

US EPA ARCHIVE DOCUMENT

LWAK, LVM

	1	2	3	4	5	6	8	13	15	16	17	18	19
2	Source ID	Cond ID	Facility Information		Combustor Information		APCS Detailed Acronym	Hazardous Wastes	Munitions Popping Furnace	Chemical Weapons Demil	Mixed Radioactive Waste	Comm vs On-site	Gov't
3	Number	Number	Facility Name	City	Combustor Category	Combustor Class							
4													
5													
6	307	307C13	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
7	307	307C14	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
8	307	307C15	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
9	307	307C12	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
10	307	307C11	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
11	307	307C1	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
12	307	307C2	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
13	307	307C3	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
14	307	307C4	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
15	311	311C10	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
16	311	311C1	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
17	312	312C10	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
18	312	312C2	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
19	312	312C1	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
20	313	313C11	Solite Corp	Arvonnia	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	WQ/FF	Liq	No	No	No	Comm	No
21	313	313C1	Solite Corp	Arvonnia	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	WQ/FF	Liq	No	No	No	Comm	No
22	314	314C11	Solite Corp	Arvonnia	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	WQ/FF	Liq	No	No	No	Comm	No
23	314	314C3	Solite Corp	Arvonnia	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	WQ/FF	Liq	No	No	No	Comm	No
24	314	314C1	Solite Corp	Arvonnia	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	WQ/FF	Liq	No	No	No	Comm	No
25	336	336C12	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
26	336	336C3	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
27	474	474C10	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
28	474	474C1	Solite Corp	Cascade	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	QS/FF	Liq	No	No	No	Comm	No
29	476	476C11	Solite Corp	Arvonnia	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	WQ/FF	Liq	No	No	No	Comm	No
30	476	476C1	Solite Corp	Arvonnia	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	WQ/FF	Liq	No	No	No	Comm	No
31	479	307C13	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
32	479	307C14	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
33	479	307C15	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
34	479	307C12	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
35	479	307C11	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
36	479	307C1	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
37	479	307C2	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
38	479	307C3	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No
39	479	307C4	Norlite Corp.	Cohoes	Lightweight aggregate kiln	Lightweight Aggregate Kiln (LWAK)	HE/MC/FF/VS/ME	Liq, solid	No	No	No	Comm	No

