

Room	L1(ft)	L2(ft)	A(sq-ft)	A(sq-m)	L3 (ft)	L4(ft)	L5(ft)
1001	76	33	2508	233			
1001A	38	40	1520	141			
1002	24	33	792	74			
1002A	15	9	135	13			
1003	44	40	1760	164			
1004	32	40	1280	119			
1005A	138	8	1104	103			
1005B	7	72	728	68	28	8	
1005C	6	70	552	51	9	6	6
1005D	53	8	720	67	12	12	8
1005E	96	13	1248	116			
1005F	133	8	1176	109	14	8	
1005G	7	64	568	53	12	10	
1005H	8	55	624	58	8	23	
1005J	217	7	1519	141			
1007	60	78	4413	410	43	9	15
1007A	43	9	387	36			
1008	30	59	1770	164			
1008A	30	9	270	25			
1009	10	50	500	46			
1010	24	58	1392	129			
1011	58	58	3364	313			
1012	28	48	1584	147	20	12	
1013	32	59	1768	164	12	10	
1013A	12	10	120	11			
1014	45	92	4140	385			
1015	83	86	14276	1326	*Area multiplied by two - Room ext		
1016	36	10	360	33			
1017	40	10	400	37			
1018	82	28	2296	213			
1019	82	28	2296	213			
1020	36	10	360	33			
1021	30	11	330	31			
1022	30	10	300	28			
1023	30	28	840	78			
1024	30	28	840	78			
1025	30	10	300	28			
1026	84	89	23070	2143	6	17	7
1027	40	92	3680	342			
1028	57	78	4558	423	14	8	
1029	30	59	1770	164			
1029A	30	9	270	25			
1030	10	50	500	46			
1031	25	60	1500	139			
1032	57	58	3306	307			
1033	28	46	1554	144	19	14	
1034	32	16	512	48			
1035	40	44	1984	184	32	7	
1036	33	78	2574	239			
1036A	38	59	2242	208			
1036B	10	22	220	20			

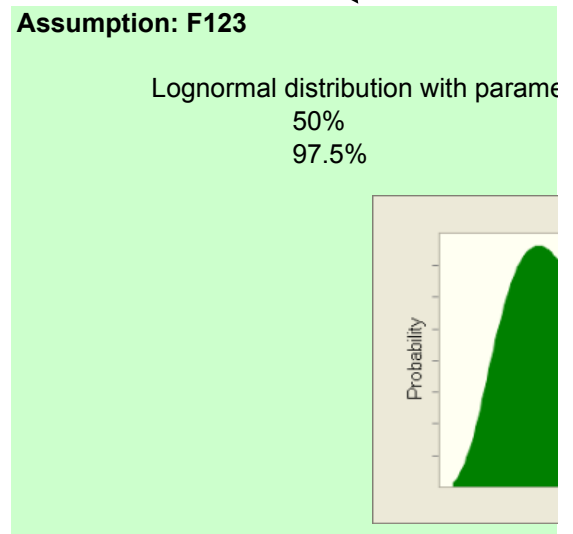
1037	25	22	550	51			
1038	32	13	416	39			
1039	15	28	420	39			
1040	15	28	420	39			
1041	32	16	512	48			
1042	15	30	450	42			
1043	13	30	390	36			
1044	10	7	210	20	*Area multiplied by three - Room e		
1044A	10	8	80	7			
1045	32	16	292	27	10	7	10
1046	10	7	70	7			
1047	17	16	816	76	*Area multiplied by three - Room e		
1047A	28	35	708	66	17	16	
1048	28	16	448	42			
1049	17	16	816	76	*Area multiplied by three - Room e		
1049A	28	35	708	66	17	16	
1050	28	16	448	42			
1051	15	23	345	32			
1052	15	23	345	32			
1053	15	20	300	28			
1054	15	21	315	29			
1201 - 1210	76	32	2432	226			
1211 - 1213 & 1215 - 1222	43	58	3174	295	34	20	
1214	32	18	576	54			
2001	58	78	4659	433	15	9	
2002	29	68	1972	183			
2003	36	69	2276	211	13	16	
2003A	13	16	208	19			
2004	230	90	41400	3846	*Area multiplied by two - Room ext		
2005	75	78	5500	511	25	14	
2005A	25	14	350	33			
2006A	138	7	966	90			
2006B	76	10	760	71			
2006D	88	11	968	90			
2006E	80	7	560	52			
2006F	68	6	408	38			
2006G	173	8	1384	129			
2006H	72	6	432	40			
2006J	87	11	957	89			
2006K	8	82	784	73	16	8	
2007	36	90	2664	247	24	12	24
2007A	24	12	288	27			
2007B	24	12	288	27			
2008	58	78	4660	433	17	8	
2010	29	69	2001	186			
2011	36	67	2412	224			
2011A	17	12	204	19			
2012	78	68	5304	493			
2038	33	13	429	40			
2039	15	30	450	42			
2040	15	30	450	42			
2041	32	16	512	48			

2042	15	30	450	42		
2043	13	30	390	36		
2045	15	8	160	15	5	8
2045A	15	8	160	15	5	8
2046	9	7	63	6		
2048	28	16	448	42		
2050	29	16	464	43		
3001	110	8	1298	121	38	11
3002	36	11	652	61	8	32
3038	33	13	429	40		
3041	32	16	512	48		
3045	15	8	160	15	5	8
3045A	15	8	160	15	5	8
3046	10	7	70	7		
3048	28	16	448	42		
3050	29	16	464	43		

Total Area (sq-m)
 Ignition Frequency (per sq-m/yr)
 Ignition Frequency (per yr)
 Ignition Frequency (50 years - preclosure period)

19611
 3.77E-06
 7.40E-02
 3.70E+00

50% Value
 3.77E-06



L6(ft) L7(ft) L8(ft)

13
19

8

ends two floors

16 *Area (x3) - Room extends three floors

xtends three floors

7 10 8

xtends three floors

xtends three floors

ends two floors

97.5% Value
9.06E-06

Parameters:

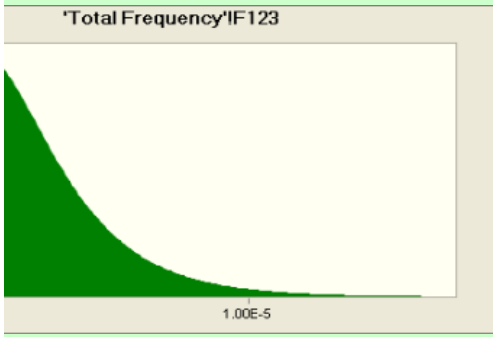
3.77E-6

9.06E-6

(=G123)

(=I123)

Cell: F123



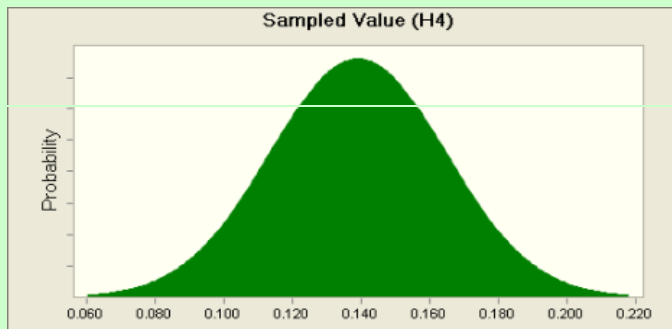
Category	Category Fraction	Category Frequency (50 years)	Category Population	Frequency per Unit (50 years)
Electrical	0.086	3.17E-01	282	1.12E-03
HVAC	0.080	2.97E-01	66	4.50E-03
Mechanical Equipment	0.139	5.15E-01	68	7.57E-03
Heat Generating Equipment	0.155	5.74E-01	0	0.00E+00
Torches, welders, burners	0.219	8.10E-01	1446.226667	5.60E-04
Internal combustion engines	0.021	7.77E-02	200	3.89E-04
Office/kitchen equipment	0.064	2.37E-01	10	2.37E-02
Portable Equipment	0.102	3.77E-01	60	6.29E-03
No equipment involved	0.134	4.96E-01	19611	2.53E-05
	1.000	3.7E+00		

Assumption: Sampled Value (H4)

Normal distribution with parameters:

Mean
97.5%

0.139 (=I4)
0.189 (=J4)



