

Total Annual Responses

(A) Information Collection Activity	(B) Number of Respondents	(C) Number of Responses	(D) Number of Existing Respondents That Keep Records But Do Not Submit Reports
Notification of compliance status	0	1	0
Notification/application of construction	0	1	0
Notification of actual startup	0	1	0
Notification of performance test and test plan	0	1	0
Report of performance test results ¹	5.6	1	0
Report of performance test results ²	2.8	1	0
Report of performance test results ³	2.8	1	0
Report of performance test results ⁴	2.8	1	0
Report of performance test results ⁵	1.8	1	0
Report of performance test results ⁶	1.8	1	0
Report of performance test results ⁷	1.8	1	0
Report of performance test results ⁸	0.8	1	0
Report of performance test results ⁹	0.8	1	0
Report of performance test results ¹⁰	0.8	1	0
Report of performance test results ¹¹	0.8	1	0
Report of performance test results ¹²	1	1	0
Report of performance test results ¹³	1	1	0
Report of performance test results ¹⁴	1	1	0
Report of performance test results ¹⁵	1	1	0
Report of performance test results ¹⁶	1	1	0
Report of semiannual compliance reports	14	2	0
Report of quarterly compliance reports ¹⁷	9	4	0
			Total ¹⁸

¹ There is an average of 5.6 respondents per year (14*0.4) submitting Method 5 (PM) performance test reports for pus

² There is an average of 2.8 respondents per year (14*0.2) submitting Method 29 (Hg) performance tests for pushing.

³ There is an average of 2.8 respondents per year (14*0.2) submitting Method 320 (AG and HCN) performance tests f

⁴ There is an average of 2.8 respondents per year (14*0.2) submitting CARB 429 (PAH) performance tests for pushin;

⁵ There is an average of 1.8 respondents per year (9*0.2) submitting Method 29 (Hg) performance tests for ByP batter

⁶ There is an average of 1.8 respondents per year (9*0.2) submitting Method 5 (PM) performance tests for ByP batter;

⁷ There is an average of 1.8 respondents per year (9*0.2) submitting Method 320 (AG and HCN) performance tests fo

⁸ There is an average of 0.8 respondents per year (4*0.2) submitting Method 29 (Hg) performance tests for HNR HRS

⁹ There is an average of 0.8 respondents per year (4*0.2) submitting Method 5 (PM) performance tests for HNR HRS

¹⁰ There is an average of 0.8 respondents per year (4*0.2) submitting Method 26/26A (AG) performance tests for HNF

¹¹ There is an average of 0.8 respondents per year (4*0.2) submitting CARB 429 (PAH) performance tests for HNR H

¹² There is an average of 1.0 respondents per year (5*0.2) submitting Method 29 (Hg) performance tests for HNR HR

¹³ There is an average of 1.0 respondents per year (5*0.2) submitting Method 5 (PM) performance tests for HNR HRS

¹⁴ There is an average of 1.0 respondents per year (5×0.2) submitting Method 26/26A (AG) performance tests for HNI

¹⁵ There is an average of 1.0 respondents per year (5×0.2) submitting CARB 429 (PAH) performance tests for HNR H

¹⁶ There is an average of 1.0 respondents per year (5×0.2) submitting Method 316 (formaldehyde) performance tests f

¹⁷ 40 CFR 63.7341(b) requires quarterly reporting for the COMS systems monitoring opacity of emissions from stack:

¹⁸ Figures may not add exactly due to rounding.

(E)
Total Annual Responses
$E=(B \times C) + D$
0
0
0
0
5.6
2.8
2.8
2.8
1.8
1.8
1.8
0.8
0.8
0.8
0.8
1
1
1
1
1
28
36
92

thing.

for pushing.

g.

y combustion stacks.

y combustion stacks.

r ByP battery combustion stacks.

iG main stacks.

G main stacks.

l HRSG main stacks.

fRSG main stacks.

SG bypass/waste heat stacks.

iG bypass/waste heat stacks.