LWAK, LVM

	2	20	21			22	23	24	25	26	27	30	31	32			34	36	38	40	58
2	Cond ID	Condition Information					Spiking			Tier			LVM Emissions			LVM Stack Emissions (ug/dscm), (ND in % of Total)					
3	Number	Cond	Cond Description			Cr	As	Be	Cr	As	Be	Camp	Rating	Rating Comments		R1	R2	R3	R4	Cond Avg	
4		Dates										No				Emiss	Emiss	Emiss	Emiss	Emiss	
5																					
6	307C13	7/1/2001	Risk Burn, metal feeds equiv. to Jan '97 perm	Y				3	U	U		1	IB	Only Cr spiked		2	2	2		2	
7	307C14	7/1/2001	Risk Burn, metal feeds equiv. to June '01 perm	Y				3	U	U		1	IB	Only Cr spiked		3	2	1		2	
8	307C15	7/1/2001	Risk Burn, lower FF temp	Y				3	U	U		1	IB	Only Cr spiked		2	3	3		3	
9	307C12	5/1/2000	Risk Burn, elevated waste feed rates, maxim	Y				3	U	U		2	IB	Only Cr spiked		3	3	2		3	
10	307C11	4/1/1999	Trial Burn, elevated operating temperature, m	Y				3		3	3	3	CT		77	36	14		42		
11	307C1	12/1/1992	CoC, LOW COMB TEMP, LOW HALOGEN F	Y				3	3	3		4	IB	Run outlier?	23	163	27	23	59		
12	307C2	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN I	Y				3	3	3		4	IB	Run 2 Cr emission outlier (739), not u	9		28	36	24		
13	307C3	12/1/1992	CoC, LOW COMB TEMP, HIGH HALOGEN F	Y				3	3	3		4	CT		155	106	69	118	112		
14	307C4	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN I	Y				3	3	3		4	IB	Run 3 Cr emission outlier?	48	53	302		134		
15	311C10	5/1/1999	COC, Metals SRE	Y				3	3	3		1	CT		25	12	18		18		
16	311C1	6/1/1992	CoC, MAX HW FEED,MAX RAW MATERIAL	Y				3	3	3		2	CT		32	27	19		26		
17	312C10	5/1/1999	COC, Metals SRE	Y				3	3	3		1	CT		17	26	37		27		
18	312C2	5/1/1995	CoC	Y				3	3	3		2	CT		96	134	170		134		
19	312C1	8/8/1992	CoC, MAX HW FEED, MAX RAW MATERIAL	Y				3	3	3		3	CT		33	50	17		33		
20	313C11	5/1/1999	CoC, metals and chlorine SRE testing	Y				3	3	3		1	CT		210	217	181		202		
21	313C1	8/8/1992	MAX HW FEED,MAX RAW MATERIAL	Y				3	3	3		2	CT		16	57	46		40		
22	314C11	5/1/1999	CoC, metals SRE	Y				3	3	3		1	CT		215	105	98		139		
23	314C3	5/1/1995	MAX HW FEED,MAX RAW MATERIAL	Y				3	3	3		2	CT	High LVM level in HW, likely from unrr	9	12	27		16		
24	314C1	8/8/1992	MAX HW FEED,MAX RAW MATERIAL	Y				3	3	3		3	CT		9	121	144		91		
25	336C12	5/1/1999	COC, Metals SRE	Y				3	3	3		1	NA	Metals data from 311C10	25	12	18		18		
26	336C3	5/1/1995	L					3	3	3		2	CT		38	8	16		21		
27	474C10	5/1/1999	COC, Metals SRE	Y				3	3	3		1	CT		30	27	30		29		
28	474C1	6/1/1993	?	Y				3	3	3		2	CT		26	53	21		34		
29	476C11	12/1/1999	CoC, high temperature metals and chlorine te	Y				3	3	3		1	CT		87	77	44		70		
30	476C1	2/1/1993	?	Y				3	3	3		2	CT		109	109	114		111		
31	307C13	7/1/2001	Risk Burn, metal feeds equiv. to Jan '97 perm	Y				3	U	U		1	NA	Only Cr spiked; Data from sister kiln 3	2	2	2		2		
32	307C14	7/1/2001	Risk Burn, metal feeds equiv. to June '01 perm	Y				3	U	U		1	NA	Only Cr spiked; Data from sister kiln 3	3	2	1		2		
33	307C15	7/1/2001	Risk Burn, lower FF temp	Y				3	U	U		1	NA	Only Cr spiked; Data from sister kiln 3	2	3	3		3		
34	307C12	5/1/2000	Risk Burn, elevated waste feed rates, maxim	Y				3	U	U		2	NA	Only Cr spiked; Data from sister kiln 3	3	3	2		3		
35	307C11	4/1/1999	Trial Burn, elevated operating temperature, m	Y				3		3	3	3	NA	Data from sister kiln 307	77	36	14		42		
36	307C1	12/1/1992	CoC, LOW COMB TEMP, LOW HALOGEN F	Y				3	3	3		4	NA	Data from sister kiln 307	23	163	27	23	59		
37	307C2	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN I	Y				3	3	3		4	NA	Run 2 Cr emission outlier, not used in	9	739	28	36	203		
38	307C3	12/1/1992	CoC, LOW COMB TEMP, HIGH HALOGEN F	Y				3	3	3		4	NA	Data from sister kiln 307	155	106	69	118	112		
39	307C4	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN I	Y				3	3	3		4	NA	Run 3 Cr emission outlier, not used in	48	53	302		134		