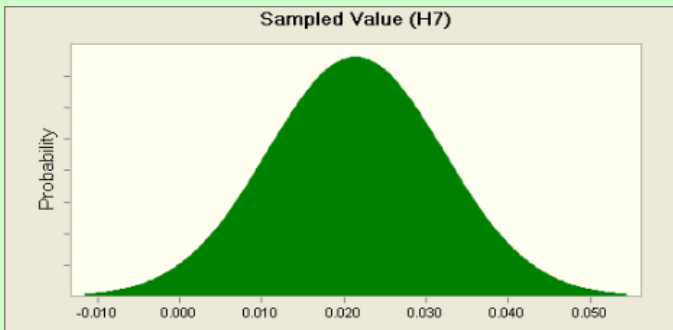
Normalized Value	Sampled Value	Mean Fraction	97.5% Value	97.5th percentile add
0.086	0.086	0.086	1.26E-01	4.05E-02
0.080	0.080	0.080	1.20E-01	3.93E-02
0.139	0.139	0.139	1.89E-01	5.01E-02
0.155	0.155	0.155	2.07E-01	5.24E-02
0.219	0.219	0.219	2.79E-01	5.99E-02
0.021	0.021	0.021	4.23E-02	2.09E-02
0.064	0.064	0.064	9.97E-02	3.55E-02
0.102	0.102	0.102	1.45E-01	4.37E-02
0.134	0.134	0.134	1.83E-01	4.93E-02
1.000				

Cell: H4

Assumption: Sampled Value (H7) Cell: H7

Normal distribution with parameters:

Mean	0.021	(=I7)
97.5%	0.042	(=J7)





1015	1	2	9.2				2
1016							
1017							
1018			2.4				1
1019			2.4				1
1020							
1021							
1022							
1023			1.05				1
1024			1.05				1
1025							
1026	1		19.9			130	4
1027		2	2		5	10	
1028	1	2	4		400		
1029	22	2					2
1029A	1						
1030		4					2
1031		2					2
1032		4					2
1033							
1034							
1035		4					2
1036		2				37	
1036A		2				23	
1036B							
1037							
1038							
1039							
1040							
1041							
1042							
1043							
1044			1				
1044A							
1045							
1046							
1047			1				
1047A							
1048							
1049			1				
1049A							
1050							
1051							
1052							
1053							
1054							
1201 - 1210						5	
1211 - 1213 & 1215 - 1222						4	
1214							
2001	26	6					4
2002					5		
2003	11		1				1
2003A							
2004		2	14		10		1
2005	21	2					4
2005A							
2006A							
2006B							
2006D							

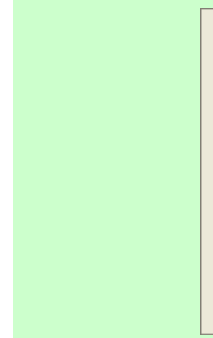
3045A
3046
3048
3050

TOTAL	282	66	68	0	1446.22667	200	10	60
-------	-----	----	----	---	------------	-----	----	----

		Conditional Probability
Automatic Suppression Functional		
Extent of Propagation	Alternative Definition	
Confined to Object of Origin	No Propagation	0.551
Confined to Part of Room of Origin	Spreads Through Part of Room of Origin	0.317
Confined to Room of Origin	Spreads Throughout Room of Origin	0.028
Confined to Fire-Rated Area of Origin	Spreads Throughout Fire-Rated Area of Origin	0.005
Confined to Floor of Origin	Spreads Throughout Floor of Origin	0.069
Confined to Structure of Origin	Spreads Throughout Building	0.028
Extended Beyond Structure of Origin	Breaches Building Boundary	0.005
		1.000
		0.101
Automatic Suppression Fails		
Extent of Propagation	Alternative Definition	
Confined to Object of Origin	No Propagation	0.621
Confined to Part of Room of Origin	Spreads Through Part of Room of Origin	0.149
Confined to Room of Origin	Spreads Throughout Room of Origin	0.004
Confined to Fire-Rated Area of Origin	Spreads Throughout Fire-Rated Area of Origin	0.057
Confined to Floor of Origin	Spreads Throughout Floor of Origin	0.004
Confined to Structure of Origin	Spreads Throughout Building	0.161
Extended Beyond Structure of Origin	Breaches Building Boundary	0.004
		1.000

Assumption: F1

No



Normalized Value	Sampled Value	Mean Fraction	97.5% Value	97.5th percentile add
0.551	0.551	0.551	0.667	0.117
0.317	0.317	0.317	0.426	0.109
0.028	0.028	0.028	0.066	0.038
0.005	0.005	0.005	0.020	0.016
0.069	0.069	0.069	0.128	0.059
0.028	0.028	0.028	0.055	0.028
0.005	0.005	0.005	0.020	0.016
1.000				

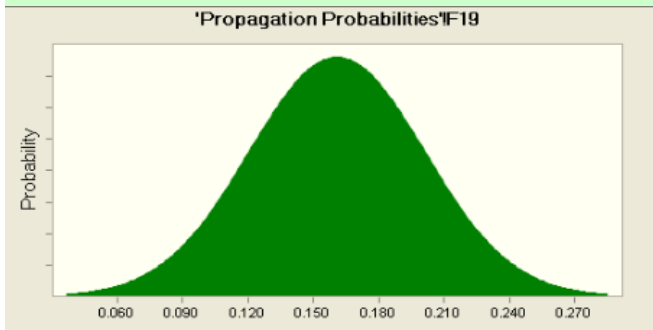
0.621	0.621	0.621	0.725	0.104
0.149	0.149	0.149	0.226	0.076
0.004	0.004	0.004	0.017	0.013
0.057	0.057	0.057	0.107	0.050
0.004	0.004	0.004	0.017	0.013
0.161	0.161	0.161	0.240	0.079
0.004	0.004	0.004	0.017	0.013
1.000				

9

Cell: F19

Normal distribution with parameters:

Mean 0.161 (=G19)
 97.5% 0.240 (=H19)



Localized Fires That Threatens Waste Form

Contributions from Rooms Containing Waste Form

Room of Origin

(includes
comments field as needed)

Room of Origin (includes comments field as needed)	Ignition Source (If Applicable)	Number in Room	Frequency per Unit (50 years)	Number at Target	Number Near Target	Propagation Probability to Target
---	------------------------------------	-------------------	-------------------------------------	---------------------	--------------------------	---

Entry represents a vulnerability due to the WP Transfer Trolley

1018, 2004 & 2007	Electrical	0	1.12E-03			0.211
	HVAC	2	4.50E-03			0.211
	Mechanical Equipment	21.4	7.57E-03	2.4		0.211
	Heat Generating Equipment	0	0.00E+00			0.211
	Torches, welders, burners	1021.227	5.60E-04	1011.227		0.211
	Internal combustion engines	0	3.89E-04			0.211
	Office/kitchen equipment	0	2.37E-02			0.211
	Portable Equipment	4	6.29E-03	1		0.211
	No equipment involved	4307	2.53E-05	213	120	0.211

Propagation from rooms in Fire Zone

1016			8.46E-04			0.057
1017			9.40E-04			0.057
1019			2.98E-02			0.057
1020			8.46E-04			0.057
1021			7.75E-04			0.057
2003			3.16E-02			0.057
2003A			4.89E-04			0.057
2007A			1.71E-02			0.057
2007B			6.97E-03			0.057
2011			3.19E-02			0.057
2011A			4.79E-04			0.057

Localized Fire Threatens Waste Form in WP in Positioning/Closure Room

Localized Fire Threatens TAD in WP in Positioning/Closure Room

Localized Fire Threatens HLW in WP in Positioning/Closure Room

Localized Fire Threatens HLW and DOE-SNF in WP in Positioning/Closure Room

Entry represents a vulnerability due to the Transportation Emplacement Vehicle

1015 & 1014	Electrical	1	1.12E-03	1		0.211
	HVAC	4	4.50E-03	2	2	0.211
	Mechanical Equipment	11.2	7.57E-03	11.2		0.211
	Heat Generating Equipment	0	0.00E+00			0.211
	Torches, welders, burners	0	5.60E-04			0.211
	Internal combustion engines	0	3.89E-04			0.211
	Office/kitchen equipment	0	2.37E-02			0.211
	Portable Equipment	3	6.29E-03	3		0.211
	No equipment involved	1711	2.53E-05	880	300	0.211

