.03	1	30	0.03	1	30
2.00E-08	0.03	1	30	0.03	1	30
3.00E-09	0.03	1	100	0.05	1.6666667	166.66667
1.00E-09	0.03	1	1000	0.06	2	2000
2.00E-10	0.03	1	1000	0.06	2	2000
2.00E-07	0.03	1	30	0.03	1	30
2.00E-08	0.03	1	30	0.03	1	30
7.00E-09	0.03	1	30	0.03	1	30
1.00E-09	0.03	1	100	0.06	2	200
3.00E-10	0.03	1	1000	0.07	2.3333333	2333.3333
7.00E-11	0.03	1	1000	0.0857143	2.8571429	2857.1429
6.00E-05	0.03	1	30	0.03	1	30
5.00E-06	0.03	1	30	0.03	1	30
2.00E-06	0.03	1	30	0.03	1	30
3.00E-07	0.03	1	100	0.05	1.6666667	166.66667
6.00E-06	0.03	1	30	0.03	1	30
5.00E-07	0.03	1	30	0.03	1	30
2.00E-07	0.03	1	30	0.03	1	30
3.00E-08	0.03	1	100	0.05	1.6666667	166.66667

[illegible]

Summary of Relative Contributions

[illegible]

60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
0.03	1	30
0.042	1.4	42
0.045	1.5	45
0.08	2.6666667	266.66667
0.09	3	3000
0.12	4	4000
0.03	1	30
0.045	1.5	45
0.0428571	1.4285714	42.857143
0.09	3	300
0.1	3.3333333	3333.3333
0.1285714	4.2857143	4285.7143
0.03	1	30
0.042	1.4	42
0.045	1.5	45
0.08	2.6666667	266.66667
0.03	1	30
0.042	1.4	42
0.045	1.5	45
0.08	2.6666667	266.66667

0.12	4	120
0.12	4	120
0.12	4	120
0.03	1	30
0.042	1.4	42
0.045	1.5	45
0.08	2.6666667	266.66667

[illegible]

[illegible]

Participant E

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	Cat 3: % cont. Cat 4-6: PWR-1 from Lydell hot leg		
	2 (> 1,500)			
	3 (> 5,000)		3.07E-07	9.22E-07
	4 (> 25,000)		3.67E-09	1.10E-08
	5 (> 100,000)		1.27E-09	3.80E-09
	6 (> 500,000)		4.33E-10	1.30E-09
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	% contribution		
	2 (> 1,500)			
	3 (> 5,000)		3.07E-07	9.22E-07
	4 (> 25,000)		3.67E-09	1.10E-08
	5 (> 100,000)		1.27E-09	3.80E-09
	6 (> 500,000)		4.33E-10	1.30E-09
Surge Line	1 (> 100)	% contribution		
	2 (> 1,500)		7.73E-07	2.32E-06
	3 (> 5,000)		3.07E-07	9.22E-07
	4 (> 25,000)		3.67E-09	1.10E-08
	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			

	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	PWR-3: from Lydell HPI-makeup nozzle	5.33E-06	1.60E-05
	2 (> 1,500)		7.73E-07	2.32E-06
	3 (> 5,000)		3.07E-07	9.22E-07
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Drain Lines	1 (> 100)	% contribution	5.33E-06	1.60E-05
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)	% contribution		
	2 (> 1,500)		7.73E-07	2.32E-06
	3 (> 5,000)		3.07E-07	9.22E-07
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	% contribution		
	2 (> 1,500)		7.73E-07	2.32E-06
	3 (> 5,000)		3.07E-07	9.22E-07
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Pressurizer Spray Lines	1 (> 100)	% contribution		
	2 (> 1,500)		7.73E-07	2.32E-06
	3 (> 5,000)		3.07E-07	9.22E-07
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Reactor Head Lines	1 (> 100)			
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Instrumentation Lines	1 (> 100)	% contribution	5.33E-06	1.60E-05
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
2.77E-06	0.0016667	0.08333333	0.41666667	0.00033333	0.02833333	0.33333333
3.30E-08	0.003	0.3	3	0.001	0.1	1.5
1.14E-08	0.0005	0.2	5	0.0001	0.05	1
3.90E-09	0.0001	0.1	10	0.0001	0.03	3
2.77E-06	0.0016667	0.08333333	0.41666667	0.00033333	0.02833333	0.33333333
3.30E-08	0.001	0.1	1	0.00033333	0.03333333	0.5
1.14E-08	0.0001667	0.06666667	1.66666667	3.333E-05	0.01666667	0.33333333
3.90E-09	3.333E-05	0.03333333	3.33333333	3.333E-05	0.01	1
6.96E-06	0.015	0.25	1.5	0.005	0.125	0.5
2.77E-06	0.005	0.25	1.25	0.001	0.085	1
3.30E-08	0.001	0.1	1	0.00033333	0.03333333	0.5

[illegible]

[illegible]

Summary of Relative Contributions

	25 Years of Plant Operation			40 Years of Plant Operation		
	5% LB (%)	Mid Value (%)	5% UB (%)	5% LB (%)	Mid Value (%)	5% UB (%)
	70	90	95	70	90	95
	60	90	95	60	90	95
	60	90	95	60	90	95
	60	80	90	60	80	90
	80	95	100	80	95	100
	80	95	100	80	95	100

