From: Naeem IQBAL, NRR
To: Ronald Langstaff
Date: 07/29/2004 1:48:47 PM
Subject: Kewaunee Nuclear Plant Fire Modeling Results

Ron,

Attached is the summary of the primarily CFAST fire modeling results for Radiation Protection Office along with TLD Issue Room and HP Office.

Please give me a call if you have any questions.

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NRR Primarily CFAST Fire Modeling Results								
Kewaunee Nuclear Plant								
Fire in Radition Protection Office								
t^2 Medium Fire Growth Rate								
Door at Location 56 is Open								
SI System					**English System**			
	Rad Pro Office	TLD Issue RM	HP Office			Rad Pro Office	TLD Issue RM	HP Office
Time (sec)	Hot Gas Layer	Hot Gas Layer	Hot Gas Layer		Time (sec)	Hot Gas Layer	Hot Gas Layer	Hot Gas Layer
(sec)	Temp (°C)	Temp (°C)	Temp (°C)		(min)	Temp (°F)	Temp (°F)	Temp (°F)
0	25	25	25		0	77	77	77
60	50	34.6	25		1	122	94.28	77
120	109	67.7	37.9		2	228.2	153.86	100.22
180	170	109	49.8		3	338	228.2	121.64
240	279	192	83.4		4	534.2	377.6	182.12
300	361	269	135		5	681.8	516.2	275
360	424	321	183		6	795.2	609.8	361.4
420	489	368	226		7	912.2	694.4	438.8
480	534	399	254		8	993.2	750.2	489.2
540	541	406	260		9	1005.8	762.8	500
600	543	408	263		10	1009.4	766.4	505.4
660	544	410	264		11	1011.2	770	507.2
720	545	412	266		12	1013	773.6	510.8
780	546	413	267		13	1014.8	775.4	512.6
840	547	415	268		14	1016.6	779	514.4
900	548	416	269		15	1018.4	780.8	516.2
960	549	417	270		16	1020.2	782.6	518
1020	550	419	271		17	1022	786.2	519.8
1080	551	420	272		18	1023.8	788	521.6
1140	552	421	273		19	1025.6	789.8	523.4
1200	553	422	274		20	1027.4	791.6	525.2
1260	554	423	275		21	1029.2	793.4	527
1320	554	424	275		22	1029.2	795.2	527
1380	555	425	276		23	1031	797	528.8
1440	556	426	277		24	1032.8	798.8	530.6
1500	557	427	278		25	1034.6	800.6	532.4
1560	557	428	278		26	1034.6	802.4	532.4
1620	558	429	279		27	1036.4	804.2	534.2
1680	559	429	280		28	1038.2	804.2	536
1740	559	430	280		29	1038.2	806	536
1800	560	431	281		30	1040	807.8	537.8