Table 1: Annual Respondent Burden and NESHAP for Portland Cement Plants (40 CFR Part 63, 5)

Burden Item		(B) Occurrences/ Respondent/ Year	(C) Hours/ Respondent/ Year (A x B)
1. APPLICATIONS (Not Applicable)			
2. SURVEY AND STUDIES (Not Applicable)			
3.ACQUISITION, INSTALLATION, AND UTILIZATION OF TECHNOLOGY AND SYSTEMS	16	1	16
4. REPORT REQUIREMENTS			
A. Familiarize with regulatory requirement	1	1	1
B. Required Activities			
Existing Sources			
Initial Performance Test	24	1	24
Reference Method 321 Test	8	1	8
Repeat Performance Test (assumes 10% repeat test)	24	1	24
Initial THC Performance Test	8	1	8
Repeat THC Performance Test	8	1	8
Initial Hg Performance Test	40	1	40
Repeat Hg Performance Test	8	1	8
Initial HCl Performance Test	16	1	16
Repeat HCl Performance Test	16	0.2	3.2
Initial PM CEMS Performance Specification 11	40	0.2	8
Repeat PM CEMS Performance Specification 11	40	0.2	8
CEMS Monitoring*	0.5	1	0.5
CEMS Quarterly Inspections*	2	4	8
CEMS Daily Calibration Drift Tests*	0.3	330	99
Daily monitoring (CEMS)*	2	4	8
All CEMS must follow appropriate performance specifications*	0.3	330	99
<u>New Sources</u>			
Initial Performance Test	0.3	330	99
Reference Method 321 Test	8	1	8
Repeat Performance Test (assumes 10% repeat test)	8	1	8
Initial THC Performance Test	24	1	24
Repeat THC Performance Test	8	1	8
Initial Hg Performance Test	8	1	8
Repeat Hg Performance Test	40	1	40
Initial HCl Performance Test	0	0	0
Repeat HCl Performance Test	16	1	16
Initial PM CEMS Performance Specification 11	16	0.2	3.2
Repeat PM CEMS Performance Specification 11	40	1	40
CEMS Monitoring*	40	0.2	8
CEMS Quarterly Inspections*	0.5	1	0.5
CEMS Daily Calibration Drift Tests*	2	4	8
Daily monitoring (CEMS)*	2	4	8
All CEMS must follow appropriate performance specifications*	0.3	330	99
C. Create Information (Included in 4B)			

D. Gather Existing Information (Included in 4E)			
E. Write Report			
Existing Sources			
Notification of construction/reconstruction	2	1	2
Notification of actual startup	2	1	2
Physical or Operational Change	2	1	2
Notification of Demonstration of CEMS	2	1	2
Report of Performance Test (included in 4B)			
Notification of Initial Performance Test	2	1	2
Report of Performance Test	2	1	2
Report of Semi-Annual Reports	2	2	4
<u>New Sources</u>			
Notification of construction/reconstruction	2	1	2
Notification of actual startup	2	1	2
Physical or Operational Change	2	1	2
Notification of Demonstration of CEMS	2	1	2
Report of Performance Test (included in 4B)			
Notification of Initial Performance Test	2	1	2
Report of Performance Test	2	1	2
Report of Semi-Annual Reports	24	2	48
Subtotal for Reporting Requirements ^c			
5. RECORDKEEPING REQUIREMENTS			
A. Familiarize with regulatory requirement (Included in 4A)			
B. Plan Activities (Included in 4B)			
C. Implement Activities (Included in 4B)			
D. Record Data (Not Applicable)			
E. Time to Transmit or Disclose Information			
Existing Sources			
Data Collection	0.1	330	33
Records of Startups, Shutdowns, malfunctions, etc	0.1	330	33
<u>New Sources</u>			
Data Collection	1.5	330	495
Records of Startups, Shutdowns, malfunctions, etc	0.1	330	33
Coal mill parameter monitoring	2	4	8
F. Time to Train Personnel	80	1	80
G. Time for Audits (Not Applicable)			
Subtotal for Recordkeeping Requirements ^c			
TOTAL ANNUAL LABOR BURDEN AND COST ^c			
Total Capital and O&M Cost ^c			
GRAND TOTAL ^c			

^a We have assumed that there are approximately 87 respondents, 10% of the 87 existing facilities (8.7 facilities) will will be required to complete performance tests and new/revised reports over the next three years.

