

US EPA ARCHIVE DOCUMENT

LWAK, Mercury

	1	2	3	4	5	6	8	13	15	16	17	18	19
2	Source ID	Cond ID	Facility Information		Combustor Information		APCS	Hazardous	Munitions	Chemical	Mixed	Comm	Gov't
3	Number	Number	Facility	City	Combustor	Combustor	Detailed	Wastes	Popping	Weapons	Radioactive	vs On-site	
4			Name		Category	Class	Acronym		Furnace	Demil	Waste		
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, Mercury

	2	20	21	22	25	30	31	32	33	34	35	36	37	38	39	40	57	58
2	Cond ID	Condition Information			Hg		Hg Emissions			Hg Stack Emissions (ug/dscm)								
3	Number	Cond	Cond Description	Spiking	Tier	Campaign	Rating	Rating Comments	R1		R2		R3		R4		Cond Avg	
4		Dates				Number			ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss
5																		
6	307C13	7/1/2001	Risk Burn, metal feeds equiv. to Jan '97 permit				1 N			26.7		15.7		16.9				19.8
7	307C14	7/1/2001	Risk Burn, metal feeds equiv. to June '01 permit				1 N			11.6		10.2		10.5				10.7
8	307C15	7/1/2001	Risk Burn, lower FF temp				1 N			9.3		17.3		20.4				15.7
9	307C12	5/1/2000	Risk Burn, elevated waste feed rates, maximum temp		3		2 IB			32.2		29.6		30.6				30.8
10	307C11	4/1/1999	Trial Burn, elevated operating temperature, metals spi		3		3 CT			933.8		1,419.4		820.2				1,057.8
11	307C1	12/1/1992	CoC, LOW COMB TEMP, LOW HALOGEN FEED		3		4 IB			457.0		455.6		449.6		323.3		421.4
12	307C2	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN FEED		3		4 CT			415.4		403.1		666.2		760.0		561.2
13	307C3	12/1/1992	CoC, LOW COMB TEMP, HIGH HALOGEN FEED, HI		3		4 IB			431.7		461.3		483.2		498.5		468.7
14	307C4	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN FEED, H		3		4 IB			471.5		498.0		510.0				493.2
15	311C10	5/1/1999	COC, Metals SRE		1		1 N		100	2.9		4.8	100	2.5		53		3.4
16	311C1	6/1/1992	CoC, MAX HW FEED,MAX RAW MATERIAL		1		2 N		100	11.1	100	18.5	100	15.5		100		15.0
17	312C10	5/1/1999	COC, Metals SRE		1		1 N			3.5		4.4		6.5				4.8
18	312C2	5/1/1995	CoC		1		2 N			4.0		5.1		4.3				4.5
19	312C1	8/8/1992	CoC, MAX HW FEED, MAX RAW MATERIAL		1		3 N		100	10.5	100	7.6	100	8.8		100		9.0
20	313C11	5/1/1999	CoC, metals and chlorine SRE testing		1		1 N			3.8		3.5		3.3				3.5
21	313C1	8/8/1992	MAX HW FEED,MAX RAW MATERIAL		1		2 N		100	0.4	100	0.1	100	0.7		100		0.4
22	314C11	5/1/1999	CoC, metals SRE		1		1 N			3.2		14.4		12.7				10.1
23	314C3	5/1/1995	MAX HW FEED,MAX RAW MATERIAL		1		2 N		100	4.1	100	4.6		4.5		100		4.4
24	314C1	8/8/1992	MAX HW FEED,MAX RAW MATERIAL		1		3 N			16.0		25.3		25.2				22.2
25	336C12	5/1/1999	COC, Metals SRE		1		1 NA	Metals data from 311C10	100	2.9		4.8	100	2.5		53		3.4
26	336C3	5/1/1995			1		2 N			10.7		12.9		11.2				11.6
27	474C10	5/1/1999	COC, Metals SRE		1		1 N			10.0		8.9		4.5				7.8
28	474C1	6/1/1993	?		1		2 N			6.8		9.2		9.2				8.4
29	476C11	12/1/1999	CoC, high temperature metals and chlorine testing		1		1 N			2.2	100	4.9		3.1				3.4
30	476C1	2/1/1993	?		1		2 N			18.2		100.4		21.9				46.8
31	307C13	7/1/2001	Risk Burn, metal feeds equiv. to Jan '97 permit				1 NA	Data from sister kiln 307		26.7		15.7		16.9				19.8
32	307C14	7/1/2001	Risk Burn, metal feeds equiv. to June '01 permit				1 NA	Data from sister kiln 307		11.6		10.2		10.5				10.7
33	307C15	7/1/2001	Risk Burn, lower FF temp				1 NA	Data from sister kiln 307		9.3		17.3		20.4				15.7
34	307C12	5/1/2000	Risk Burn, elevated waste feed rates, maximum temp		3		2 NA	Data from sister kiln 307		32.2		29.6		30.6				30.8
35	307C11	4/1/1999	Trial Burn, elevated operating temperature, metals spi		3		3 NA	Data from sister kiln 307		933.8		1,419.4		820.2				1,057.8
36	307C1	12/1/1992	CoC, LOW COMB TEMP, LOW HALOGEN FEED		3		4 NA	Data from sister kiln 307		457.0		455.6		449.6		323.3		421.4
37	307C2	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN FEED		3		4 NA	Data from sister kiln 307		415.4		403.1		666.2		760.0		561.2
38	307C3	12/1/1992	CoC, LOW COMB TEMP, HIGH HALOGEN FEED, HI		3		4 NA	Data from sister kiln 307		431.7		461.3		483.2		498.5		468.7
39	307C4	12/1/1992	CoC, HIGH COMB TEMP, HIGH HALOGEN FEED, H		3		4 NA	Data from sister kiln 307		471.5		498.0		510.0				493.2

