

RESULTS OF THE FIRST TWO EXPERIMENTS WITH ELECTRICAL OVERLOAD
OF WIRE IN A ROOM SIZE ENCLOSURE AT SWRI

COMBUSTION PRODUCT	MAXIMUM OBSERVED CONCENTRATION OF COMBUSTION PRODUCT							
	SAMPLE PROBE LOCATION ^(a)							
	PLENUM SPACE				LIVING SPACE			
	1	2	3	4	5	6	7	
First Experiment								
340 amps at 6.5 volts								
HCl, ppm	2370	2890	2520	2620	90	90	100	
CO ₂ , %	0.46	0.47	0.46	--	0.01	0.01	--	
CO, ppm	520	540	560	--	60	50	--	
CH _x , ppm	1760	2130	2180	--	970	380	--	
OD/ft.		2.9					0.6	
Second Experiment								
180 amps at 7.0 volts								
HCl, ppm	2880	2950	2770	3080	50	30	40	
CO ₂ , %	0.59	0.61	0.63	--	0.03	0.03	--	
CO, ppm	600	600	680	--	300	N.D.	--	
CH _x , ppm	1910	2250	2300	--	1070	500	--	
OD/ft.		2.9					0.6	

- (a)
- 1 - 1 foot above false ceiling, at plenum center
 - 2 - 3 feet above false ceiling, at plenum center
 - 3 - 2 feet above false ceiling, 1 foot from side wall
 - 4 - 2 feet above false ceiling, 2 feet from back wall
 - 5 - 7 foot level, room center
 - 6 - 5 foot level, room center
 - 7 - 1 foot below false ceiling, 1 foot from side wall