^b This ICR uses the following labor rates: \$129.93 per hour for Executive, Administrative, and Managerial labor; \$1 rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2014 "Table 2. Civilian work" compensation." The rates have been increased by 110 percent to account for the benefit packages available to those

^c Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

d Cost – Subpart LLL) (Renewal)

\$103.97 \$129.93

(D) Respondents/ Year ^a	(E) Technical Hours/Year (C x D)	(F) Managerial Hours/Year (E x 0.05)	(G) Clerical Hours/Year (E x 0.10)	(H) Cost/ Year ^b	
5	80	4	8	\$9,251.64	
87	87	4.35	8.7	\$10,061.16	
0.7	200.0	10.44	20.00	¢04.14C.70	
8./	208.8	10.44	20.88	\$24,146.78	-
8./	69.6	3.48	6.96	\$8,048.93	-
	24	1.2	2.4	\$2,775.49	-
8./	69.6	3.48	6.96	\$8,048.93	-
	8	0.4	0.8	\$925.16	-
0./	348	17.4	34.8	\$40,244.63	-
	0	0.4	0.0	\$925.10 \$10,007.95	-
0./	139.2	0.90	13.92	\$10,097.05	-
	5.2	0.10	6.06	\$370.07	{
0./	09.0	0.4	0.90	\$0,040.95 \$025 16	{
120	0	0.4	0.0	\$925.10	{
138	69	3.45	6.9	\$7,979.54	Averag
138	1,104	55.2	110.4	\$127,672.63	(=133)
138	13,662	683.1	1366.2	\$1,579,948.82	plus 5 i
138	1,104	55.2	110.4	\$127,672.63	-
138	13,662	663.1	1366.2	\$1,5/9,948.82	-
	405	24.75	40 E	¢E7 044 E0	-
5	493	24.75	49.5	\$4,625,82	{
1	40	0.4		\$925.16	-
5	120	6	12	\$13 877 46	1
1	8	0.4	0.8	\$925.16	1
5	40	2	4	\$4 625 82	1
1	40	2	4	\$4,625.82	1
5	0	0	0	\$0.00	1
1	16	0.8	1.6	\$1.850.33	1
5	16	0.8	1.6	\$1,850.33	1
1	40	2	4	\$4,625.82	1
5	40	2	4	\$4,625.82	1
5	2.5	0.13	0.25	\$289.11	1
5	40	2	4	\$4,625.82	1
5	40	2	4	\$4,625.82	1
5	495	24.75	49.5	\$57,244.52	
]

\$51.79

ge number of exisiting kilns ove), so Year 1 of this ICR period = new kilns.

8.7	17.4	0.87	1.74	\$2.012.23	
8.7	17.4	0.87	1.74	\$2,012.23	
8.7	17.4	0.87	1.74	\$2.012.23	
8.7	17.4	0.87	1.74	\$2,012.23	
8.7	17.4	0.87	1.74	\$2,012.23	
8.7	17.4	0.87	1.74	\$2,012.23	
87	348	17.4	34.8	\$40,244.63	
5	10	0.5	1	\$1,156.46	
5	10	0.5	1	\$1,156.46	
5	10	0.5	1	\$1,156.46	
5	10	0.5	1	\$1,156.46	
5	10	0.5	1	\$1,156.46	
5	10	0.5	1	\$1,156.46	
5	240	12	24	\$27,754.92	
		37,854		\$3,806,691	
138	4,554	227.7	455.4	\$526.649.61	
138	4,554	227.7	455.4	\$526,649.61	
	,				
5	2,475	123.75	247.5	\$286,222.61	
5	165	8.25	16.5	\$19,081.51	
26	208	10.4	20.8	\$24,054.26	
87	6,960	348	696	\$804.892.68	
	,	_		,	
		24 552		(D) 405 550	
		21,753		\$2,187,550	
		59,600		\$5,990,000	
				\$19,800,000	
				\$25,800,000	

have new construction/reconstruction, and 5 new portland cement kilns per year

103.97 per hour for Technical labor, and \$51.79 per hour for Clerical labor. These ers, by occupational and industry group." The rates are from column 1, "Total employed by private industry.