LWAK, Mercury

	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	Hg SRE			Hg SRE (%)					Hg 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		74.519	82.371	82.535		79.601	74.519	82.371	82.535		79.601										
7	307C14	1 NA	Normal		85.108	81.909	81.809		83.179	85.108	81.909	81.809		83.179										
8	307C15	1 NA	Normal		85.181	75.423	78.619		79.450	85.181	75.423	78.619		79.450										
9	307C12	2 NA	Normal		79.249	81.739	82.747		81.310	79.249	81.739	82.747		81.310										
10	307C11	3 CT			94.221	98.730	94.295		97.770	94.221	98.730	94.295		97.770										
11	307C1	4 IB			78.956	77.986	77.567	83.983	79.604	78.956	77.986	77.567	83.983	79.604										
12	307C2	4 CT			80.644	81.691	70.117	66.712	74.666	80.644	81.691	70.117	66.712	74.666										
13	307C3	4 IB			79.024	77.659	76.044	76.076	77.203	79.024	77.659	76.044	76.076	77.203										
14	307C4	4 IB			77.249	78.980	79.254		78.558	77.249	78.980	79.254		78.558										
15	311C10	1 NA	Hg not controlled, normal	>	66.066	45.900	> 67.722	>	59.886	0.000	0.000	0.000		0.000										
16	311C1	2 NA	Hg not controlled, normal	>	14.297	> 42.029	> 45.138	>	38.386	0.000	0.000	0.000		0.000										
17	312C10	1 NA	Hg not controlled, normal		51.895	48.412	35.377		44.332	0.000	0.000	0.000		0.000										
18	312C2																							
19	312C1	3 NA	Hg not controlled, normal	>	42.876	> 32.353	> -49.876	>	24.319	0.000	0.000	0.000		0.000										
20	313C11	1 NA	Hg not controlled, normal	>		> -108.031		>	-531.656	0.000	0.000	0.000		0.000										
21	313C1	2 NA	Hg not controlled, normal	>	97.013	> 99.667	> 96.332	>	97.783	0.000	0.000	0.000		0.000										
22	314C11	1 NA	Hg not controlled, normal	>	-89.921	> -75.975	> -97.338	>	-85.607	0.000	0.000	0.000		0.000										
23	314C3																							
24	314C1	3 NA	Hg not controlled, normal	>	73.661	71.380	86.177	>	79.951	0.000	0.000	0.000		0.000										
25	336C12	1 NA	Hg not controlled, normal, data in lieu	>	66.066	45.900	> 67.722	>	59.886	0.000	0.000	0.000		0.000										
26	336C3																							
27	474C10	1 NA	Hg not controlled, normal		89.513	90.432	94.956		91.580	0.000	0.000	0.000		0.000										
28	474C1	2 NA	Hg not controlled, normal		84.904	77.729	80.731		81.207	0.000	0.000	0.000		0.000										
29	476C11																							
30	476C1																							
31	307C13	1 NA	Data in lieu		74.519	82.371	82.535		79.601	74.519	82.371	82.535		79.601										
32	307C14	1 NA	Data in lieu		85.108	81.909	81.809		83.179	85.108	81.909	81.809		83.179										
33	307C15	1 NA	Data in lieu		85.181	75.423	78.619		79.450	85.181	75.423	78.619		79.450										
34	307C12	2 NA	Data in lieu		79.249	81.739	82.747		81.310	79.249	81.739	82.747		81.310										
35	307C11	3 NA	Data in lieu		94.221	98.730	94.295		97.770	94.221	98.730	94.295		97.770										
36	307C1	4 NA	Data in lieu		78.956	77.986	77.567	83.983	79.604	78.956	77.986	77.567	83.983	79.604										
37	307C2	4 NA	Data in lieu		80.644	81.691	70.117	66.712	74.666	80.644	81.691	70.117	66.712	74.666										
38	307C3	4 NA	Data in lieu		79.024	77.659	76.044	76.076	77.203	79.024	77.659	76.044	76.076	77.203										
39	307C4	4 NA	Data in lieu		77.249	78.980	79.254		78.558	77.249	78.980	79.254		78.558										