R HRSG bypass/waste heat stacks.

IRSG bypass/waste heat stacks.

or HNR HRSG bypass/waste heat stacks.

s on the coke ovens at the eleven by-product recovery plants.

Number of Respondents

	Respondents That Submit Reports	Respondents That Do Not Submit Any Reports			
	(A)	(B)	(C)	(D)	(E)
Year	Number of New Respondents ¹	Number of Existing Respondents	Number of Existing Respondents that keep records but do not submit reports	Number of Existing Respondents That Are Also New Respondents	Number of Respondents (E=A+B+C-D)
1	0	14	0	0	14
2	0	14	0	0	14
3	0	14	0	0	14
Average	0	14	0	0	14

Table 1: Annual Respondent Burden and Cost – NESHAP for Coke Oven Pushing, Quenching, and Battery Stacks 1995.09

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (AxB)	(D) Respondents per year ^a	(E) Technical person-hours per year (Cx D)
1. Applications	N/A				
2. Survey and Studies	N/A				
3. Acquisition, Installation, and Utilization of Technology and Systems	40	1	40	0	0
4. Reporting Requirements					
A. Familiarize with rule requirement	2	1	2	14	28
B. Required activities ^{c, d}					
Method 5 performance test [PM] - Pushing ^{e, c}	40	2.0	80	5.6	448
Method 29 performance test [Hg]- Pushing ^f	40	2.0	80	2.8	224
Method 320 performance test [AG+HCN] - Pushing ^f	40	2.0	80	2.8	224
CARB 429 performance test [PAH] - Pushing ^f	40	2.0	80	2.8	224
Method 29 performance test [Hg] - ByP Battery ^g Combustion Stack	40	2.8	112	1.8	201.6
Method 5 performance test [PM] - ByP Battery ^g Combustion Stack	40	2.8	112	1.8	201.6
Method 320 performance test [AG+HCN] - ByP Battery Combustion Stack ^g	40	2.8	112	1.8	201.6
Method 29 performance test [Hg] - HNR HRSG Main Stack ^h	40	1.3	52	0.8	41.6
Method 5 performance test [PM] - HNR HRSG Main Stack ^h	40	1.3	52	0.8	41.6
Method 26/26A performance test [AG] - HNR HRSG Main Stack ^h	40	1.3	52	0.8	41.6
CARB 429 performance test [PAH] - HNR HRSG Main Stack ^h	40	1.3	52	0.8	41.6
Method 29 performance test - HNR HRSG Bypass/Waste Heat Stack ⁱ	40	10.6	424	1	424
Method 5 performance test - HNR HRSG Bypass/Waste Heat Stack ⁱ	40	10.6	424	1	424
Method 26/26A performance test - HNR HRSG Bypass/Waste Heat Stack ⁱ	40	10.6	424	1	424
CARB 429 performance test - HNR HRSG Bypass/Waste Heat Stack ⁱ	40	10.6	424	1	424
EPA Method 316 performance test - HNR HRSG Bypass/Waste Heat Stack ⁱ	40	10.6	424	1	424
Operation and maintenance plans for by-product coke oven batteries and capture systems and control devices applied to pushing emissions	40	1	40	0	0
Work practice plan for batteries with horizontal flues (one plant)	40	1	40	1	40