LWAK, LVM

	2	61	62	63	64	65	66	67	68	69	70	71	82	83	86	87	88	89	90	91	92	93	104	105
2	Cond ID	LVM SRE			LVM SRE (%)										LVM SRE Used for Ranking Purposes (%)									
3	Number	Campaign	Rating	Comment	R1	R2	R3	R4	Cond Avg	R1	R2	R3	R4	Cond Avg										
4		Number																						
5																								
6	307C13	1 NA	Normal		99.998	99.998	99.997		99.998	99.998	99.998	99.997		99.998										
7	307C14	1 NA	Normal		99.997	99.998	99.998		99.997	99.997	99.998	99.998		99.997										
8	307C15	1 NA	Normal		99.998	99.996	99.997		99.997	99.998	99.996	99.997		99.997										
9	307C12	2 NA	Normal		99.996	99.995	99.997		99.996	99.996	99.995	99.997		99.996										
10	307C11	3 CT			99.901	99.959	99.979		99.945	99.901	99.959	99.979		99.945										
11	307C1	4 IB			99.978	99.843	99.973	99.977	99.942	99.978	99.843	99.973	99.977	99.942										
12	307C2	4 CT	R2 (99.45) removed		99.990	99.451	99.972	99.957	99.802	99.990	99.972	99.957		99.802										
13	307C3	4 IB			99.835	99.873	99.931	99.890	99.884	99.835	99.873	99.931	99.890	99.884										
14	307C4	4 IB			99.950	99.946	99.719		99.866	99.950	99.946	99.719		99.866										
15	311C10	1 CT			99.983	99.992	99.988		99.987	99.983	99.992	99.988		99.987										
16	311C1	2 CT			99.969	99.980	99.985		99.979	99.969	99.980	99.985		99.979										
17	312C10	1 CT			99.988	99.985	99.983		99.985	99.988	99.985	99.983		99.985										
18	312C2																							
19	312C1	3 CT			99.977	99.959	99.986		99.974	99.977	99.959	99.986		99.974										
20	313C11	1 CT			99.855	99.856	99.885		99.866	99.855	99.856	99.885		99.866										
21	313C1	2 CT			99.982	99.951	99.960		99.963	99.982	99.951	99.960		99.963										
22	314C11	1 CT			99.862	99.914	99.923		99.897	99.862	99.914	99.923		99.897										
23	314C3	2 CT			99.994	99.992	99.982		99.989	99.994	99.992	99.982		99.989										
24	314C1	3 CT			99.989	99.860	99.864		99.902	99.989	99.860	99.864		99.902										
25	336C12	1 NA	Data in lieu		99.983	99.992	99.988		99.987	99.983	99.992	99.988		99.987										
26	336C3																							
27	474C10	1 CT			99.985	99.986	99.984		99.985	99.985	99.986	99.984		99.985										
28	474C1	2 CT			99.986	99.966	99.988		99.980	99.986	99.966	99.988		99.980										
29	476C11	1 CT			99.951	99.956	99.976		99.961	99.951	99.956	99.976		99.961										
30	476C1	2 CT		>	99.879 >	99.874 >	99.851	>	99.869 >	99.879 >	99.874 >	99.851	>	99.869										
31	307C13	1 NA	Data in lieu		99.998	99.998	99.997		99.998	99.998	99.998	99.997		99.998										
32	307C14	1 NA	Data in lieu		99.997	99.998	99.998		99.997	99.997	99.998	99.998		99.997										
33	307C15	1 NA	Data in lieu		99.998	99.996	99.997		99.997	99.998	99.996	99.997		99.997										
34	307C12	2 NA	Data in lieu		99.996	99.995	99.997		99.996	99.996	99.995	99.997		99.996										
35	307C11	3 NA	Data in lieu		99.901	99.959	99.979		99.945	99.901	99.959	99.979		99.945										
36	307C1	4 NA	Data in lieu		99.978	99.843	99.973	99.977	99.942	99.978	99.843	99.973	99.977	99.942										
37	307C2	4 NA	Data in lieu		99.990	99.451	99.972	99.957	99.802	99.990	99.451	99.972	99.957	99.802										
38	307C3	4 NA	Data in lieu		99.835	99.873	99.931	99.890	99.884	99.835	99.873	99.931	99.890	99.884										
39	307C4	4 NA	Data in lieu		99.950	99.946	99.719		99.866	99.950	99.946	99.719		99.866										

LWAK, LVM

	2	108	109	110	113	114	115	116	117	118	119	120	121	138	139	155	156	157	
2	Cond ID	LVM Feedrate (ug/dscm)				LVM Feedrate Total (ug/dscm)										Thermal Emissions Rating			
3	Number	HW	Spike	RM	Total	ND	R1	ND	R2	ND	R3	ND	R4	Cond Avg	Camp No	Rating	Rating	Comments	
4																			
5																			
6	307C13	5,549	51,138	30,698	87,384		98,450		85,857		77,846			87,384					
7	307C14	4,601	46,678	28,409	79,688		82,291		79,746		77,027			79,688					
8	307C15	4,817	51,565	32,484	88,866		91,806		85,699		89,092			88,866					
9	307C12	1,618	43,447	34,275	79,339		82,281		72,779		82,957			79,339					
10	307C11	1,475	46,188	29,285	76,948		77,909		87,460		65,475			76,948			1	CT	
11	307C1	546	41,567	60,155	102,267		103,975		103,652		101,152		100,291	102,267			2	IB	
12	307C2	570	44,603	57,344	102,516		92,548		134,709		98,617		84,190	102,516			2	CT	R2 (267 removed as outlier)
13	307C3	3,282	41,140	51,732	96,154		94,045		83,399		100,122		107,048	96,154			2	IB	
14	307C4	839	32,235	52,745	99,882		94,177		97,915		107,553			99,882			2	IB	
15	311C10	1,184	82,903	59,388	143,475		146,831		140,040		143,554			143,475			1	CT	
16	311C1	1,848	37,916	83,489	123,253		105,844		138,308		125,606			123,253			2	CT	
17	312C10	1,318	120,389	60,107	181,814		148,798		177,270		219,374			181,814			1	CT	
18	312C2																		
19	312C1	854	44,935	82,979	128,767		142,645		121,837		121,818			128,767			3	CT	
20	313C11	3,414	123,243	24,116	150,772		145,156		150,238		156,924			150,772			1	CT	
21	313C1				105,994		84,664		117,796		115,522			105,994			2	CT	
22	314C11	1,345	109,001	24,285	134,631		156,132		121,687		126,073			134,631			1	CT	
23	314C3	101,244		51,025	152,268		154,390		150,556		151,859			152,268					
24	314C1	5,974	45,653	41,422	93,048		87,137		86,380		105,628			93,048			3	CT	
25	336C12	1,184	82,903	59,388	143,475		146,831		140,040		143,554			143,475					
26	336C3																		
27	474C10	1,526	129,803	59,474	190,804		197,160		189,118		186,133			190,804			1	CT	
28	474C1	41,753	22,278	107,023	171,055		182,487		156,511		174,166			171,055			2	CT	
29	476C11	345	150,998	27,842	179,185		175,814		176,657		185,084			179,185			1	CT	
30	476C1	6,932	53,421	24,137	84,490	0	89,944	0	86,569	0	76,956		0	84,490			2	CT	
31	307C13	5,549	51,138	30,698	87,384		98,450		85,857		77,846			87,384					
32	307C14	4,601	46,678	28,409	79,688		82,291		79,746		77,027			79,688					
33	307C15	4,817	51,565	32,484	88,866		91,806		85,699		89,092			88,866					
34	307C12	1,618	43,447	34,275	79,339		82,281		72,779		82,957			79,339					
35	307C11	1,475	46,188	29,285	76,948		77,909		87,460		65,475			76,948			3	NA	Data in lieu
36	307C1	546	41,567	60,155	102,267		103,975		103,652		101,152		100,291	102,267			4	NA	Data in lieu
37	307C2	570	44,603	57,344	102,516		92,548		134,709		98,617		84,190	102,516			4	NA	Data in lieu
38	307C3	3,282	41,140	51,732	96,154		94,045		83,399		100,122		107,048	96,154			4	NA	Data in lieu
39	307C4	839	32,235	52,745	99,882		94,177		97,915		107,553			99,882			4	NA	Data in lieu