60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
0.0003333	0.0283333	0.3333333
0.001	0.1	1.5
0.0001	0.05	1
0.0001	0.03	3
0.0003333	0.0283333	0.3333333
0.0003333	0.0333333	0.5
3.333E-05	0.0166667	0.3333333
3.333E-05	0.01	1
0.005	0.125	0.5
0.001	0.085	1
0.0003333	0.0333333	0.5

0.07	0.33	0.7
0.01	0.25	1
0.002	0.17	2
0.84	3.96	8.4
0.01	0.25	1
0.001	0.085	1
0.01	0.25	1
0.001	0.085	1

[illegible]

60 Years of Plant Operation		
5% LB (%)	Mid Value (%)	5% UB (%)
70	90	95
60	90	95
60	90	95
60	80	90
80	95	100
80	95	100

Participant G

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	PWR-1	5.13E-08	1.54E-07
	2 (> 1,500)		7.50E-09	2.25E-08
	3 (> 5,000)		2.78E-09	8.33E-09
	4 (> 25,000)		9.50E-10	2.85E-09
	5 (> 100,000)		1.71E-10	8.53E-10
	6 (> 500,000)		1.58E-11	1.58E-10
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	PWR-1	5.13E-08	1.54E-07
	2 (> 1,500)		7.50E-09	2.25E-08
	3 (> 5,000)		2.78E-09	8.33E-09
	4 (> 25,000)		9.50E-10	2.85E-09
	5 (> 100,000)		1.71E-10	8.53E-10
	6 (> 500,000)		1.58E-11	1.58E-10
Surge Line	1 (> 100)	PWR-2	3.03E-09	9.08E-09
	2 (> 1,500)		4.77E-10	1.43E-09
	3 (> 5,000)		1.67E-10	5.00E-10
	4 (> 25,000)		4.70E-11	1.41E-10
	5 (> 100,000)		4.54E-12	2.27E-11
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)	PWR-2	3.03E-09	9.08E-09
	2 (> 1,500)		4.77E-10	1.43E-09
	3 (> 5,000)		1.67E-10	5.00E-10
	4 (> 25,000)		2.82E-11	1.41E-10

	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	PWR-3	2.29E-06	6.87E-06
	2 (> 1,500)		3.83E-07	1.15E-06
	3 (> 5,000)		7.13E-08	2.14E-07
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Drain Lines	1 (> 100)	PWR-3	2.29E-06	6.87E-06
	2 (> 1,500)		3.83E-07	1.15E-06
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)	PWR-3	2.29E-06	6.87E-06
	2 (> 1,500)		3.83E-07	1.15E-06
	3 (> 5,000)		7.13E-08	2.14E-07
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	PWR-2	3.03E-09	9.08E-09
	2 (> 1,500)		4.77E-10	1.43E-09
	3 (> 5,000)		1.67E-10	5.00E-10
	4 (> 25,000)		2.82E-11	1.41E-10
	5 (> 100,000)			
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)	PWR-2	3.03E-09	9.08E-09
	2 (> 1,500)		4.77E-10	1.43E-09
	3 (> 5,000)		1.67E-10	5.00E-10
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Pressurizer Spray Lines	1 (> 100)	PWR-2	3.03E-09	9.08E-09
	2 (> 1,500)		4.77E-10	1.43E-09
	3 (> 5,000)		1.67E-10	5.00E-10
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Reactor Head Lines	1 (> 100)	PWR-3	2.29E-06	6.87E-06
	2 (> 1,500)		3.84E-07	1.15E-06
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Instrumentation Lines	1 (> 100)	PWR-3	2.29E-06	6.87E-06
	2 (> 1,500)		3.83E-07	1.15E-06
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
4.62E-07	0.1	1	10	0.1	1.14	10
6.75E-08	0.1	1	10	0.1	1.14	10
2.50E-08	0.1	1	10	0.1	1.14	10
8.55E-09	0.1	1	10	0.1	1.14	10
4.27E-09	0.1	1	10	0.1	1.14	10
1.58E-09	0.1	1	10	0.1	1.14	10
4.62E-07	0.1	0.8	10	0.1	0.91	10
6.75E-08	0.1	0.8	10	0.1	0.91	10
2.50E-08	0.1	0.8	10	0.1	0.91	10
8.55E-09	0.1	0.8	10	0.1	0.91	10
4.27E-09	0.1	0.8	10	0.1	0.91	10
1.58E-09	0.1	0.8	10	0.1	0.91	10
2.72E-08	0.1	1	10	0.1	1.16	10
4.29E-09	0.1	1	10	0.1	1.16	10
1.50E-09	0.1	1	10	0.1	1.16	10
4.23E-10	0.1	1	10	0.1	1.16	10
1.14E-10	0.1	1	10	0.1	1.16	10
2.72E-08	0.2	0.5	1.5	0.2	0.58	1.7346
4.29E-09	0.2	0.5	1.5	0.2	0.58	1.7346
1.50E-09	0.2	0.5	1.5	0.2	0.58	1.7346
7.05E-10	0.1	0.5	2.5	0.1	0.58	2.891

Summary of Relative Contributions

[illegible]

60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
0.1	1.21	10
0.1	1.21	10
0.1	1.21	10
0.1	1.21	10
0.1	1.21	10
0.1	1.21	10
0.1	0.97	10
0.1	0.97	10
0.1	0.97	10
0.1	0.97	10
0.1	0.97	10
0.1	0.97	10
0.1	1.23	10
0.1	1.23	10
0.1	1.23	10
0.1	1.23	10
0.12335	1.23	10
0.2	0.62	1.85025
0.2	0.62	1.85025
0.2	0.62	1.85025
0.1	0.62	3.08375