Method 9 daily observations for fugitive pushing emissions ^j	3.4	365	1,225	14	17,155
Weekly sampling for total dissolved solids (TSD) ^k	2.0	52	104	14	1,456.0
Monthly inspections and maintenance of affected sources, control devices, and continuous parameter monitoring systems ^e	2	12	24	14	336
C. Create information	See 4B				
D. Gather existing information	See 4B				
E. Write report					
Notification of applicability	2	1	2	0	0
Notification of constr./reconstr.	2	1	2	0	0
Notification of anticipated startup	2	1	2	0	0
Notification of actual startup	2	1	2	0	0
Notification of special compliance	2	1	2	0	0
Requirements					
Compliance extension request	2	1	2	0	0
Notification of performance test ^c	2	1.5	3	0	0
Site-specific test plan	40	1	40	0	0
Notification of compliance status	8	1	8	0	0
NESHAP waiver application	N/A				
Report of performance test ¹	See 4B				
Semiannual compliance reports ¹	40	2	80	14	1120
Quarterly COMS compliance reports for battery stacks ^m	12	4	48	9	432
Subtotal for Reporting Requirements					
5. Recordkeeping Requirements					
A. Familiarize with rule requirement	See 4A				
B. Plan activities	3	1	3	0	0
C. Implement activities	12	1	12	0	0
D. Develop record system	3	1	3	0	0
E. Time to enter information (through CEDRI using ERT)					
Report of other non-performance test submittals ⁿ	4	52.0	208	14	2,912
Report of Method 5 performance test - Pushing ⁿ	8	2.0	16	5.6	89.6
Report of Method 29, 320, and CARB 429 performance test - Pushing ⁿ	24	2.0	48	2.8	134.4
Report of Method 29, 5, and 320 performance tests - ByP Battery Combustion ⁿ	24	2.8	67.2	1.8	120.96
Report of Method 29, 5, 26/26A, and CARB 429 performance tests - HNR HRSG Main Stack ⁿ	32	1.3	41.6	0.8	33.28
Report of Method 29, 5, 26/26A, CARB 429 and 316 performance tests - HNR HRSG Bypass/Waste Heat Stack ⁿ	40	10.6	424	1	424
F. Time to train personnel	3	1	3	0	0
G. Time to adjust existing ways to comply with previously applicable requirements	3	1	3	0	0
H. Time to transmit or disclose information	See E				
I. Time for audits	N/A				
Subtotal for Recordkeeping Requirements					

TOTAL LABOR BURDEN AND COST (rounded) °					
Capital and O&M Cost (rounded) °					
GRAND TOTAL (rounded) °					

Assumptions:

^a There is an average of 14 respondents (i.e., 9 coke plants operating 27 by-product (ByP) batteries and 5 coke plants operating batteries). We have assumed that there will be no new sources subject to this regulation.

^b This ICR uses the following labor rates: \$163.17 per hour for Executive, Administrative, and Managerial labor; \$130.28 per hour for Clerical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, Septe Occupational and Industry group.” The rates are from column 1, “Total Compensation.” The rates have been increased b available to those employed by private industry.

^c We have assumed existing respondents already comply with initial rule requirements and are in full compliance with per semiannual reports. New respondents would have to comply with the initial rule requirements including notifications and devices.

^d Monitoring and recordkeeping of operations for respondents include: monthly inspection of capture and control systems; sampling for dissolved solids for quenching operations; work practices for batteries with horizontal flues (one plant); and

^e The rule requires that every 2.5 years (or 0.4 times per year over the 3 years of the ICR), each control device applied to p Method 5 for particulate matter. We have determined that there is an average of 2.0 emission points per respondent (28 p tested. There is an average of 5.6 respondents per year (14*0.4) submitting Method 5 performance test reports.

^f We are proposing Hg, AG, HCN, and PAH testing once every five years (or 0.2 times per year over the 3 years of the IC emissions must be sampled by Method 29 for Hg; Method 320 for AG and HCN; and CARB 429 for PAH. We have dete emission points per respondent (28 pushing units / 14 facilities) that need to be tested. There is an average of 2.8 respondi 29, 320, and CARB 429 performance test reports.

^g We are proposing Hg, PM, AG and AG testing once every five years (or 0.2 times per year over the 3 years of the ICR), be sampled by Method 29 for Hg, Method 5 for PM, and Method 320 for AG and HCN. We have determined that there is respondent (25 ByP battery combustion stacks / 9 ByP facilities) that need to be tested. There is an average of 1.8 respondi 29, 5, and 320 performance test reports.

