

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	479
4	EPA ID No.	NYD080469935
5	Facility Name	THERMALKEM (NORLITE)
6	Facility Location	
7	City	Cohoes
8	State	NY
9	Unit ID Name/No.	Kiln No. 2
10	Other Sister Facilities	
11	Number of Sister Facilities	Sister unit of ID No. 307
12	Combustor Class	Lightweight Aggregate Kiln (LWAK)
13	Combustor Type	
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	MC/HE/FF/VS/DM
18	APCS General Class	C, HE, FF, HEWS
19	APCS Characteristics	
20	Hazardous Wastes	Liq, solid
21	Haz Waste Description	NOS. 2,4,6 FUEL OIL, NG, LGF
22	Supplemental Fuel	
23		
24	Stack Characteristics	
25	Diameter (ft)	5.0
26	Height (ft)	0.0
27	Gas Velocity (ft/sec)	10.7
28	Gas Temperature (°F)	138.8
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	479C1	
4		
5	Report Name/Date	Supplemental Low Grade Fuel Trial Burn, Kiln No. 2, Norlite Corporation, Cohoes, New York, June 1990, Prepared by APCC
6	Report Prepare	APCC
7	Testing Firm	APCC
8	Cond Descr	100% LOW GRADE FUEL (LGF)
9	Testing Dates	June 12-13, 1990
10	Cond Dates	Jun-90
11		
12	479C2	
13		
14	Report Name/Date	Supplemental Low Grade Fuel Trial Burn, Kiln No. 2, Norlite Corporation, Cohoes, New York, June 1990, Prepared by APCC
15	Report Prepare	APCC
16	Testing Firm	APCC
17	Cond Descr	100% COAL
18	Testing Dates	June 15, 1990
19	Cond Dates	Jun-90

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Stack Gas Emissions 2																	
2																		
3																		
4	479C1					R1	R2	R3	R4	R5	R6	Cond Avg						
5																		
6	PM	E1	gr/dscf	y		0.01447	0.01297	0.01782	0.01914									0.01610
7	CO (RA)	E3	ppmv	y					39.00	45.00	56.00							
8	HCl	E1	ppmv	y		4.38	4.18	4.51										4.36
9	Arsenic	E2	ug/dscm	y		5.69	4.00	4.86	3.03									4.4
10	Cadmium	E2	ug/dscm	y	nd	2.27	nd	1.54	nd	3.60	7.31							3.7
11	Chromium	E2	ug/dscm	y		12.01	8.78	15.82	12.36									12.2
12	Copper	E2	ug/dscm	y		11.61	7.20	1.14	0.57									5.1
13	Lead	E2	ug/dscm	y		11.17	9.69	9.17	7.56									9.4
14	Zinc	E2	ug/dscm	y		122.52	81.46	86.07	59.10									87.3
15	SVM	E2	ug/dscm	y		13.44	11.23	12.77	14.87									13.1
16	LVM	E2	ug/dscm	y		17.71	12.79	20.68	15.39									16.6
17																		
18	1,1,1-Trichloroethane	DRE	%						99.999	99.9992	99.9994							
19	Carbon Tetrachloride	DRE	%						99.9997	99.9994	99.9995							
20	Tetrachloroethene	DRE	%						99.9996	99.9993	99.9993							
21																		
22	Sampling Train	Halogens	E1															
23	Stack Gas Flowrate		dscfm			30063	30719	30630										
24	O2		%			14.8	15.1	15.4										
25	Moisture		%			16.6	15.9	15.7										
26	Temperature		°F			138	137	139										
27																		
28	Sampling Train	Metals	E2															
29	Stack Gas Flowrate		dscfm			30063	30719	30630	31058									
30	O2		%			14.8	15.1	15.4	15.4									
31	Moisture		%			16.56	15.88	15.66	15.85									
32	Temperature		°F			138	137	139	141									
33																		
34	Sampling Train	THC & CO	E3															
35	Stack Gas Flowrate		dscfm						31058	31058	30006							
36	O2		%						15.4	15.14286	15.14286							
37	Moisture		%															
38	Temperature		°F															
39																		
40	479C2					R1	R2	R3	R4	R5	R6	Cond Avg						
41																		
42	PM	E1	gr/dscf	y		0.01862	0.01505	0.01632										0.01667
43	CO (RA)	E1	ppmv	y					29.00	34.00	27.00							30.00
44	HCl	E1	ppmv	y		4.49	2.84	4.91										4.08
45	Arsenic	E2	ug/dscm	y		3.18	5.04	4.88										4.37
46	Cadmium	E2	ug/dscm	y		1.97	1.85	1.62										1.82
47	Chromium	E2	ug/dscm	y		11.12	4.42	9.68										8.40
48	Copper	E2	ug/dscm	y		1.97	1.85	1.62										1.82
49	Lead	E2	ug/dscm	y		5.59	7.20	4.01										5.60
50	Zinc	E2	ug/dscm	y		17.97	24.28	1.62										14.62
51	SVM	E2	ug/dscm	y		7.56	9.05	5.63										7.42
52	LVM	E2	ug/dscm	y		14.30	9.46	14.56										12.77
53																		
54	Sampling Train	Halogens	E1															
55	Stack Gas Flowrate		dscfm			31058	31911	31889										
56	O2		%			15.4	15.7	15.4										
57	Moisture		%			15.8	14.1	13.5										
58	Temperature		°F			141	138	142										
59																		
60	Sampling Train	Metals	E2															
61	Stack Gas Flowrate		dscfm			31911	31889	32108										
62	O2		%			15.7	15.4	14.7										
63	Moisture		%			14.13	13.48	14.26										
64	Temperature		°F			138	142	145										

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	Feedstream 2																								
2																									
3																									
4	479C1		R1	R2	R3	R4	R5	R6		R1		R2		R3		R4		R5		R6					
5																									
6	Feedstream Number		F1	F1	F1	F1	F1	F1	F2		F2		F2		F2		F2		F2		F2		F2		F2
7	Feed Class		Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Raw material		Raw material		Raw material		Raw material		Raw material		Raw material		Raw material		Raw material		Raw material
8	Feed Class 2		HW	HW	HW	HW	HW	HW	RM		RM		RM		RM		RM		RM		RM		RM		RM
9	Feedstream Description		Waste																						
10	Feedrate	gpm	10	10.1	9.9	10.2	10.1	10																	
11																									
12																									
13	Feedrate	lb/hr												6080	5760	6000	6320	6040	6140						

	C	D	E	F	G	H	I	J
1	Process Info 2							
2								
3	479C1		R1	R2	R3	R4	R5	R6
4								
5	Combustion Temperature	F	2659	2643	2620	2603	2606	2704
6	Cyclone Pressure Drop	in H2O	2.2	2.4	2.4	2.4	2.4	2.4
7	WS Pressure Drop	in H2O				6.3	6.1	6.2
8	FF Pressure Drop	in H2O	5.3	5.4	5.3	5.2	5	5
9								
10	479C2		R1	R2	R3	R4	R5	R6
11								
12	Combustion Temperature	F	2253	1534	1530	1533	1532	1533
13	Cyclone Pressure Drop	in H2O	2.7	2.7	2.7	2.7	2.5	2.6
14	WS Pressure Drop	in H2O	5	5	5	4.7	4.7	4.6
15	FF Pressure Drop	in H2O	6	6.2	6	6	6	5.9