0.3	0.62	3
0.3	0.62	3
0.3	0.62	3
0.3	1.23	3
0.3	1.23	3
0.3	0.31	3
0.3	0.31	3
0.3	0.31	3
0.7	2.05	6.1482
0.7	2.05	6.1482
0.7	2.05	6.1482
0.4	2.05	10.247

0.3	0.99	2.9604
0.3	0.99	2.9604
0.3	0.99	2.9604
0.1	0.31	0.92223
0.1	0.31	0.92223
0.1	0.31	0.92223
0.1	0.31	0.92223
0.1	0.31	0.92223
0.4	1.23	3.68892
0.4	1.23	3.68892

[illegible]

Participant H

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	modified hot leg	1.48E-07	4.45E-07
	2 (> 1,500)		2.03E-08	6.10E-08
	3 (> 5,000)		7.33E-09	2.20E-08
	4 (> 25,000)		2.60E-09	7.80E-09
	5 (> 100,000)		8.83E-10	2.65E-09
	6 (> 500,000)		2.93E-10	8.80E-10
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	modified hot leg	1.48E-07	4.45E-07
	2 (> 1,500)		2.03E-08	6.10E-08
	3 (> 5,000)		7.33E-09	2.20E-08
	4 (> 25,000)		2.60E-09	7.80E-09
	5 (> 100,000)		8.83E-10	2.65E-09
	6 (> 500,000)		2.93E-10	8.80E-10
Surge Line	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)		1.15E-09	3.45E-09
	4 (> 25,000)		3.42E-10	1.03E-09
	5 (> 100,000)		9.08E-11	2.73E-10
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)		1.15E-09	3.45E-09
	4 (> 25,000)		3.42E-10	1.03E-09

	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)		1.15E-09	3.45E-09
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Drain Lines	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)		1.15E-09	3.45E-09
	4 (> 25,000)		3.42E-10	1.025E-09
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)		1.15E-09	3.45E-09
	4 (> 25,000)		3.42E-10	1.03E-09
	5 (> 100,000)			
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)		1.15E-09	3.45E-09
	4 (> 25,000)		3.42E-10	1.03E-09
	5 (> 100,000)			
	6 (> 500,000)			
Pressurizer Spray Lines	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)		1.15E-09	3.45E-09
	4 (> 25,000)		3.42E-10	1.025E-09
	5 (> 100,000)			
	6 (> 500,000)			
Reactor Head Lines	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Instrumentation Lines	1 (> 100)	modified surge line	2.42E-08	7.25E-08
	2 (> 1,500)		3.25E-09	9.75E-09
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
1.34E-06	0.5	5	50	2.5	25	250
1.83E-07	0.2	2	20	1	10	100
6.60E-08	0.1	1	10	0.5	5	50
2.34E-08	0.1	1	10	0.5	5	50
7.95E-09	0.1	1	10	0.5	5	50
2.64E-09	0.1	1	10	0.5	5	50
1.34E-06	0.01	0.1	1	0.1	1	10
1.83E-07	0.002	0.02	0.2	0.1	1	10
6.60E-08	0.0002	0.002	0.02	0.01	0.1	1
2.34E-08	0.0002	0.002	0.02	0.01	0.1	1
7.95E-09	0.0002	0.002	0.02	0.01	0.1	1
2.64E-09	0.0001	0.001	0.01	0.01	0.1	1
2.18E-07	1	10	100	1	10	100
2.93E-08	1	10	100	1	10	100
1.04E-08	1	10	100	1	10	100
3.08E-09	1	10	100	1	10	100
8.18E-10	1	10	100	2	20	200
2.18E-07	0.01	0.1	1	0.2	2	20
2.93E-08	0.025	0.25	2.5	0.25	2.5	25
1.04E-08	0.05	0.5	5	0.5	5	50
3.08E-09	0.1	1	10	1	10	100

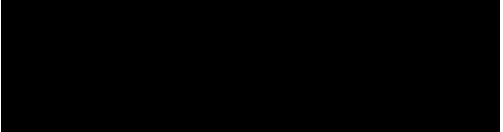
Summary of Relative Contributions

[illegible]

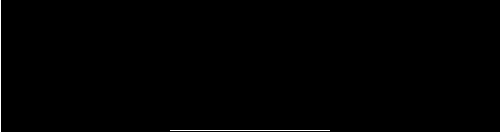
60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
2.5	250	25000
1	100	10000
0.25	25	2500
0.25	25	2500
0.25	25	2500
0.25	25	2500
0.1	10	1000
0.02	2	200
0.02	2	200
0.02	2	200
0.02	2	200
0.1	10	1000
2	200	20000
1	100	10000
1	100	10000
1	100	10000
1	100	10000
0.4	40	4000
0.25	25	2500
0.5	50	5000
1	100	10000

1	100	10000
1	100	10000
1	100	10000
10	1000	100000
5	500	50000
5	500	50000
5	500	50000
5	500	50000
5	500	50000
1	100	10000
1	100	10000
1	100	10000
1	100	10000