Localized Fire Threatens Waste Form in TEV in Loadout Room

Localized Fire Threatens TAD/WP in TEV in Loadout Room

Localized Fire Threatens HLW and DOE-SNF in WP in TEV in Loadout Room

Entry represents a vulnerability due to the WP Transfer Trolley

1015	Electrical	1	1.12E-03	1		0.211
------	------------	---	----------	---	--	-------

HVAC	2	4.50E-03		2	0.211
Mechanical Equipment	9.2	7.57E-03	9.2		0.211
Heat Generating Equipment	0	0.00E+00			0.211
Torches, welders, burners	0	5.60E-04			0.211
Internal combustion engines	0	3.89E-04			0.211
Office/kitchen equipment	0	2.37E-02			0.211
Portable Equipment	2	6.29E-03	1	1	0.211
No equipment involved	1326	2.53E-05	430	250	0.211

Localized Fire Threatens Waste Form in WP in Loadout Room

Localized Fire Threatens TAD in WP in Loadout Room

Localized Fire Threatens HLW and DOE-SNF in WP in Loadout Room

Entry represents a vulnerability due to the Cask Transfer Trolley

1023	Electrical	0	1.12E-03		0.211	
	HVAC	0	4.50E-03		0.211	
	Mechanical Equipment	1.05	7.57E-03	1.05	0.211	
	Heat Generating Equipment	0	0.00E+00		0.211	
	Torches, welders, burners	0	5.60E-04		0.211	
	Internal combustion engines	0	3.89E-04		0.211	
	Office/kitchen equipment	0	2.37E-02		0.211	
	Portable Equipment	1	6.29E-03	1	0.211	
	No equipment involved	78	2.53E-05	30	48	0.211

Propagation from rooms in Fire Zone

1022			7.05E-04		0.057
1024			1.62E-02		0.057
1025			7.05E-04		0.057
1026			2.82E-01		0.057

Localized Fire Threatens Waste Form on CTT in Unloading Room

Localized Fire Threatens TC/TAD on CTT in Unloading Room

Localized Fire Threatens TC/HLW on CTT in Unloading Room

Localized Fire Threatens TC/DOE-SNF on CTT in Unloading Room

Localized Fire Threatens TC/DPC (VTC) in Cask Unloading Room

Entry represents a vulnerability due to the Site Transporter

1023	Electrical	0	1.12E-03		0.211	
	HVAC	0	4.50E-03		0.211	
	Mechanical Equipment	1.05	7.57E-03	1.05	0.211	
	Heat Generating Equipment	0	0.00E+00		0.211	
	Torches, welders, burners	0	5.60E-04		0.211	
	Internal combustion engines	0	3.89E-04		0.211	
	Office/kitchen equipment	0	2.37E-02		0.211	
	Portable Equipment	1	6.29E-03	1	0.211	
	No equipment involved	78	2.53E-05	30	48	0.211

Propagation from rooms in Fire Zone

1022			7.05E-04		0.057
1024			1.62E-02		0.057
1025			7.05E-04		0.057
1026			2.82E-01		0.057

Localized Fire Threatens Waste Form in AO in Unloading Room (Diesel Present)

Localized Fire Threatens TAD in AO in Unloading Room (Diesel Present)

Localized Fire Threatens DPC (VTC) in AO in Unloading Room (Diesel Present)

Entry represents a vulnerability due to the Site Prime Mover (Diesel Present)

1026	Electrical	1	1.12E-03	1		0.211
1036	HVAC	4	4.50E-03	4		0.211
1036A	Mechanical Equipment	19.9	7.57E-03	4	15.9	0.211
	Heat Generating Equipment	0	0.00E+00			0.211
	Torches, welders, burners	0	5.60E-04			0.211
	Internal combustion engines	190	3.89E-04	190		0.211
	Office/kitchen equipment	0	2.37E-02			0.211
	Portable Equipment	4	6.29E-03	2		0.211
	No equipment involved	2591	2.53E-05	1526	120	0.211
Propagation from rooms in Fire Zone						208
1022			7.05E-04			0.057
1023			1.62E-02			0.057
1024			1.62E-02			0.057
1025			7.05E-04			0.057

Localized Fire Threatens Waste Form in Vestibule/Preparation Area w/SPM (Diesel Present)

Localized Fire Threatens TC/TAD in Vestibule/Preparation Area w/SPM (Diesel Present)
 Localized Fire Threatens TC/HLW in Vestibule/Preparation Area w/SPM (Diesel Present)
 Localized Fire Threatens TC/DOE-SNF in Vestibule/Preparation Area w/SPM (Diesel Present)
 Localized Fire Threatens TC/DPC (VTC) in Vestibule/Preparation Area (Diesel Present)

Entry represents a vulnerability due to the Railcar (No Diesel Present)

1026	Electrical	1	1.12E-03	1		0.211
1036	HVAC	4	4.50E-03	4		0.211
1036A	Mechanical Equipment	19.9	7.57E-03	4	15.9	0.211
	Heat Generating Equipment	0	0.00E+00			0.211
	Torches, welders, burners	0	5.60E-04			0.211
	Internal combustion engines	0	3.89E-04			0.211
	Office/kitchen equipment	0	2.37E-02			0.211
	Portable Equipment	4	6.29E-03	2		0.211
	No equipment involved	2591	2.53E-05	1526	120	0.211
Propagation from rooms in Fire Zone						
1022			7.05E-04			0.057
1023			1.62E-02			0.057
1024			1.62E-02			0.057
1025			7.05E-04			0.057

Localized Fire Threatens Waste Form in Preparation Area w/o SPM (No Diesel Present)

Localized Fire Threatens TC/TAD in Preparation Area w/o SPM (No Diesel Present)
 Localized Fire Threatens TC/HLW in Preparation Area w/o SPM (No Diesel Present)
 Localized Fire Threatens TC/DOE-SNF in Preparation Area w/o SPM (No Diesel Present)
 Localized Fire Threatens TC/DPC (VTC) in Preparation Area (No Diesel Present)

Entry represents a vulnerability due to the Site Transporter

1026 & 1027	Electrical	1	1.12E-03	1		0.211
	HVAC	2	4.50E-03	2		0.211
	Mechanical Equipment	21.9	7.57E-03	21.9		0.211
	Heat Generating Equipment	0	0.00E+00			0.211
	Torches, welders, burners	5	5.60E-04			0.211
	Internal combustion engines	140	3.89E-04	140		0.211
	Office/kitchen equipment	0	2.37E-02			0.211
	Portable Equipment	4	6.29E-03	4		0.211
	No equipment involved	2485	2.53E-05	2143		0.211

Propagation from rooms in Fire Zone

1022		7.05E-04			0.057
1023		1.62E-02			0.057
1024		1.62E-02			0.057
1025		7.05E-04			0.057

Localized Fire Threatens Waste Form in AO in Vestibule/Preparation Area (Diesel Present)

Localized Fire Threatens TAD in AO in Vestibule/Preparation Area (Diesel Present)

Localized Fire Threatens DPC (VTC) in AO in Vestibule/Preparation Area (Diesel Present)

Entry represents a vulnerability due to the Cask Transfer Trolley

1026	Electrical	1	1.12E-03	1		0.211
	HVAC	0	4.50E-03			0.211
	Mechanical Equipment	19.9	7.57E-03	4	15.9	0.211
	Heat Generating Equipment	0	0.00E+00			0.211
	Torches, welders, burners	0	5.60E-04			0.211
	Internal combustion engines	130	3.89E-04	130		0.211
	Office/kitchen equipment	0	2.37E-02			0.211
	Portable Equipment	4	6.29E-03	2		0.211
	No equipment involved	2143	2.53E-05	1070	120	0.211

Propagation from rooms in Fire Zone

1022		7.05E-04			0.057
1023		1.62E-02			0.057
1024		1.62E-02			0.057
1025		7.05E-04			0.057

Localized Fire Threatens Waste Form on CTT in Preparation Area

Localized Fire Threatens TC/TAD on CTT in Preparation Area

Localized Fire Threatens TC/HLW on CTT in Preparation Area

Localized Fire Threatens TC/DOE-SNF on CTT in Preparation Area

Localized Fire Threatens TC/DPC (VTC) in Preparation Area

Entry represents a vulnerability due to the Canister Transfer Machine

2004	Electrical	0	1.12E-03			0.211
	HVAC	2	4.50E-03			0.211
	Mechanical Equipment	14	7.57E-03	10	0	0.211
	Heat Generating Equipment	0	0.00E+00			0.211
	Torches, welders, burners	10	5.60E-04			0.211
	Internal combustion engines	0	3.89E-04			0.211
	Office/kitchen equipment	0	2.37E-02			0.211
	Portable Equipment	1	6.29E-03	1		0.211
	No equipment involved	3846	2.53E-05	60	240	0.211