LWAK, Mercury

	2	108	109	110	113	114	115	116	117	118	119	120	121	138	139	14	141	14	143	144	145	14	149	155	156	157
2	Cond ID	Hg Feedrate, Cond Avg (ug/dscm)				Hg Feedrate Total (ug/dscm)										Hg Hazardous Waste and Spike (ug/dscm)				Thermal Emissions Rating						
3	Number	HW	Spike	RM	Total	R1		R2		R3		R4		Cond Avg	R1		R2		R3		CA	Camp No	Rating	Rating	Comments	
4																										
5																										
6	307C13	58.4		38.5	96.9		105		89		97			97		65		56		54		58				
7	307C14	32.5		31.4	63.9		78		56		58			64		41		27		30		33				
8	307C15	43.4		32.9	76.3		63		71		95			76		30		39		62		43				
9	307C12	2.4	136.9	25.5	164.8		155		162		177			165												
10	307C11	45,456.2	1,973.1	16.4	47,445.7		16,158		111,802		14,377			47,446											1 CT	
11	307C1	14.7	1,972.9	78.4	2,066.0		2,172		2,070		2,004		2,018	2,066											2 IB	
12	307C2	17.1	2,123.1	74.9	2,215.1		2,146		2,202		2,229		2,283	2,215											2 IB	
13	307C3	22.0	1,959.7	73.5	2,055.9		2,058		2,065		2,017		2,084	2,056											2 CT	
14	307C4	16.4	1,537.1	83.6	2,300.0		2,072		2,369		2,458			2,300											2 IB	
15	311C10	0.6		7.9	8.5		9		9		8			9		1		1		1		1		1 NA	Normal	
16	311C1	24.4		16.5	40.9	56	29	34	48	38	46		40	41		13		32		28		24		2 NA	Normal	
17	312C10	0.7		7.9	8.6		7		9		10			9		1		1		1		1		1 NA	Normal	
18	312C2																									
19	312C1	11.9		15.4	27.3	49	36	56	25	71	21		57	27		18		11		6		12		3 NA	Normal	
20	313C11	1.8		15.6	17.4	100	17	90	17	100	18		97	17		2		2		2		2		1 NA	Normal	
21	313C1				45.5	53	25	60	49	69	62		63	46		12		20		19		17		2 NA	Normal	
22	314C11	5.4		16.1	21.5	91	18	67	25	72	23		75	22		2		8		6		5		1 NA	Normal	
23	314C3				0.0		0		0		0			0		0		0		0		0				
24	314C1	70.0		51.5	121.5	35	94		88		182		9	122		61		25		124		70		3 NA	Normal	
25	336C12	0.6		7.9	8.5		9		9		8			9										1 NA	Data in lieu	
26	336C3																									
27	474C10	1.1		91.4	92.5		95		93		90			93		2		1		1		1		1 NA	Normal	
28	474C1	7.4		37.1	44.5		45		41		48			45		8		7		8		7		2 NA	Normal	
29	476C11	9.1		66.8	75.9	100	80	100	74	100	74		100	76		10		9		9		9				
30	476C1	6.6		51.1	57.8	100	55	100	55	100	64		100	58		7		7		7		7				
31	307C13	58.4		38.5	96.9		105		89		97			97												
32	307C14	32.5		31.4	63.9		78		56		58			64												
33	307C15	43.4		32.9	76.3		63		71		95			76												
34	307C12	2.4	136.9	25.5	164.8		155		162		177			165												
35	307C11	45,456.2	1,973.1	16.4	47,445.7		16,158		111,802		14,377			47,446											1 NA	Data in lieu
36	307C1	14.7	1,972.9	78.4	2,066.0		2,172		2,070		2,004		2,018	2,066											2 NA	Data in lieu
37	307C2	17.1	2,123.1	74.9	2,215.1		2,146		2,202		2,229		2,283	2,215											2 NA	Data in lieu
38	307C3	22.0	1,959.7	73.5	2,055.9		2,058		2,065		2,017		2,084	2,056											2 NA	Data in lieu
39	307C4	16.4	1,537.1	83.6	2,300.0		2,072		2,369		2,458			2,300											2 NA	Data in lieu