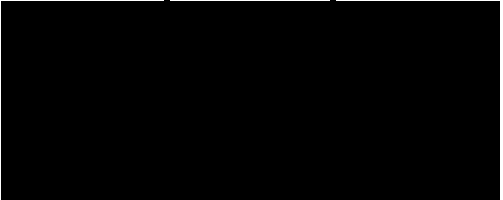
5	500	50000
2.5	250	25000
1.25	125	12500
1.25	125	12500



1	100	10000
0.5	50	5000
2.5	250	25000
1	100	10000



0.5	50	5000
0.25	25	2500



5	500	50000
2.5	250	25000



[illegible]

Participant I

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	Cat 6: German upper bound		
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)		4.00E-11	2.00E-09
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	Cat 6: German upper bound		
	2 (> 1,500)			
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)		4.00E-11	2.00E-09
Surge Line	1 (> 100)	Cat 2: % cont. Cat 4: % cont. Cat 5: German upper bound		
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)			
	4 (> 25,000)		1.77E-08	5.30E-08
	5 (> 100,000)		2.50E-10	5.00E-09
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)	Cat 2: % cont. Cat 3: % cont. Cat 4: % cont. Cat 5: German upper bound		
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)		9.00E-07	2.70E-06
	4 (> 25,000)		1.77E-08	5.30E-08

	5 (> 100,000)		2.50E-10	5.00E-09
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	Cat 2: % cont. Cat 4: % cont.		
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)			
	4 (> 25,000)		1.77E-08	5.30E-08
	5 (> 100,000)			
	6 (> 500,000)			
Drain Lines	1 (> 100)	Cat 1, 2: directly det.	9.00E-06	2.70E-05
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)	Cat 1: dir. det. Cat 2: % cont. Cat3:HPI-Gal. Cat4: HL-Gal.	9.00E-06	2.70E-05
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)		9.00E-07	2.70E-06
	4 (> 25,000)		1.77E-08	5.30E-08
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	Cat 2: % cont. Cat 3: % cont. Cat 4: % cont. Cat 5: German upper bound		
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)		9.00E-07	2.70E-06
	4 (> 25,000)		1.77E-08	5.30E-08
	5 (> 100,000)		2.50E-10	5.00E-09
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)	Cat 1: dir. det. Cat 2: % cont. Cat 3: % cont. Cat 4: % cont.	9.00E-06	2.70E-05
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)		9.00E-07	2.70E-06
	4 (> 25,000)		1.77E-08	5.30E-08
	5 (> 100,000)			
	6 (> 500,000)			
Pressurizer Spray Lines	1 (> 100)	Cat 2: % cont. Cat 3: % cont. Cat 4: % cont.		
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)		9.00E-07	2.70E-06
	4 (> 25,000)		1.77E-08	5.30E-08
	5 (> 100,000)			
	6 (> 500,000)			
Reactor Head Lines	1 (> 100)	Cat 1, 2: directly det.	9.00E-06	2.70E-05
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Instrumentation Lines	1 (> 100)	Cat 1, 2: directly det.	9.00E-06	2.70E-05
	2 (> 1,500)		2.70E-06	8.10E-06
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
1.00E-07	0.5	0.5	0.5	0.5	0.5	0.5
1.00E-07	0.5	0.5	0.5	0.5	0.5	0.5
2.43E-05	0	0	0	0	0	0
1.59E-07	0.3	3	30	0.3	3	30
1.00E-07	0.3333333	0.3333333	0.3333333	0.3333333	0.3333333	0.3333333
2.43E-05	0	0	0	0	0	0
8.10E-06	0	0	0	0	0	0
1.59E-07	0.1	1	10	0.1	1	10

[illegible]

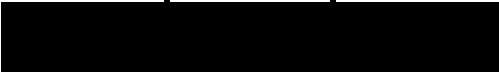
8.10E-05	0	0	0	0	0	0
2.43E-05	5.0928382	50.928382	229.17772	5.0928382	76.392573	458.35544
8.10E-06	0	0	0	0	0	0
1.59E-07	0.2	2	20	0.2	2	20
2.43E-05	1.8155025	18.155025	81.697613	1.8155025	27.232538	163.39523
8.10E-06	0.3	3	30	0.3	3	30
1.59E-07	0.4	4	40	0.4	4	40
8.10E-05	1	10	50	1	20	100
2.43E-05	1.1111111	11.111111	50	1.1111111	16.666667	100
8.10E-05	4	40	200	4	80	400
2.43E-05	4.4444444	44.444444	200	4.4444444	66.666667	400

Summary of Relative Contributions

	25 Years of Plant Operation			40 Years of Plant Operation		
	5% LB (%)	Mid Value (%)	5% UB (%)	5% LB (%)	Mid Value (%)	5% UB (%)
	70	80	95	70	80	95
	85	90	99	85	90	99
	75	80	95	75	80	95
	90	95	99	90	95	99
	80	90	99	80	90	99
	100	100	100	100	100	100

60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
0.5	0.5	0.5
0.5	0.5	0.5
1.6136468	16.136468	161.36468
0.3	3	30
0.3333333	0.3333333	0.3333333
5.186722	51.86722	518.6722
0.15	1.5	15
0.1	1	10