Localized Fire Threatens Waste Form in CTM in Transfer Room

Localized Fire Threatens TAD in CTM in Transfer Room

Localized Fire Threatens HLW in CTM in Transfer Room (per individual canister)

Localized Fire Threatens DOE-SNF in CTM in Transfer Room (per individual canister)

Localized Fire Threatens DPC (VTC) in CTM in Transfer Room

Large Fire Threatens Waste Form In Fire Zones Containing Vulnerable Waste Forms

Large fires are those that spread beyond the boundaries of a fire area, up through those that breach the building t

	Total Ignition Frequency	Propagation Probability Beyond Fire - rated Area
Large Fire Threatens TC/TAD (Diesel Present)	3.13E+00	0.169
Large Fire Threatens TC/TAD (No Diesel)	3.13E+00	0.169
Large Fire Threatens TAD in AO (Diesel Present)	3.13E+00	0.169
Large Fire Threatens TAD in CTM	3.13E+00	0.169
Large Fire Threatens TAD in WP in WPTT	3.13E+00	0.169
Large Fire Threatens TAD in WP in TEV	3.13E+00	0.169
Large Fire Threatens TC/HLW (Diesel Present)	3.13E+00	0.169
Large Fire Threatens TC/HLW (No Diesel)	3.13E+00	0.169
Large Fire Threatens HLW in CTM (per indiv canister)	3.13E+00	0.169
Large Fire Threatens HLW in WP	3.13E+00	0.169
Large Fire Threatens HLW and DOE-SNF in WP	3.13E+00	0.169
Large Fire Threatens TC/DOE-SNF (Diesel Present)	3.13E+00	0.169
Large Fire Threatens TC/DOE-SNF (No Diesel)	3.13E+00	0.169
Large Fire Threatens DOE-SNF in CTM (per canister)	3.13E+00	0.169
Large Fire Threatens DOE-SNF in Staging Area	3.13E+00	0.169
Large Fire Threatens TC/DPC (VTC) (Diesel)	3.13E+00	0.169
Large Fire Threatens TC/DPC (VTC) (No Diesel)	3.13E+00	0.169
Large Fire Threatens DPC (VTC) in CTM	3.13E+00	0.169
Large Fire Threatens DPC (VTC) in AO (Diesel)	3.13E+00	0.169

Number Away from Target	Propagation Probability to Target	Target Exposure Time (Fraction)	Contribution to IE Frequency (50 years)	Target Exposure Time (Fraction)	Contribution to IE Frequency (50 years)	Target Exposure Time (Fraction)	Contribution to IE Frequency (50 years)
----------------------------------	---	--	--	--	--	--	--

		TAD		HLW		HLW & DOE-SNF	
	0.061	9.6E-05	0.0E+00	1.3E-05	0.0E+00	9.8E-05	0.0E+00
2	0.061	9.6E-05	5.3E-08	1.3E-05	6.9E-09	9.8E-05	5.4E-08
19	0.061	9.6E-05	2.6E-06	1.3E-05	3.4E-07	9.8E-05	2.6E-06
	0.061	9.6E-05	0.0E+00	1.3E-05	0.0E+00	9.8E-05	0.0E+00
10	0.061	9.6E-05	5.5E-05	1.3E-05	7.1E-06	9.8E-05	5.6E-05
	0.061	9.6E-05	0.0E+00	1.3E-05	0.0E+00	9.8E-05	0.0E+00
	0.061	9.6E-05	0.0E+00	1.3E-05	0.0E+00	9.8E-05	0.0E+00
3	0.061	9.6E-05	7.2E-07	1.3E-05	9.4E-08	9.8E-05	7.3E-07
3974	0.061	9.6E-05	1.2E-06	1.3E-05	1.5E-07	9.8E-05	1.2E-06

	9.6E-05	4.7E-09	1.3E-05	6.1E-10	9.8E-05	4.8E-09
	9.6E-05	5.2E-09	1.3E-05	6.8E-10	9.8E-05	5.3E-09
	9.6E-05	1.6E-07	1.3E-05	2.2E-08	9.8E-05	1.7E-07
	9.6E-05	4.7E-09	1.3E-05	6.1E-10	9.8E-05	4.8E-09
	9.6E-05	4.3E-09	1.3E-05	5.6E-10	9.8E-05	4.4E-09
	9.6E-05	1.7E-07	1.3E-05	2.3E-08	9.8E-05	1.8E-07
	9.6E-05	2.7E-09	1.3E-05	3.5E-10	9.8E-05	2.8E-09
	9.6E-05	9.4E-08	1.3E-05	1.2E-08	9.8E-05	9.6E-08
	9.6E-05	3.9E-08	1.3E-05	5.0E-09	9.8E-05	3.9E-08
	9.6E-05	1.8E-07	1.3E-05	2.3E-08	9.8E-05	1.8E-07
	9.6E-05	2.6E-09	1.3E-05	3.5E-10	9.8E-05	2.7E-09

5.97E-05

7.8E-06

6.1E-05

		TAD		HLW & DOE-SNF	
	0.061	1.2E-06	1.3E-09	1.2E-06	1.3E-09
	0.061	1.2E-06	1.3E-08	1.2E-06	1.3E-08
	0.061	1.2E-06	1.0E-07	1.2E-06	1.0E-07
	0.061	1.2E-06	0.0E+00	1.2E-06	0.0E+00
	0.061	1.2E-06	0.0E+00	1.2E-06	0.0E+00
	0.061	1.2E-06	0.0E+00	1.2E-06	0.0E+00
	0.061	1.2E-06	0.0E+00	1.2E-06	0.0E+00
	0.061	1.2E-06	2.2E-08	1.2E-06	2.2E-08
531	0.061	1.2E-06	2.9E-08	1.2E-06	2.9E-08

1.7E-07

1.7E-07

		TAD		HLW & DOE-SNF	
	0.061	7.1E-06	7.9E-09	7.1E-06	7.9E-09

	0.061	7.1E-06	1.3E-08	7.1E-06	1.3E-08
	0.061	7.1E-06	4.9E-07	7.1E-06	4.9E-07
	0.061	7.1E-06	0.0E+00	7.1E-06	0.0E+00
	0.061	7.1E-06	0.0E+00	7.1E-06	0.0E+00
	0.061	7.1E-06	0.0E+00	7.1E-06	0.0E+00
	0.061	7.1E-06	0.0E+00	7.1E-06	0.0E+00
0	0.061	7.1E-06	5.4E-08	7.1E-06	5.4E-08
646	0.061	7.1E-06	9.3E-08	7.1E-06	9.3E-08

6.6E-07

6.6E-07

		TAD		HLW		DOE-SNF	
	0.061	3.3E-06	0.0E+00	1.3E-05	0.0E+00	2.1E-05	0.0E+00
	0.061	3.3E-06	0.0E+00	1.3E-05	0.0E+00	2.1E-05	0.0E+00
	0.061	3.3E-06	2.7E-08	1.3E-05	1.1E-07	2.1E-05	1.7E-07
	0.061	3.3E-06	0.0E+00	1.3E-05	0.0E+00	2.1E-05	0.0E+00
	0.061	3.3E-06	0.0E+00	1.3E-05	0.0E+00	2.1E-05	0.0E+00
	0.061	3.3E-06	0.0E+00	1.3E-05	0.0E+00	2.1E-05	0.0E+00
	0.061	3.3E-06	0.0E+00	1.3E-05	0.0E+00	2.1E-05	0.0E+00
	0.061	3.3E-06	2.1E-08	1.3E-05	8.4E-08	2.1E-05	1.3E-07
0	0.061	3.3E-06	3.4E-09	1.3E-05	1.4E-08	2.1E-05	2.1E-08
		3.3E-06	1.4E-10	1.3E-05	5.4E-10	2.1E-05	8.5E-10
		3.3E-06	3.1E-09	1.3E-05	1.2E-08	2.1E-05	2.0E-08
		3.3E-06	1.4E-10	1.3E-05	5.4E-10	2.1E-05	8.5E-10
		3.3E-06	5.4E-08	1.3E-05	2.2E-07	2.1E-05	3.4E-07