LWAK, Mercury

	2	158	159	160	161	162	163	164	165	174	173	174	175	174	177	178	179	180	181	184	189
2	Cond ID	Hg HW Thermal Emiss (lb/10 ¹² Btu)										Hg 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	1,460.54	2,124.33		1,100.51				1,561.79	25.272	167.326	19.291									70.629
11	307C1	456.61	451.71		497.17		344.41	437.48	2.170	2.052	2.216	2.150	2.147								
12	307C2	459.64	424.42		643.92		798.78	581.69	2.375	2.318	2.155	2.400	2.312								
13	307C3	579.43	623.34		632.22		634.47	617.36	2.762	2.790	2.639	2.652	2.711								
14	307C4	576.79	476.11		450.19			501.03	2.535	2.265	2.170		2.323								
15	311C10	0.25	0.46		0.30			0.33	0.001	0.001	0.001		0.001								0.001
16	311C1	11.43	24.10		17.68			17.74	0.013	0.042	0.032		0.029								0.029
17	312C10	0.33	0.39		0.47			0.40	0.001	0.001	0.001		0.001								0.001
18	312C2																				
19	312C1	8.23	6.72		7.77			7.57	0.014	0.010	0.005		0.010								0.010
20	313C11		4.28					4.28	0.002	0.002	0.002		0.002								0.002
21	313C1	0.32	0.05		0.61			0.33	0.011	0.015	0.017		0.014								0.014
22	314C11	3.40	14.40		14.32			10.71	0.002	0.008	0.007		0.006								0.006
23	314C3																				
24	314C1	11.56	4.78		12.29			9.54	0.044	0.017	0.089		0.050								0.050
25	336C12																				
26	336C3																				
27	474C10	0.19	0.07		0.03			0.10	0.002	0.001	0.001		0.001								0.001
28	474C1	1.03	1.58		1.33			1.32	0.007	0.007	0.007		0.007								0.007
29	476C11																				
30	476C1																				
31	307C13																				
32	307C14																				
33	307C15																				
34	307C12																				
35	307C11	1,460.54	2,124.33		1,100.51			1,561.79	25.272	167.326	19.291		70.629								
36	307C1	456.61	451.71		497.17		344.41	437.48	2.170	2.052	2.216	2.150	2.147								
37	307C2	459.64	424.42		643.92		798.78	581.69	2.375	2.318	2.155	2.400	2.312								
38	307C3	579.43	623.34		632.22		634.47	617.36	2.762	2.790	2.639	2.652	2.711								
39	307C4	576.79	476.11		450.19			501.03	2.535	2.265	2.170		2.323								