0.3333333	0.3333333	0.3333333
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6.8003688	68.003688	680.03688
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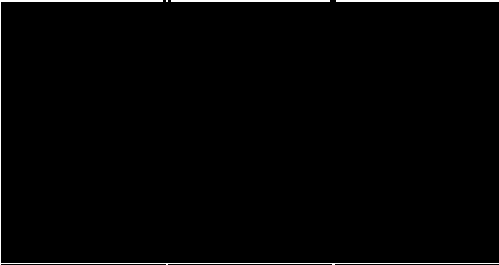
0.1	1	10
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17.5	175	1750
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22.222222	222.22222	2222.2222
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3.75	37.5	375
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2.8815122	28.815122	288.15122
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0.3	3	30
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0.4	4	40
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5.3019825	53.019825	530.19825
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0.3	3	30
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0.4	4	40
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0.3333333	0.3333333	0.3333333
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7.5	75	750
24.896266	248.96266	2489.6266
0.15	1.5	15
0.2	2	20
8.8750576	88.750576	887.50576
0.3	3	30
0.4	4	40
3.75	37.5	375
4.4444444	44.444444	444.44444
17.5	175	1750
17.777778	177.77778	1777.7778

60 Years of Plant Operation		
5% LB (%)	Mid Value (%)	5% UB (%)
70	80	95
85	90	99
75	80	95
90	95	99
80	90	99
100	100	100

Participant J

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	Participant calculated his own numbers directly	9.25E-12	9.80E-11
	2 (> 1,500)		5.78E-13	1.03E-11
	3 (> 5,000)		1.40E-13	3.21E-12
	4 (> 25,000)		1.53E-14	4.82E-13
	5 (> 100,000)		2.42E-15	6.99E-14
	6 (> 500,000)		1.44E-17	6.28E-16
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)	Participant calculated his own numbers directly	9.32E-12	7.58E-11
	2 (> 1,500)		5.19E-13	9.05E-12
	3 (> 5,000)		1.19E-13	2.87E-12
	4 (> 25,000)		1.28E-14	4.51E-13
	5 (> 100,000)		2.03E-15	6.50E-14
	6 (> 500,000)		2.61E-17	1.16E-15
Surge Line	1 (> 100)	Participant calculated his own numbers directly	6.84E-12	6.07E-11
	2 (> 1,500)		5.07E-13	6.14E-12
	3 (> 5,000)		1.20E-13	2.04E-12
	4 (> 25,000)		1.63E-14	4.45E-13
	5 (> 100,000)		2.58E-15	8.52E-14
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)	Participant calculated his own numbers directly	1.20E-10	1.39E-09
	2 (> 1,500)		7.64E-12	1.41E-10
	3 (> 5,000)		1.86E-12	4.32E-11
	4 (> 25,000)		1.97E-13	6.26E-12

	5 (> 100,000)		3.07E-14	8.78E-13
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)	Participant calculated his own numbers directly	1.46E-08	2.72E-07
	2 (> 1,500)		4.65E-10	1.41E-08
	3 (> 5,000)		1.10E-10	4.60E-09
	4 (> 25,000)		9.72E-12	6.77E-10
	5 (> 100,000)			
	6 (> 500,000)			
Drain Lines	1 (> 100)	Participant calculated his own numbers	2.65E-07	5.11E-06
	2 (> 1,500)		5.25E-09	2.23E-07
	3 (> 5,000)		1.09492E-09	5.80117E-08
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)	Participant calculated his own numbers directly	4.16E-09	7.72E-08
	2 (> 1,500)		1.33E-10	4.03E-09
	3 (> 5,000)		3.15E-11	1.31E-09
	4 (> 25,000)		2.79843E-12	1.92969E-10
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)	Participant calculated his own numbers directly	1.23E-10	1.42E-09
	2 (> 1,500)		7.81E-12	1.44E-10
	3 (> 5,000)		1.90E-12	4.42E-11
	4 (> 25,000)		2.02E-13	6.40E-12
	5 (> 100,000)		3.14E-14	8.98E-13
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)	Participant calculated his own numbers directly	1.12E-07	2.13E-06
	2 (> 1,500)		2.64E-09	9.85E-08
	3 (> 5,000)		5.83E-10	2.79E-08
	4 (> 25,000)		2.37E-11	1.65E-09
	5 (> 100,000)		3.94553E-15	1.50E-13
	6 (> 500,000)			
Pressurizer Spray Lines	1 (> 100)	Participant calculated his own numbers directly	1.28E-08	2.38E-07
	2 (> 1,500)		4.10E-10	1.24E-08
	3 (> 5,000)		9.72E-11	4.04E-09
	4 (> 25,000)		8.61917E-12	5.94345E-10
	5 (> 100,000)			
	6 (> 500,000)			
Reactor Head Lines	1 (> 100)	Participant calculated his own numbers	6.46E-08	1.24E-06
	2 (> 1,500)		1.28E-09	5.43E-08
	3 (> 5,000)		2.67E-10	1.41E-08
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Instrumentation Lines	1 (> 100)	Participant calculated his own numbers	2.79E-07	5.38E-06
	2 (> 1,500)		5.52E-09	2.35E-07
	3 (> 5,000)		1.15205E-09	6.10384E-08
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
2.88E-09	1	1	1	31.93935	31.93935	31.93935
7.61E-10	1	1	1	52.432608	52.432608	52.432608
3.38E-10	1	1	1	60.379733	60.379733	60.379733
9.75E-11	1	1	1	74.961359	74.961359	74.961359
1.93E-11	1	1	1	98.110703	98.110703	98.110703
7.56E-13	1	1	1	113.81091	113.81091	113.81091
2.04E-09	1	1	1	34.113046	34.113046	34.113046
5.69E-10	1	1	1	53.282838	53.282838	53.282838
2.69E-10	1	1	1	60.542087	60.542087	60.542087
8.00E-11	1	1	1	72.880069	72.880069	72.880069
1.82E-11	1	1	1	93.964279	93.964279	93.964279
1.58E-12	1	1	1	111.83683	111.83683	111.83683
1.82E-09	1	1	1	38.186675	38.186675	38.186675
5.90E-10	1	1	1	70.894222	70.894222	70.894222
2.67E-10	1	1	1	84.216882	84.216882	84.216882
1.00E-10	1	1	1	101.46318	101.46318	101.46318
3.04E-11	1	1	1	115.29818	115.29818	115.29818
4.20E-08	1	1	1	31.031007	31.031007	31.031007
1.08E-08	1	1	1	51.226161	51.226161	51.226161
4.74E-09	1	1	1	58.891527	58.891527	58.891527
1.34E-09	1	1	1	73.771593	73.771593	73.771593