	Number of kilns	Number of Plants
New	5	
Existing	138	87

er 3-year period. Last ICR (1801.11) assumed 117 existing kilns plus 16 new kilns = 133 existing plus 5 new kiln, yr2=138 existing plus 5 new, year 3 =143 existing

233 hr/response

Table 2: Average Annual EPA Burden and Cost -NESHAP for Portland Cement Plants (40 CFR part 63, subpart 1

	(A)	(B)	(C)	(D)	(E)
Activity	EPA person- hours per occurrence	No. of occurrenc es per plant per year	EPA person- hours per plant per year	Plants per year ^a	Technical person- hours per year
			(C=AxB)		(E=CxD)
Initial performance tests ^c	24	1	24	13.7	328.8
Repeat performance test ^d	24	0.2	4.8	1	4.8
Report Review					
Notification of construction	0.5	1	0.5	13.7	6.9
Notification of actual startup	0.5	1	0.5	13.7	6.9
Notification of performance test ^c	0.5	1.1	0.55	13.7	7.5
Notification of Physical or Operational Change	0.5	1	0.5	13.7	6.9
Review test results/CEMS Results	8	1	8	13.7	109.6
Review semi-annual summary report	8	2	16	87	1392
Subtotals Labor Burden and cost					1,863.29
TOTAL ANNUAL BURDEN AND COST (rounded) e					

Assumptions:

^a We have assumed that there are approximately 87 respondents, 10% of the 87 existing facilities (8.7 facilities) will and 5 new portland cement kilns per year will be required to complete performance tests and new/revised reports ov

^b This cost is based on the following hourly labor rates times a 1.6 benefits multiplication factor to account for gove Managerial (GS-13, Step 5, \$39.31 x 1.6), \$46.67 for Technical (GS-12, Step 1, \$29.17 x 1.6) and \$25.25 Clerical (Crates are from the Office of Personnel Management (OPM) "2014 General Schedule" which excludes locality rates c

^c We have assumed that it will take twenty-four hours for each new respondent to perform the initial performance te

^d We have assumed that 10 percent of respondents would repeat performance test due to failure.

^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

LL	L)
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(F)	(G)	(H)
Managem ent person- hours per year	Clerical person- hours per year	Cost, \$ ^b
(Ex0.05)	(Ex0.1)	
16.4	32.9	\$17,209.39
0.2	0.5	\$251.23
0.3	0.7	\$358.53
0.3	0.7	\$358.53
0.4	0.8	\$394.38
0.3	0.7	\$358.53
5.48	10.96	\$5,736.46
69.6	139.2	\$72,857.28
93.2	186.3	\$97,524.34
2,140		\$97,500

46.67

62.9 25.25

l have new construction/reconstruction, er the next three years.

ernment overhead expenses: \$62.90 for GS-6, Step 3, \$15.78 x 1.6). These of pay.

est.

Capital/Startup vs. Operation and Maintenance (O&M) Costs

(A)	(B)	(C)	(D)	(E)	(F)
Continuous Monitoring Device	Capital/Startup Cost for One Respondent	Number of New Respondents	Total Capital/Startup Cost, (B X C)	Annual O&M Costs for One Respondent	Number of Respondents with O&M
Continuous Emission Monitors	\$604,456	5	\$3,022,280	\$116,459	138
Initial CEMS testing	\$131,222	5	\$656,110		
Flow monitoring device for coal mills	\$35,780	0	\$0	\$2,589	26
Coal mill testing	\$50,800	0	\$0		
TOTAL			\$3,680,000		

Toal capital and O&M

(G)
Total O&M, (E X F)
\$16,071,342
\$67,314
\$16,100,000

\$19,800,000