^h We are proposing Hg, PM, AG, and PAH testing once every five years (or 0.2 times per year over the 3 years of the ICR (HRSG) main stack must be sampled by Method 26 for Hg, Method 5 for PM, Method 26/26A for AG, and CARB 429 fo an average of 1.3 emission points per respondent (5 HNR HRSG main stacks / 4 heat recovery facilities) that need to be te respondents per year (4*0.2) submitting Method 29, 5, 26/26A, and CARB 429 performance test reports.

ⁱ We are proposing Hg, PM, AG, PAH, and Formaldehyde testing once every five years (or 0.2 times per year over the 3 y bypass/waste heat stack must be sampled by Method 29 for Hg, Method 5 for PM, Method 26/26A for AG, CARB 429 fo We have determined that there is an average of 10.6 emission points per respondent (53 HNR HRSG bypass/waste heat s tested. There is an average of 1 respondents per year (5*0.2) submitting Method 29, 5, 26/26A, CARB 429 and 316 perfo

^j Assumes one hour of observations per day per battery.

^k The measuring of the total dissolved solids (TDS) in the make-up water used for quenching is a requirement. In past ana 2.0 quenching towers per facility.

^l The rules requires the submittal of quarterly compliance reports for all battery stacks. If no deviation occurred and no co control, only a summary report is required. For other affected sources, semiannual reports are required for any deviation f operating limit), work practice standard, or O&M requirement.

^m 40 CFR 63.7341(b) requires quarterly reporting for the COMS monitoring opacity of emissions from the stacks on by-pi present at nine plants.

ⁿ Submittal of other non-performance reports through the EPA's CEDRI in ERT format is estimated to require 4 hours; submittal of the EPA's CEDRI in ERT format is estimated to require 8 hours per test method report, includes keeping records of failures taken to minimize emissions.

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

3 (40 CFR Part 63, Subpart CCCCC) (Proposed Amendments)

(F) Management person hours per year (Ex0.05)	(G) Clerical person hours per year (Ex0.1)	(H) Total Cost Per year ^b
0	0	\$0
1.4	2.8	\$4,060.27
22.4	44.8	\$64,964.26
11.2	22.4	\$32,482.13
11.2	22.4	\$32,482.13
11.2	22.4	\$32,482.13
10.08	20.16	\$29,233.92
10.08	20.16	\$29,233.92
10.08	20.16	\$29,233.92
2.08	4.16	\$6,032.40
2.08	4.16	\$6,032.40
2.08	4.16	\$6,032.40
2.08	4.16	\$6,032.40
21.2	42.4	\$61,484.03
21.2	42.4	\$61,484.03
21.2	42.4	\$61,484.03
21.2	42.4	\$61,484.03
21.2	42.4	\$61,484.03
0	0	\$0
2	4	\$5,800.38

Notes:

Labor Rates	
Technical	\$130.28
Management	\$163.17
Clerical	\$65.71

	Facilities	Batteries
Number of Respondents:	14	47
By-product Batteries	9	27
Heat and/or nonrecovery Bat	5	20

857.8	1,715.5	\$2,487,637.97
72.8	145.6	\$211,133.83
16.8	33.6	\$48,723.19
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
56	112	\$162,410.64
21.6	43.2	\$62,644.10
28,265		\$3,564,072
0	0	\$0
0	0	\$0
0	0	\$0
146	291	\$422,267.66
4.48	8.96	\$12,992.85
6.72	13.44	\$19,489.28
6.048	12.096	\$17,540.35
1.664	3.328	\$4,825.92
21.2	42.4	\$61,484.03
0	0	\$0
0	0	\$0
4,271		\$538,600

92 responses/yr 355 hr/resp

32,500	\$4,100,000
	\$125,000
	\$4,230,000

ating 20 heat and/or nonrecovery (HNR)

per hour for Technical labor, and \$65.71
 mber 2022, “Table 2. Civilian Workers, by
 y 110% to account for the benefit packages

iodic requirements including quarterly and
 performance tests for add-on control

daily Method 9 observations; weekly
 Method 5 testing for particulate matter.