2.42E-10	1	1	1	97.983769	97.983769	97.983769
6.82E-06	1	1	1	23.077936	23.077936	23.077936
1.39E-06	1	1	1	40.168865	40.168865	40.168865
7.06E-07	1	1	1	42.899452	42.899452	42.899452
1.81E-07	1	1	1	46.787925	46.787925	46.787925
1.60E-04	1	1	1	24.476329	24.476329	24.476329
3.24E-05	1	1	1	35.418375	35.418375	35.418375
6.81789E-06	1	1	1	39.295139	39.295139	39.295139
1.93E-06	1	1	1	23.109548	23.109548	23.10955
3.96E-07	1	1	1	40.261667	40.261667	40.261667
2.00E-07	1	1	1	43.062464	43.062464	43.062464
5.13024E-08	1	1	1	46.978428	46.978428	46.978428
4.29E-08	1	1	1	31.031007	31.031007	31.031007
1.11E-08	1	1	1	51.226161	51.226161	51.226161
4.84E-09	1	1	1	58.891527	58.891527	58.891527
1.37E-09	1	1	1	73.771593	73.771593	73.771593
2.47E-10	1	1	1	97.983769	97.983769	97.983769

6.26E-05	1	1	1	24.042725	24.042725	24.042725
1.27E-05	1	1	1	37.08596	37.08596	37.08596
3.68E-06	1	1	1	40.756487	40.756487	40.756487
4.40E-07	1	1	1	46.817929	46.817929	46.817929
2.86303E-11	1	1	1	84.53535	84.53535	84.53535
5.96E-06	1	1	1	23.109548	23.109548	23.10955
1.22E-06	1	1	1	40.261667	40.261667	40.261667
6.18E-07	1	1	1	43.062464	43.062464	43.062464
1.58011E-07	1	1	1	46.978428	46.978428	46.978428
3.90E-05	1	1	1	24.476329	24.476329	24.476329
7.88E-06	1	1	1	35.418375	35.418375	35.418375
1.66E-06	1	1	1	39.295139	39.295139	39.295139
1.69E-04	1	1	1	24.476329	24.476329	24.476329
3.41E-05	1	1	1	35.418375	35.418375	35.418375
7.1736E-06	1	1	1	39.295139	39.295139	39.295139

Summary of Relative Contributions

[illegible]

60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
12303.388	12303.388	12303.388
24117.076	24117.076	24117.076
28649.164	28649.164	28649.164
36998.294	36998.294	36998.294
50235.612	50235.612	50235.612
49396.011	49396.011	49396.011
13191.785	13191.785	13191.785
23751.537	23751.537	23751.537
27705.945	27705.945	27705.945
34423.61	34423.61	34423.61
46017.607	46017.607	46017.607
48480.681	48480.681	48480.681
15614.856	15614.856	15614.856
33458.865	33458.865	33458.865
40727.207	40727.207	40727.207
50136.142	50136.142	50136.142
57683.994	57683.994	57683.994
11932.145	11932.145	11932.145
23874.637	23874.637	23874.637
28424.469	28424.469	28424.469
37326.638	37326.638	37326.638

51748.78	51748.78	51748.78
5761.8683	5761.8683	5761.8683
18383.092	18383.092	18383.092
20406.831	20406.831	20406.831
23281.273	23281.273	23281.273
5090.3823	5090.3823	5090.3823
14263.44	14263.44	14263.44
17513.452	17513.452	17513.452
5787.8421	5787.8421	5787.8421
18432.219	18432.219	18432.219
20496.94	20496.94	20496.94
23383.75	23383.75	23383.75
11932.145	11932.145	11932.145
23874.637	23874.637	23874.637
28424.469	28424.469	28424.469
37326.638	37326.638	37326.638
51748.78	51748.78	51748.78

5300.6012	5300.6012	5300.6012
15707.85	15707.85	15707.85
18683.972	18683.972	18683.972
23297.412	23297.412	23297.412
44952.542	44952.542	44952.542
5787.8421	5787.8421	5787.8425
18432.219	18432.219	18432.219
20496.94	20496.94	20496.94
23383.75	23383.75	23383.75
5090.3823	5090.3823	5090.3823
14263.44	14263.44	14263.44
17513.452	17513.452	17513.452
5090.3823	5090.3823	5090.3823
14263.44	14263.44	14263.44
17513.452	17513.452	17513.452