1.1E-07

4.3E-07

6.8E-07

		TAD		DPC (VTC)	
	0.061	3.5E-06	0.0E+00	3.3E-06	0.0E+00
	0.061	3.5E-06	0.0E+00	3.3E-06	0.0E+00
	0.061	3.5E-06	2.8E-08	3.3E-06	2.6E-08
	0.061	3.5E-06	0.0E+00	3.3E-06	0.0E+00
	0.061	3.5E-06	0.0E+00	3.3E-06	0.0E+00
	0.061	3.5E-06	0.0E+00	3.3E-06	0.0E+00
	0.061	3.5E-06	0.0E+00	3.3E-06	0.0E+00
	0.061	3.5E-06	2.2E-08	3.3E-06	2.1E-08
0	0.061	3.5E-06	3.6E-09	3.3E-06	3.4E-09
		3.5E-06	1.4E-10	3.3E-06	1.3E-10
		3.5E-06	3.3E-09	3.3E-06	3.1E-09
		3.5E-06	1.4E-10	3.3E-06	1.3E-10
		3.5E-06	5.7E-08	3.3E-06	5.4E-08

1.1E-07

1.1E-07

		TAD		HLW		DOE-SNF	
2 945	0.061	2.1E-06	2.3E-09	2.1E-06	2.4E-09	2.1E-06	2.4E-09
	0.061	2.1E-06	3.7E-08	2.1E-06	3.8E-08	2.1E-06	3.8E-08
	0.061	2.1E-06	1.1E-07	2.1E-06	1.2E-07	2.1E-06	1.2E-07
	0.061	2.1E-06	0.0E+00	2.1E-06	0.0E+00	2.1E-06	0.0E+00
	0.061	2.1E-06	0.0E+00	2.1E-06	0.0E+00	2.1E-06	0.0E+00
	0.061	2.1E-06	1.5E-07	2.1E-06	1.6E-07	2.1E-06	1.6E-07
	0.061	2.1E-06	0.0E+00	2.1E-06	0.0E+00	2.1E-06	0.0E+00
	0.061	2.1E-06	2.7E-08	2.1E-06	2.8E-08	2.1E-06	2.8E-08
	0.061	2.1E-06	8.4E-08	2.1E-06	8.7E-08	2.1E-06	8.7E-08
			2.1E-06	8.3E-11	2.1E-06	8.6E-11	2.1E-06
		2.1E-06	1.9E-09	2.1E-06	2.0E-09	2.1E-06	2.0E-09
		2.1E-06	1.9E-09	2.1E-06	2.0E-09	2.1E-06	2.0E-09
		2.1E-06	8.3E-11	2.1E-06	8.6E-11	2.1E-06	8.6E-11

)
)
)sent)

4.2E-07

4.4E-07

4.4E-07

		TAD		HLW		DOE-SNF	
2 945	0.061	1.5E-05	1.7E-08	1.8E-05	2.0E-08	1.5E-05	1.7E-08
	0.061	1.5E-05	2.7E-07	1.8E-05	3.2E-07	1.5E-05	2.7E-07
	0.061	1.5E-05	8.4E-07	1.8E-05	9.9E-07	1.5E-05	8.4E-07
	0.061	1.5E-05	0.0E+00	1.8E-05	0.0E+00	1.5E-05	0.0E+00
	0.061	1.5E-05	0.0E+00	1.8E-05	0.0E+00	1.5E-05	0.0E+00
	0.061	1.5E-05	0.0E+00	1.8E-05	0.0E+00	1.5E-05	0.0E+00
	0.061	1.5E-05	0.0E+00	1.8E-05	0.0E+00	1.5E-05	0.0E+00
	0.061	1.5E-05	2.0E-07	1.8E-05	2.4E-07	1.5E-05	2.0E-07
	0.061	1.5E-05	6.1E-07	1.8E-05	7.3E-07	1.5E-05	6.1E-07
			1.5E-05	6.1E-10	1.8E-05	7.2E-10	1.5E-05
		1.5E-05	1.4E-08	1.8E-05	1.7E-08	1.5E-05	1.4E-08
		1.5E-05	1.4E-08	1.8E-05	1.7E-08	1.5E-05	1.4E-08
		1.5E-05	6.1E-10	1.8E-05	7.2E-10	1.5E-05	6.1E-10

2.0E-06

2.3E-06

2.0E-06

)

		TAD		DPC (VTC)	
5 342	0.061	8.4E-06	9.4E-09	1.2E-05	1.4E-08
	0.061	8.4E-06	7.5E-08	1.2E-05	1.1E-07
	0.061	8.4E-06	1.4E-06	1.2E-05	2.0E-06
	0.061	8.4E-06	0.0E+00	1.2E-05	0.0E+00
	0.061	8.4E-06	1.4E-09	1.2E-05	2.1E-09
	0.061	8.4E-06	4.6E-07	1.2E-05	6.6E-07
	0.061	8.4E-06	0.0E+00	1.2E-05	0.0E+00
	0.061	8.4E-06	2.1E-07	1.2E-05	3.0E-07
	0.061	8.4E-06	4.6E-07	1.2E-05	6.6E-07

8.4E-06	3.4E-10	1.2E-05	4.9E-10
8.4E-06	7.8E-09	1.2E-05	1.1E-08
8.4E-06	7.8E-09	1.2E-05	1.1E-08
8.4E-06	3.4E-10	1.2E-05	4.9E-10

2.6E-06

1t)

3.8E-06

		TAD		HLW		DOE-SNF	
	0.061	1.6E-05	1.8E-08	1.4E-05	1.6E-08	1.5E-05	1.6E-08
	0.061	1.6E-05	0.0E+00	1.4E-05	0.0E+00	1.5E-05	0.0E+00
	0.061	1.6E-05	8.7E-07	1.4E-05	7.7E-07	1.5E-05	8.2E-07
	0.061	1.6E-05	0.0E+00	1.4E-05	0.0E+00	1.5E-05	0.0E+00
	0.061	1.6E-05	0.0E+00	1.4E-05	0.0E+00	1.5E-05	0.0E+00
	0.061	1.6E-05	7.9E-07	1.4E-05	7.0E-07	1.5E-05	7.4E-07
	0.061	1.6E-05	0.0E+00	1.4E-05	0.0E+00	1.5E-05	0.0E+00
2	0.061	1.6E-05	2.1E-07	1.4E-05	1.9E-07	1.5E-05	2.0E-07
953	0.061	1.6E-05	4.6E-07	1.4E-05	4.1E-07	1.5E-05	4.3E-07
		1.6E-05	6.3E-10	1.4E-05	5.6E-10	1.5E-05	5.9E-10
		1.6E-05	1.5E-08	1.4E-05	1.3E-08	1.5E-05	1.4E-08
		1.6E-05	1.5E-08	1.4E-05	1.3E-08	1.5E-05	1.4E-08
		1.6E-05	6.3E-10	1.4E-05	5.6E-10	1.5E-05	5.9E-10

2.4E-06

2.1E-06

2.2E-06

		TAD		HLW		DOE-SNF	
	0.061	1.1E-06	0.0E+00	1.3E-06	0.0E+00	1.1E-06	0.0E+00
2	0.061	1.1E-06	6.1E-10	1.3E-06	7.1E-10	1.1E-06	6.1E-10
4	0.061	1.1E-06	8.6E-08	1.3E-06	1.0E-07	1.1E-06	8.6E-08
	0.061	1.1E-06	0.0E+00	1.3E-06	0.0E+00	1.1E-06	0.0E+00
10	0.061	1.1E-06	3.8E-10	1.3E-06	4.4E-10	1.1E-06	3.8E-10
	0.061	1.1E-06	0.0E+00	1.3E-06	0.0E+00	1.1E-06	0.0E+00
	0.061	1.1E-06	0.0E+00	1.3E-06	0.0E+00	1.1E-06	0.0E+00
	0.061	1.1E-06	6.9E-09	1.3E-06	8.1E-09	1.1E-06	6.9E-09
3546	0.061	1.1E-06	9.1E-09	1.3E-06	1.1E-08	1.1E-06	9.1E-09

1.0E-07

1.2E-07

1.0E-07

oundary.