LWAK, LVM

	2	159	161	163	165	173	175	177	179	181	189
2	Cond ID	LVM HW Thermal Emiss (lb/1012 Btu)					LVM in HW (lb/10 ⁹ Btu)				
3	Number	R1	R2	R3	R4	Cond Avg	R1	R2	R3	R4	Cond Avg
4											
5											
6	307C13										
7	307C14										
8	307C15										
9	307C12										
10	307C11	80.56	33.78	9.99		41.4	81.07	83.17	47.87		70.7
11	307C1	10.18	68.06	12.53	10.42	25.3	46.06	43.24	47.06	45.63	45.5
12	307C2	5.11		12.78	21.85	13.2	50.21	48.83	45.40	50.75	48.8
13	307C3	96.24	75.20	39.06	75.35	71.5	58.24	59.41	56.41	68.53	60.6
14	307C4	27.63	25.98	128.37		60.7	54.72	47.98	45.75		49.5
15	311C10	17.08	9.62	16.58		14.4	99.36	116.99	134.50		116.9
16	311C1	11.77	10.06	7.60		9.8	38.50	50.80	49.05		46.1
17	312C10	11.45	18.90	24.91		18.4	98.19	130.15	149.15		125.8
18	312C2										
19	312C1	7.90	15.15	6.07		9.7	34.63	37.23	44.62		38.8
20	313C11	189.97	221.70	154.37		188.7	131.42	153.51	134.12		139.7
21	313C1	7.56	26.79	23.84		19.4	41.12	55.02	59.68		51.9
22	314C11	190.98	82.70	90.23		121.3	138.74	96.23	116.56		117.2
23	314C3										
24	314C1	3.71	44.84	57.96		35.5	34.37	32.08	42.50		36.3
25	336C12						99.36	116.99	134.50		116.9
26	336C3										
27	474C10	20.47	15.56	17.28		17.8	133.41	110.62	106.38		116.8
28	474C1	9.27	18.69	7.31		11.8	64.14	55.26	59.48		59.6
29	476C11	67.44	62.63	37.08		55.7	136.39	142.88	154.88		144.7
30	476C1	78.65	37.96	84.02		66.9	64.82	30.10	56.43		50.5
31	307C13										
32	307C14										
33	307C15										
34	307C12										
35	307C11	80.56	33.78	9.99		41.4	81.07	83.17	47.87		70.7
36	307C1	10.18	68.06	12.53	10.42	25.3	46.06	43.24	47.06	45.63	45.5
37	307C2	5.11	267.93	12.78	21.85	76.9	50.21	48.83	45.40	50.75	48.8
38	307C3	96.24	75.20	39.06	75.35	71.5	58.24	59.41	56.41	68.53	60.6
39	307C4	27.63	25.98	128.37		60.7	54.72	47.98	45.75		49.5