[illegible]

Participant L

Piping System	LOCA Category (gpm)	Base Case	LOCA Frequency for S	
			5% LB (cal-yr ⁻¹)	Mid Value (cal-yr ⁻¹)
Reactor Coolant Piping: Hot Leg	1 (> 100)	modified from total LOCA frequencies	2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)		3.84E-07	1.92E-06
	4 (> 25,000)		1.54E-07	7.68E-07
	5 (> 100,000)		6.40E-08	3.20E-07
	6 (> 500,000)		3.20E-11	3.20E-10
Reactor Coolant Piping: Cold/Crossover Legs	1 (> 100)		2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)		3.84E-07	1.92E-06
	4 (> 25,000)		1.54E-07	7.68E-07
	5 (> 100,000)		6.40E-08	3.20E-07
	6 (> 500,000)		3.20E-11	3.20E-10
Surge Line	1 (> 100)		2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)		3.84E-07	1.92E-06
	4 (> 25,000)		1.54E-07	7.68E-07
	5 (> 100,000)		6.40E-08	3.20E-07
	6 (> 500,000)			
Safety Injection System: Accumulator Lines	1 (> 100)		2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)		3.84E-07	1.92E-06
	4 (> 25,000)		1.54E-07	7.68E-07

	5 (> 100,000)			
	6 (> 500,000)			
Safety Injection System: Direct Volume Injection Lines	1 (> 100)		2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)		3.84E-07	1.92E-06
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Drain Lines	1 (> 100)		2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)			
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Chemical & Volume Control System	1 (> 100)		2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)		3.84E-07	1.92E-06
	4 (> 25,000)			
	5 (> 100,000)			
	6 (> 500,000)			
Residual Heat Removal System	1 (> 100)		2.62E-06	9.60E-06
	2 (> 1,500)		1.58E-06	6.34E-06
	3 (> 5,000)		3.84E-07	1.92E-06
	4 (> 25,000)		1.54E-07	7.68E-07
	5 (> 100,000)			
	6 (> 500,000)			

Safety Relief Valve Lines	1 (> 100)		2.62E-06	9.60E-06		
	2 (> 1,500)		1.58E-06	6.34E-06		
	3 (> 5,000)		3.84E-07	1.92E-06		
	4 (> 25,000)		1.54E-07	7.68E-07		
	5 (> 100,000)					
	6 (> 500,000)					
Pressurizer Spray Lines	1 (> 100)		2.62E-06	9.60E-06		
	2 (> 1,500)		1.58E-06	6.34E-06		
	3 (> 5,000)		3.84E-07	1.92E-06		
	4 (> 25,000)					
	5 (> 100,000)					
	6 (> 500,000)					
Reactor Head Lines	1 (> 100)		2.62E-06	9.60E-06		
	2 (> 1,500)		1.58E-06	6.34E-06		
	3 (> 5,000)					
	4 (> 25,000)					
	5 (> 100,000)					
	6 (> 500,000)					
Instrumentation Lines	1 (> 100)		2.62E-06	9.60E-06		
	2 (> 1,500)		1.58E-06	6.34E-06		
	3 (> 5,000)					
	4 (> 25,000)					
	5 (> 100,000)					
	6 (> 500,000)					

LOCA Category (gpm)				
1				
2				
3				
4				
5				
6				

System	25 Years of Plant Operation			40 Years of Plant Operation		
5% UB (cal yr ⁻¹)	5% LB Ratio	Mid Value Ratio	5% UB Ratio	5% LB Ratio	Mid Value Ratio	5% UB Ratio
3.52E-05	0.0101523	0.0101523	0.0101523	0.0317766	0.0317766	0.0317766
2.53E-05	0.0101523	0.0101523	0.0101523	0.0317766	0.0317766	0.0317766
9.60E-06	0.0171491	0.0171491	0.0171491	0.0536768	0.0536768	0.0536768
3.84E-06	0.0699964	0.0699964	0.0699964	0.2190889	0.2190889	0.2190889
1.60E-06	0.7691917	0.7691917	0.7691917	2.40757	2.40757	2.40757
3.20E-09	0.833291	0.833291	0.833291	2.6082008	2.6082008	2.6082008
3.52E-05	0.0020305	0.0020305	0.0020305	0.0063553	0.0063553	0.0063553
2.53E-05	0.0020305	0.0020305	0.0020305	0.0063553	0.0063553	0.0063553
9.60E-06	0.0034298	0.0034298	0.0034298	0.0107354	0.0107354	0.0107354
3.84E-06	0.0139993	0.0139993	0.0139993	0.0438178	0.0438178	0.0438178
1.60E-06	0.1538383	0.1538383	0.1538383	0.481514	0.481514	0.481514
3.20E-09	0.1666582	0.1666582	0.1666582	0.5216402	0.5216402	0.5216402
3.52E-05	0.0010152	0.0010152	0.0010152	0.0031777	0.0031777	0.0031777
2.53E-05	0.0010152	0.0010152	0.0010152	0.0031777	0.0031777	0.0031777
9.60E-06	0.0017149	0.0017149	0.0017149	0.0053677	0.0053677	0.0053677
3.84E-06	0.0069996	0.0069996	0.0069996	0.0219089	0.0219089	0.0219089
1.60E-06	0.0769192	0.0769192	0.0769192	0.240757	0.240757	0.240757
3.52E-05	0.0304569	0.0304569	0.0304569	0.0953299	0.0953299	0.0953299
2.53E-05	0.0304569	0.0304569	0.0304569	0.0953299	0.0953299	0.0953299
9.60E-06	0.0514474	0.0514474	0.0514474	0.1610303	0.1610303	0.1610303
3.84E-06	0.2099893	0.2099893	0.2099893	0.6572666	0.6572666	0.6572666

