

- The total heat release of approximately 3.9 GJ and mass loss of approximately about 200 kg were insensitive to the addition of jet fuel or inert material. Approximately 75 percent of the heat release and mass loss occurred over a period of approximately 20 min.
- There was essentially no interaction between the effects of the jet fuel and the surface coverage by inert materials.
- The ignition of the cubicle was facilitated by the presence of paper on the desktop, but was probably not sensitive to the mass of this paper. The total heat release from the burning cubicle would be sensitive to the mass of paper, both on the desktop and in the filing cabinets.
- A key step in reaching the peak was the flashover of the “compartment” under the desk.

Table 3–5. Key results from the workstation fire test burns.

Quantity	Test					
	1	2	3	4	5	6
Workstation	½ Generic	Generic	Generic	WTC	Generic	Generic
Tiles	N	N	Y	N	N	Y
Jet fuel	N	N	N	N	Y	Y
Peak HRR ^a (MW)	5.92/5.77	8.70/8.48	7.56/7.30	9.89/9.66	9.12/8.91	7.960/7.60
Time to peak (s)	490	530	590	510	160	200
Net peak HRR ^a (MW)	3.82/3.67	6.95/6.73	5.53/5.27	7.72/7.46	7.38/7.17	6.17/5.95
Peak MLR (kg/s)	0.197	0.308	0.263	0.420	0.336	0.293
Time to peak (s)	480	530	560	490	160	180
Net heat released (GJ)	1.20	4.05	4.13	2.93	3.60	3.74
Time interval ^b (s)	150 to 1,265	50 to 3,200	160 to 3,600	30 to 2,100	0 to 2,500	20 to 2,520
Total mass loss (kg)	69.1	205.0	213.6	173.6	200.2	205.3
Effective heat of combustion (MJ/kg)	17.4	19.8	19.3	16.9 ^c	18.0	18.2
FWHH ^d (s)		244	445		318	451
t (75 %) ^e		1,311	1,453		833	1,009
t _{ig} ^f (s) (item ignited)	39 (paper)	67 (paper)	56 (paper)	50 (paper)	90 (Jet A)	114 (paper)

- a. The first number is the calorimeter output; the second is a 10 s average about the absolute peak.
- b. The time interval applies to both the net heat released and to the total mass loss.
- c. There was some spillage of smoke in Test 4, which may partly account for the lower heat of combustion.
- d. Full width half height of net heat release rate curve.
- e. Time at which 75 percent of mass had been lost.
- f. Time of ignition of first object within workstation.