**Target
Exposure
Time
(Fraction) Contribution
to IE
Frequency**

2.1E-06	1.1E-06
3.3E-05	1.7E-05
1.1E-05	5.9E-06
1.5E-06	7.8E-07
1.0E-04	5.4E-05
1.8E-06	9.2E-07
2.1E-06	1.1E-06
3.4E-05	1.8E-05
1.5E-06	7.8E-07
1.3E-05	6.6E-06
1.1E-04	5.6E-05
2.1E-06	1.1E-06
3.2E-05	1.7E-05
1.1E-06	5.8E-07
1.0E+00	5.3E-01
2.1E-06	1.1E-06
3.0E-05	1.6E-05
1.2E-06	6.4E-07
1.5E-05	7.7E-06

Target Exposure Time (Fraction)	Contribution to IE Frequency (50 years)
--	--

TC/DPC (VTC)

1.8E-06	0.0E+00
1.8E-06	0.0E+00
1.8E-06	1.4E-08
1.8E-06	0.0E+00
1.8E-06	0.0E+00
1.8E-06	0.0E+00
1.8E-06	0.0E+00
1.8E-06	1.1E-08
1.8E-06	1.8E-09
1.8E-06	7.2E-11
1.8E-06	1.7E-09
1.8E-06	7.2E-11
1.8E-06	2.9E-08

5.8E-08

TC/DPC (VTC)

2.1E-06	2.4E-09
2.1E-06	3.8E-08
2.1E-06	1.2E-07
2.1E-06	0.0E+00
2.1E-06	0.0E+00
2.1E-06	1.6E-07
2.1E-06	0.0E+00
2.1E-06	2.8E-08
2.1E-06	8.7E-08
2.1E-06	8.6E-11
2.1E-06	2.0E-09
2.1E-06	2.0E-09
2.1E-06	8.6E-11

4.4E-07

TC/DPC (VTC)

1.3E-05	1.5E-08
1.3E-05	2.4E-07
1.3E-05	7.3E-07
1.3E-05	0.0E+00
1.3E-05	0.0E+00
1.3E-05	0.0E+00
1.3E-05	0.0E+00
1.3E-05	1.8E-07
1.3E-05	5.4E-07
1.3E-05	5.3E-10
1.3E-05	1.2E-08
1.3E-05	1.2E-08
1.3E-05	5.3E-10

1.7E-06

TC/DPC (VTC)

1.5E-05	1.7E-08
1.5E-05	0.0E+00
1.5E-05	8.2E-07
1.5E-05	0.0E+00
1.5E-05	0.0E+00
1.5E-05	7.5E-07
1.5E-05	0.0E+00
1.5E-05	2.0E-07
1.5E-05	4.3E-07
1.5E-05	6.0E-10
1.5E-05	1.4E-08
1.5E-05	1.4E-08
1.5E-05	6.0E-10

2.2E-06

TC/DPC (VTC)

1.2E-06	0.0E+00
1.2E-06	6.7E-10
1.2E-06	9.4E-08
1.2E-06	0.0E+00
1.2E-06	4.2E-10
1.2E-06	0.0E+00
1.2E-06	0.0E+00
1.2E-06	7.7E-09
1.2E-06	1.0E-08

1.1E-07

Initiating Event	Equipment	Mean	Median	97.5% Value
Localized Fire Threatens Waste Form in WP in Positioning/Closure Room	WP Transfer Trolley			
Localized Fire Threatens TAD in WP in Positioning/Closure Room		6.5E-05	5.8E-05	1.42E-4
Localized Fire Threatens HLW in WP in Positioning/Closure Room		8.5E-06	7.6E-06	1.9E-05
Localized Fire Threatens HLW and DOE SNF in WP in Positioning/Closure Room		6.6E-05	5.9E-05	1.4E-04
Localized Fire Threatens Waste Form in TEV in Loadout Room	Transportation Emplacement Vehicle			
Localized Fire Threatens TAD/WP in TEV in Loadout Room		1.9E-07	1.7E-07	4.1E-07
Localized Fire Threatens HLW and DOE SNF in WP in TEV in Loadout Room		1.9E-07	1.7E-07	4.1E-07
Localized Fire Threatens Waste Form in WP in Loadout Room	WP Transfer Trolley			
Localized Fire Threatens TAD in WP in Loadout Room		7.3E-07	6.6E-07	1.6E-06
Localized Fire Threatens HLW and DOE SNF in WP in Loadout Room		7.3E-07	6.6E-07	1.6E-06
Localized Fire Threatens Waste Form on CTT in Unloading Room	Cask Transfer Trolley			
Localized Fire Threatens TC/TAD on CTT in Unloading Room		1.2E-07	1.1E-07	2.8E-07
Localized Fire Threatens TC/HLW on CTT in Unloading Room		4.7E-07	4.2E-07	1.1E-06
Localized Fire Threatens TC/DOE SNF on CTT in Unloading Room		7.5E-07	6.7E-07	1.7E-06
Localized Fire Threatens TC/DPC (VTC) in Cask Unloading Room		6.4E-08	5.6E-08	1.5E-07
Localized Fire Threatens Waste Form in AO in Unloading Room (Diesel Present)	Site Transporter			
Localized Fire Threatens TAD in AO in Unloading Room (Diesel Present)		1.3E-07	1.1E-07	2.9E-07
Localized Fire Threatens DPC (VTC) in AO in Unloading Room (Diesel Present)		1.2E-07	1.0E-07	2.7E-07
Localized Fire Threatens Waste Form in Vestibule/Preparation Area w/SPM (Diesel Present)	Site Prime Mover			
Localized Fire Threatens TC/TAD in Vestibule/Preparation Area w/SPM (Diesel Present)		4.7E-07	4.2E-07	1.1E-06
Localized Fire Threatens TC/HLW in Vestibule/Preparation Area w/SPM (Diesel Present)		4.9E-07	4.3E-07	1.1E-06
Localized Fire Threatens TC/DOE SNF in Vestibule/Preparation Area w/SPM (Diesel Present)		4.9E-07	4.3E-07	1.1E-06
Localized Fire Threatens TC/DPC (VTC) in Vestibule/Preparation Area (Diesel Present)		4.9E-07	4.3E-07	1.1E-06
Localized Fire Threatens Waste Form in Preparation Area w/o SPM (No Diesel Present)	Railcar			
Localized Fire Threatens TC/TAD in Preparation Area w/o SPM (No Diesel Present)		2.2E-06	2.0E-06	4.7E-06
Localized Fire Threatens TC/HLW in Preparation Area w/o SPM (No Diesel Present)		2.6E-06	2.3E-06	5.6E-06

Localized Fire Threatens TC/DOE SNF in Preparation Area w/o SPM (No Diesel Present)		2.2E-06	2.0E-06	4.7E-06
Localized Fire Threatens TC/DPC (VTC) in Preparation Area (No Diesel Present)		1.9E-06	1.7E-06	4.1E-06
Localized Fire Threatens Waste Form in AO in Vestibule/Preparation Area (Diesel Present)	Site Transporter			
Localized Fire Threatens TAD in AO in Vestibule/Preparation Area (Diesel Present)		2.9E-06	2.6E-06	6.3E-06
Localized Fire Threatens DPC (VTC) in AO in Vestibule/Preparation Area (Diesel Present)		4.2E-06	3.8E-06	9.2E-06
Localized Fire Threatens Waste Form on CTT in Preparation Area	Cask Transfer Trolley			
Localized Fire Threatens TC/TAD on CTT in Preparation Area		2.6E-06	2.4E-06	6.0E-06
Localized Fire Threatens TC/HLW on CTT in Preparation Area		2.3E-06	2.1E-06	5.3E-06
Localized Fire Threatens TC/DOE SNF on CTT in Preparation Area		2.5E-06	2.2E-06	5.6E-06
Localized Fire Threatens TC/DPC (VTC) in Preparation Area		2.5E-06	2.2E-06	5.6E-06
Localized Fire Threatens Waste Form in CTM in Transfer Room	Canister Transfer Machine			
Localized Fire Threatens TAD in CTM in Transfer Room		1.1E-07	1.0E-07	2.5E-07
Localized Fire Threatens HLW in CTM in Transfer Room (per individual canister)		1.3E-07	1.2E-07	2.9E-07
Localized Fire Threatens DOE SNF in CTM in Transfer Room (per individual canister)		1.1E-07	1.0E-07	2.5E-07
Localized Fire Threatens DPC in CTM in Transfer Room		1.2E-07	1.1E-07	2.7E-07
Large Fire Threatens TC/TAD (Diesel Present)	-	1.2E-06	1.1E-06	2.8E-06
Large Fire Threatens TC/TAD (No Diesel)	-	1.9E-05	1.7E-05	4.4E-05
Large Fire Threatens TAD in AO (Diesel Present)	-	6.5E-06	5.8E-06	1.5E-05
Large Fire Threatens TAD in CTM	-	8.6E-07	7.7E-07	2.0E-06
Large Fire Threatens TAD in WP in WPTT	-	5.9E-05	5.3E-05	1.4E-04
Large Fire Threatens TAD in WP in TEV	-	1.0E-06	9.1E-07	2.3E-06
Large Fire Threatens TC/HLW (Diesel Present)	-	1.2E-06	1.1E-06	2.8E-06
Large Fire Threatens TC/HLW (No Diesel)	-	2.0E-05	1.7E-05	4.6E-05
Large Fire Threatens HLW in CTM (per indiv canister)	-	8.6E-07	7.7E-07	2.0E-06
Large Fire Threatens HLW in WP	-	7.3E-06	6.6E-06	1.7E-05
Large Fire Threatens HLW and DOE SNF in WP	-	6.1E-05	5.5E-05	1.4E-04
Large Fire Threatens TC/DOE SNF (Diesel Present)	-	1.2E-06	1.1E-06	2.8E-06
Large Fire Threatens TC/DOE SNF (No Diesel)	-	1.8E-05	1.7E-05	4.2E-05
Large Fire Threatens DOE SNF in CTM (per canister)	-	6.4E-07	5.8E-07	1.5E-06
Large Fire Threatens DOE SNF in Staging Area	-	5.8E-01	5.2E-01	1.4E+00
Large Fire Threatens TC/DPC (VTC) (Diesel)	-	1.2E-06	1.1E-06	2.9E-06
Large Fire Threatens TC/DPC (VTC) (No Diesel)	-	1.7E-05	1.5E-05	4.0E-05