3.52E-05	0.1522843	0.1522843	0.1522843	0.4766497	0.4766497	0.4766497
2.53E-05	0.1522843	0.1522843	0.1522843	0.4766497	0.4766497	0.4766497
9.60E-06	0.2572369	0.2572369	0.2572369	0.8051516	0.8051516	0.8051516
3.52E-05	0.1116751	0.1116751	0.1116751	0.3495431	0.3495431	0.3495431
2.53E-05	0.1116751	0.1116751	0.1116751	0.3495431	0.3495431	0.3495431
3.52E-05	0.2741117	0.2741117	0.2741117	0.8579695	0.8579695	0.8579695
2.53E-05	0.2741117	0.2741117	0.2741117	0.8579695	0.8579695	0.8579695
9.60E-06	0.4630265	0.4630265	0.4630265	1.4492729	1.4492729	1.4492729
3.52E-05	0.0913706	0.0913706	0.0913706	0.2859898	0.2859898	0.2859898
2.53E-05	0.0913706	0.0913706	0.0913706	0.2859898	0.2859898	0.2859898
9.60E-06	0.1543422	0.1543422	0.1543422	0.483091	0.483091	0.483091
3.84E-06	0.629968	0.629968	0.629968	1.9717998	1.9717998	1.9717998

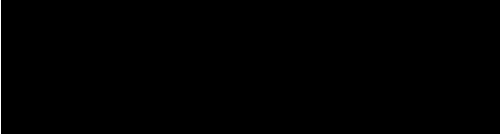
Summary of Relative Contributions

[illegible]

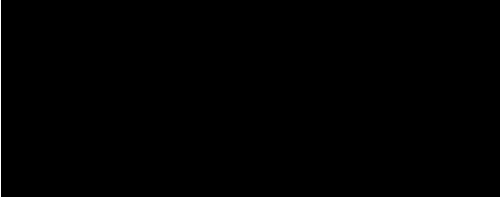
60 Years of Plant Operation		
5% LB Ratio	Mid Value Ratio	5% UB Ratio
0.0476142	0.0476142	0.0476142
0.0476142	0.0476142	0.0476142
0.0804294	0.0804294	0.0804294
0.3282833	0.3282833	0.3282833
3.607509	3.607509	3.607509
3.9081348	3.9081348	3.9081348
0.0095228	0.0095228	0.0095228
0.0095228	0.0095228	0.0095228
0.0160859	0.0160859	0.0160859
0.0656567	0.0656567	0.0656567
0.7215018	0.7215018	0.7215018
0.781627	0.781627	0.781627
0.0047614	0.0047614	0.0047614
0.0047614	0.0047614	0.0047614
0.0080429	0.0080429	0.0080429
0.0328283	0.0328283	0.0328283
0.3607509	0.3607509	0.3607509
0.1428426	0.1428426	0.1428426
0.1428426	0.1428426	0.1428426
0.2412882	0.2412882	0.2412882
0.98485	0.98485	0.98485

0.7142132	0.7142132	0.7142132
0.7142132	0.7142132	0.7142132
1.2064412	1.2064412	1.2064412
0.5237563	0.5237563	0.5237563
0.5237563	0.5237563	0.5237563
1.2855838	1.2855838	1.2855838
1.2855838	1.2855838	1.2855838
2.1715942	2.1715942	2.1715942
0.4285279	0.4285279	0.4285279
0.4285279	0.4285279	0.4285279
0.7238647	0.7238647	0.7238647
2.9545499	2.9545499	2.9545499

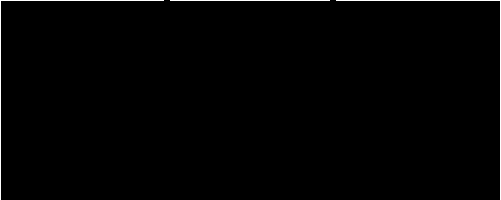
0.0476142	0.0476142	0.0476142
0.0476142	0.0476142	0.0476142
0.0804294	0.0804294	0.0804294
0.3282833	0.3282833	0.3282833



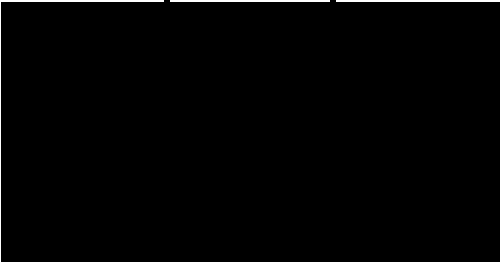
0.0952284	0.0952284	0.0952284
0.0952284	0.0952284	0.0952284
0.1608588	0.1608588	0.1608588



0.0095228	0.0095228	0.0095228
0.0095228	0.0095228	0.0095228



1.3808122	1.3808122	1.3808122
1.3808122	1.3808122	1.3808122



[illegible]