ushing emissions must be sampled by
 ushing units / 14 facilities) that need to be

R), each control device applied to pushing
 rmined that there is an average of 2.0
 ents per year (14*0.2) submitting Method

each ByP battery combustion stack must
 s an average of 2.8 emission points per
 dents per year (9*0.2) submitting Method

), each HNR heat recovery steam generator
 r PAH. We have determined that there is
 sted. There is an average of 0.8

ears of the ICR), each HNR HRSG
 r PAH, and Method 316 for Formaldehyde.
 tacks / 5 HNR facilities) that need to be
 rformance test reports.

lysis, we determined there is an average of

ntinuous monitoring systems were out of
 rom an emission limitation (including an

roduct recovery coke ovens, which are

Submission of performance test data through
as to meet the standards and the actions

Table 2: Average Annual EPA Burden and Cost – NESHAP for Coke Oven Pushing, Qu
1995.09

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per plant per year	(C) Hours per plant per year (AxB)	(D) Plants per year ^a	(E) Technical person-hours per year (Cx D)
Initial performance test	40	1	40	0	0
Repeat performance test-Retesting preparation	2	1	2	0	0
Repeat performance- Retesting	40	1	40	0	0
Report Review					
Notification of construction/reconstruction	N/A				
Notification of anticipated startup	N/A				
Notification of actual startup	N/A				
Notification of special compliance requirements	N/A				
Notification of initial performance test	2	1	2	0	0
Notification of compliance status ^d	2	1	2	0	0
Review of repeat Method 5 performance test report - Pushing (through CEDRI using ERT)	8	2.0	16	5.6	89.6
Review of repeat Method 5, 320, and CARB 429 performance test - Pushing (through CEDRI using ERT)	24	2.0	48	2.8	134.4
Review of repeat Method 29, 5, and 320 performance tests - ByP Battery Combustion Stack (through CEDRI using ERT)	24	2.8	67.2	1.8	120.96
Review of repeat Method 29, 5, 26/26A, and CARB 429 performance tests - HNR HRSG Main Stack (through CEDRI using ERT)	32	1.3	41.6	0.8	33.28
Review of repeat Method 29, 5, 26/26A, CARB 429 and 316 performance tests - HNR HRSG Bypass/Waste Heat Stack (through CEDRI using ERT)	40	10.6	424	1	424
Review of semi-annual compliance report ⁱ	8	0.4	3.2	14	44.8
Review of NESHAP waiver application	2	1	2	0	0
Review of quarterly compliance report for battery stacks ^j	1	4	4	9	36
TOTAL ANNUAL COST ^k					

Assumptions:

^a There are an average of 14 respondents (i.e., 9 coke plants operating 27 by-product (ByP) batteries and 5 coke plant nonrecovery (HNR) batteries). We have assumed that there will be no new sources subject to this regulation.

^b This cost is based on the following labor rates which incorporates a 1.6 benefits multiplication factor to account for a 60% benefit rate. Managerial rate of \$70.56 (GS-13, Step 5, \$44.10 + 60%), Technical rate of \$52.37 (GS-12, Step 1, \$32.73 + 60% Step 3, \$17.71 + 60%). These rates are from the Office of Personnel Management (OPM) “2022 General Schedule Pay.”

^c We have assumed that existing sources have complied with the initial rule requirements. New respondents are required to install add-on control equipment, and submit initial notifications.

^d Every 2.5 years (or about 0.4 times per year, if averaged over the three-year period of ICR), respondents must submit a report of results using Method 5 for particulate matter and submit a report of results. We have determined that there is an average of 28 pushing units / 14 facilities that need to be tested. There is an average of 5.6 respondents per year (14×0.4) submitting reports.

^e We are proposing Hg, AG, HCN, and PAH testing once every five years (or 0.2 times per year over the 3 years of the rule). Emissions of these pollutants applied to pushing emissions must be sampled by Method 29 for Hg; Method 320 for AG and HCN; and CARB 429 for PAH. We have determined that there is an average of 2.0 emission points per respondent (28 pushing units / 14 facilities) that need to be tested. There is an average of 2.8 respondents per year (14×0.2) submitting Method 29, 320, and CARB 429 performance test reports.