Large Fire Threatens DPC (VTC) in CTM	-	7.1E-07	6.3E-07	1.6E-06
Large Fire Threatens DPC (VTC) in AO (Diesel)	-	8.5E-06	7.6E-06	2.0E-05

	Mean	Median	Sum mean
Localized Fire Threatens TC/DPC (VTC) in Cask Unloading Room	6.4E-08	5.8E-08	1.8E-07
Localized Fire Threatens DPC (VTC) in AO in Unloading Room (Diesel Present)	1.2E-07	1.1E-07	
Localized Fire Threatens TC/DPC (VTC) in Vestibule/Preparation Area (Diesel Present)	4.9E-07	4.4E-07	9.1E-06
Localized Fire Threatens TC/DPC (VTC) in Preparation Area (No Diesel Present)	1.9E-06	1.7E-06	
Localized Fire Threatens DPC (VTC) in AO in Vestibule/Preparation Area (Diesel Present)	4.2E-06	3.8E-06	
Localized Fire Threatens TC/DPC (VTC) in Preparation Area	2.5E-06	2.2E-06	
Localized Fire Threatens TC/DPC (VTC) in Vestibule/Preparation Area (Diesel Present)	4.9E-07	4.4E-07	4.9E-06
Localized Fire Threatens TC/DPC (VTC) in Preparation Area (No Diesel Present)	1.9E-06	1.7E-06	
Localized Fire Threatens TC/DPC (VTC) in Preparation Area	2.5E-06	2.2E-06	
Large Fire Threatens TC/DPC (VTC) (No Diesel)	1.7E-05	1.6E-05	2.7E-05
Large Fire Threatens TC/DPC (VTC) (Diesel)	1.2E-06	1.1E-06	
Large Fire Threatens DPC (VTC) in AO (Diesel)	8.5E-06	7.7E-06	
Localized Fire Threatens TC/DOE SNF in Vestibule/Preparation Area w/SPM (Diesel Present)	4.9E-07	4.4E-07	5.2E-06
Localized Fire Threatens TC/DOE SNF in Preparation Area w/o SPM (No Diesel Present)	2.2E-06	2.0E-06	
Localized Fire Threatens TC/DOE SNF on CTT in Preparation Area	2.5E-06	2.2E-06	
Large Fire Threatens DOE SNF in Staging Area	5.8E-01	5.3E-01	5.8E-01
Large Fire Threatens DOE SNF in CTM (per canister)	6.4E-07	5.8E-07	
Large Fire Threatens TC/DOE SNF (Diesel Present)	1.2E-06	1.1E-06	
Large Fire Threatens TC/DOE SNF (No Diesel)	1.8E-05	1.7E-05	
Localized Fire Threatens TC/MCO/DOE SNF in Vestibule/Preparation Area w/SPM (Diesel Present)	4.9E-07	4.4E-07	5.2E-06
Localized Fire Threatens TC/MCO/DOE SNF in Preparation Area w/o SPM (No Diesel Present)	2.2E-06	2.0E-06	
Localized Fire Threatens TC/DOE SNF on CTT in Preparation Area	2.5E-06	2.2E-06	
Large Fire Threatens TC/DOE SNF (Diesel Present)	1.2E-06	1.1E-06	2.0E-05
Large Fire Threatens TC/DOE SNF (No Diesel)	1.8E-05	1.7E-05	
Large Fire Threatens DOE SNF-MCO in CTM (per canister)	6.4E-07	5.8E-07	
Localized Fire Threatens TC/HLW in Vestibule/Preparation Area w/SPM (Diesel Present)	4.9E-07	4.4E-07	5.4E-06
Localized Fire Threatens TC/HLW in Preparation Area w/o SPM (No Diesel Present)	2.6E-06	2.3E-06	
Localized Fire Threatens TC/HLW on CTT in Preparation Area	2.3E-06	2.1E-06	
Large Fire Threatens TC/HLW (Diesel Present)	1.2E-06	1.1E-06	2.9E-05
Large Fire Threatens TC/HLW (No Diesel)	2.0E-05	1.8E-05	
Large Fire Threatens HLW in CTM (per indiv canister)	8.6E-07	7.8E-07	
Large Fire Threatens HLW in WP	7.3E-06	6.6E-06	

Localized Fire Threatens TC/TAD on CTT in Unloading Room	1.2E-07	1.1E-07	2.5E-07
Localized Fire Threatens TAD in AO in Unloading Room (Diesel Present)	1.3E-07	1.1E-07	
Localized Fire Threatens TC/TAD in Vestibule/Preparation Area w/SPM (Diesel Present)	4.7E-07	4.2E-07	8.2E-06
Localized Fire Threatens TC/TAD in Preparation Area w/o SPM (No Diesel Present)	2.2E-06	2.0E-06	
Localized Fire Threatens TAD in AO in Vestibule/Preparation Area (Diesel Present)	2.9E-06	2.6E-06	
Localized Fire Threatens TC/TAD on CTT in Preparation Area	2.6E-06	2.4E-06	
Localized Fire Threatens TC/TAD in Vestibule/Preparation Area w/SPM (Diesel Present)	4.7E-07	4.2E-07	5.3E-06
Localized Fire Threatens TC/TAD in Preparation Area w/o SPM (No Diesel Present)	2.2E-06	2.0E-06	
Localized Fire Threatens TC/TAD on CTT in Preparation Area	2.6E-06	2.4E-06	
Localized Fire Threatens TAD/WP in TEV in Loadout Room	1.9E-07	1.7E-07	9.2E-07
Localized Fire Threatens TAD in WP in Loadout Room	7.3E-07	6.6E-07	
Large Fire Threatens TC/TAD (Diesel Present)	1.2E-06	1.1E-06	8.8E-05
Large Fire Threatens TC/TAD (No Diesel)	1.9E-05	1.7E-05	
Large Fire Threatens TAD in AO (Diesel Present)	6.5E-06	5.9E-06	
Large Fire Threatens TAD in WP in WPTT	5.9E-05	5.4E-05	
Large Fire Threatens TAD in WP in TEV	1.0E-06	9.2E-07	
Large Fire Threatens TAD in CTM	8.6E-07	7.8E-07	
Localized Fire Threatens H&D in WP in TEV in Loadout Room	1.9E-07	1.7E-07	9.2E-07
Localized Fire Threatens H&D in WP in Loadout Room	7.3E-07	6.6E-07	
Localized Fire Threatens H&M in WP in TEV in Loadout Room	1.9E-07	1.7E-07	9.2E-07
Localized Fire Threatens H&M in WP in Loadout Room	7.3E-07	6.6E-07	

EF	Type
2.2E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.1E+00	Lognormal
2.1E+00	Lognormal
2.0E+00	Lognormal
2.0E+00	Lognormal
2.3E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.3E+00	Lognormal
2.5E+00	Lognormal
2.4E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal

2.2E+00	Lognormal
2.1E+00	Lognormal
2.2E+00	Lognormal
2.1E+00	Lognormal
2.1E+00	Lognormal
2.0E+00	Lognormal
2.3E+00	Lognormal
2.2E+00	Lognormal
2.0E+00	Lognormal
2.0E+00	Lognormal
1.9E+00	Lognormal
2.3E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.2E+00	Lognormal
2.1E+00	Lognormal
2.0E+00	Lognormal
2.3E+00	Lognormal
2.4E+00	Lognormal
2.2E+00	Lognormal
2.1E+00	Lognormal
2.2E+00	Lognormal
2.3E+00	Lognormal
2.0E+00	Lognormal
2.1E+00	Lognormal
2.2E+00	Lognormal
2.0E+00	Lognormal
2.1E+00	Lognormal

2.2E+00	Lognormal
2.2E+00	Lognormal

Sum median	
1.7E-07	2.1E+00
8.2E-06	2.1E+00
4.4E-06	2.1E+00
2.4E-05	2.0E+00
4.6E-06	2.2E+00
5.3E-01	2.1E+00
4.6E-06	2.2E+00
1.8E-05	1.9E+00
4.9E-06	2.1E+00
2.6E-05	2.2E+00

2.2E-07	2.2E+00
---------	---------

7.4E-06	2.1E+00
---------	---------

4.8E-06	2.1E+00
---------	---------

8.3E-07	2.1E+00
---------	---------

8.0E-05	2.1E+00
---------	---------

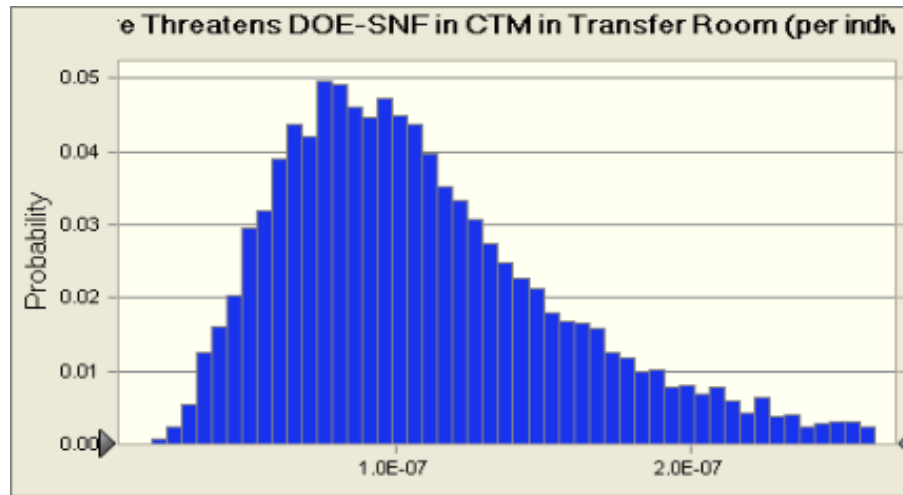
8.3E-07	2.1E+00
---------	---------

8.3E-07	2.1E+00
---------	---------

Forecast: Localized Fire Threatens DOE-SNF in CTM in Transfer Room (per individual canister)

Summary:

Entire range is from 1.2E-08 to 5.6E-07
 Base case is 1.0E-07
 After 10,000 trials, the std. error of the mean is 5.4E-10



Statistics:	Forecast values
Trials	10,000
Mean	1.1E-07
Median	1.0E-07
Mode	---
Standard Deviation	5.4E-08
Variance	2.9E-15
Skewness	1.33
Kurtosis	5.85
Coeff. of Variability	0.4813
Minimum	1.2E-08
Maximum	5.6E-07
Range Width	5.5E-07
Mean Std. Error	5.4E-10

Forecast: Localized Fire Threatens DOE-SNF in CTM in Transfer Room (per individual canister) (cont'd)

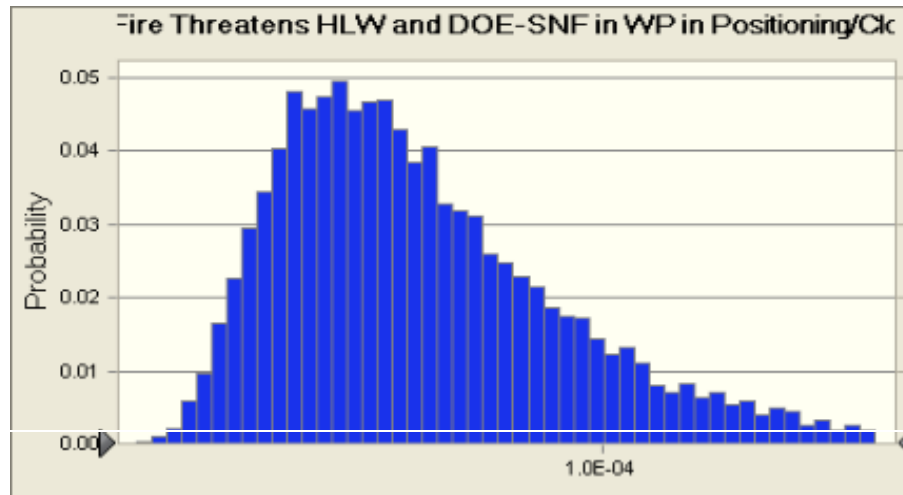
Percentiles:	Forecast values
0%	1.2E-08
10%	5.5E-08
20%	6.8E-08
30%	7.9E-08
40%	9.0E-08
50%	1.0E-07
60%	1.1E-07
70%	1.3E-07

80%	1.5E-07
90%	1.8E-07
100%	5.6E-07

Forecast: Localized Fire Threatens HLW and DOE-SNF in WP in Positioning/Closure Room

Summary:

Entire range is from 8.3E-06 to 3.1E-04
 Base case is 6.0E-05
 After 10,000 trials, the std. error of the mean is 3.1E-07



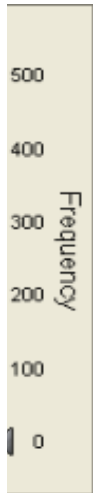
Statistics:	Forecast values
Trials	10,000
Mean	6.6E-05
Median	5.9E-05
Mode	9.4E-05
Standard Deviation	3.1E-05
Variance	9.8E-10
Skewness	1.36
Kurtosis	5.90
Coeff. of Variability	0.4755
Minimum	8.3E-06
Maximum	3.1E-04
Range Width	3.0E-04
Mean Std. Error	3.1E-07

Forecast: Localized Fire Threatens HLW and DOE-SNF in WP in Positioning/Closure Room

Percentiles:	Forecast values
0%	8.3E-06
10%	3.3E-05
20%	4.0E-05
30%	4.7E-05
40%	5.3E-05

50%	5.9E-05
60%	6.7E-05
70%	7.6E-05
80%	8.8E-05
90%	1.1E-04
100%	3.1E-04

Cell: O196

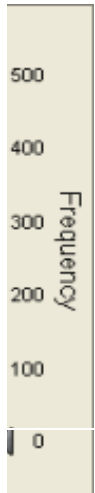


Forecast Values	Excel Calculated Percentile	Crystal Ball Percentile	Difference
1.18E-08	0.00	0	0.00
5.49E-08	8.68	10	1.32
6.8E-08	18.84	20	1.16
7.9E-08	29.08	30	0.92
9.0E-08	39.81	40	0.19
1.0E-07	49.98	50	0.02
1.1E-07	59.86	60	0.14
1.3E-07	70.27	70	0.27
1.5E-07	80.58	80	0.58
1.8E-07	90.82	90	0.82
5.6E-07	99.99	100	0.01
Mu	-16.1067	Mean	1.12E-07
Sigma	0.4496	Median	1.01E-07

**The Forecast Values are calculated by Crystal Ball according to the pre-determined Percentiles. To check that this distribution is lognormal, Excel function LOGNORMDIST was utilized to calculate the percentiles based on the forecast values. The Calculated Percentile and Standard Percentile columns are compared and found to be well matched, indicating that the distribution is a good fit for lognormal.

Cell: O196

Cell: O31



Forecast Values	Calculated Percentile	Standard Percentile	Difference
8.3E-06	0.00	0	0.00
3.3E-05	10.66	10	0.66
4.0E-05	20.27	20	0.27
4.7E-05	30.30	30	0.30
5.3E-05	40.33	40	0.33
5.9E-05	49.99	50	0.01
6.7E-05	59.91	60	0.09
7.6E-05	70.13	70	0.13
8.8E-05	80.31	80	0.31
1.1E-04	89.94	90	0.06
3.1E-04	99.98	100	0.02
Mu	-9.73	Mean	6.6E-05
Sigma	0.46	Median	5.9E-05

Cell: O31