^f We are proposing Hg, PM, AG and HCN testing once every five years (or 0.2 times per year over the 3 years of the rule). Emissions of these pollutants from the stack must be sampled by Method 29 for Hg, Method 5 for PM, and Method 320 for AG and HCN. We have determined that there is an average of 25 ByP battery combustion stacks / 9 facilities that need to be tested. There is an average of 1.8 respondents per year (9×0.2) submitting Method 29, 5, and 320 performance test reports.

^g We are proposing Hg, PM, AG, and PAH testing once every five years (or 0.2 times per year over the 3 years of the rule). Emissions of these pollutants from the steam generator (HRSG) main stack must be sampled by Method 26 for Hg, Method 5 for PM, Method 26/26A for AG, and Method 316 for PAH. We have determined that there is an average of 1.3 emission points per respondent (5 HNR HRSG main stacks / 4 heat recovery steam generators) that need to be tested. There is an average of 0.8 respondents per year (4×0.2) submitting Method 29, 5, 26/26A, and CARB 429 performance test reports.

^h We are proposing Hg, PM, AG, PAH, and Formaldehyde testing once every five years (or 0.2 times per year over the 3 years of the rule). Emissions of these pollutants from the HRSG bypass/waste heat stack must be sampled by Method 29 for Hg, Method 5 for PM, Method 26/26A for AG, and Method 316 for Formaldehyde. We have determined that there is an average of 10.6 emission points per respondent (53 HNR facilities) that need to be tested. There is an average of 1.1 respondents per year (5×0.2) submitting Method 29, 5, 26/26A, and CARB 429 performance test reports.

ⁱ Sources are required to submit semiannual compliance reports.

^j 40 CFR 63.7341(b) requires the submittal of quarterly compliance reports for the COMS monitoring opacity on plants utilizing by-product recovery ovens.

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

enching, and Battery Stacks (40 CFR Part 63, Subpart CCCCC) (Proposed Amendments)

(F) Managem nt person hours per year (Ex0.05)	(G) Clerical person hours per year (Ex0.1)	(H) Total Cost Per year ^b
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
0	0	\$0
4.48	8.96	\$5,262.39
6.72	13.44	\$7,893.58
6.048	12.096	\$7,104.22
1.664	3.328	\$1,954.60
21.2	42.4	\$24,902.37
2.24	4.48	\$2,631.19
0	0	\$0
1.8	3.6	\$2,114.35
1,015		\$51,860

Notes:

Labor Rates	
Technical	\$52.37
Management	\$70.56
Clerical	\$28.34

	Facilities	Batteries
Number of Respor	14	47
By-product Batter	9	27
Heat and/or nonre	5	20

plants operating 20 heat and/or

t for government overhead expenses:
6), and Clerical rate of \$28.34 (GS-6,
le” which excludes locality rates of

required to conduct performance test

sample each pushing emission point
of 2.0 emission points per respondent
submitting Method 5 performance test

of the ICR), each control device
429 for PAH. We have determined that
There is an average of 2.8 respondents

ie ICR), each ByP battery combustion
etermined that there is an average of 2.8
n average of 1.8 respondents per year

of the ICR), each HNR heat recovery
or AG, and CARB 429 for PAH. We
at recovery facilities) that need to be
l performance test reports.

er the 3 years of the ICR), each HNR
, CARB 429 for PAH, and Method
HNR HRSG bypass/waste heat stacks /
l 29, 5, 26/26A, CARB 429 and 316

l the battery stacks at the nine coke

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
Leak detectors	\$9,000	0	\$0	\$500	14
Continuous Opacity Monitors	\$37,000	0	\$0	\$8,421	14
Total			\$0		

(G)

Total
O&M,

(E X F)

\$7,000

\$117,894

\$125,000