

Number of respondents from 1084.15 (Provided for reference purposes)

Number of Respondents				
	Respondents That Submit Reports		Respondents That Do Not Submit Any Reports	
Year	(A) Number of New Respondents	(B) Number of Existing Respondents	(C) Number of Existing Respondents that keep records but do not submit reports	(D) Number of Existing Respondents That Are Also New Respondents
1	66.4	5,161.6	0	0
2	66.4	5,228.0	0	0
3	66.4	5,294.4	0	0
Average	66.4	5,228.0	0	0

¹ New respondents include sources with constructed, reconstructed, and modified affected facilities.

Number of respondents from 1084.14 (Provided for reference purposes)

Number of Respondents				
	Respondents That Submit Reports		Respondents That Do Not Submit Any Reports	
Year	(A) Number of New Respondents	(B) Number of Existing Respondents	(C) Number of Existing Respondents that keep records but do not submit reports	(D) Number of Existing Respondents That Are Also New Respondents
1	66.4	4,962.4	0	0
2	66.4	5,028.8	0	0
3	66.4	5,095.2	0	0
Average	66.4	5,028.8	0	0

¹ New respondents include sources with constructed, reconstructed, and modified affected facilities.

Number of respondents from 1084.13 (Provided for reference purposes)

Number of Respondents				
	Respondents That Submit Reports		Respondents That Do Not Submit Any Reports	
Year	(A) Number of New Respondents	(B) Number of Existing Respondents	(C) Number of Existing Respondents that keep records but do not submit reports	(D) Number of Existing Respondents That Are Also New Respondents
1	66.4	4,763.2	0	0
2	66.4	4,829.6	0	0
3	66.4	4,896	0	0
Average	66.4	4,829.6	0	0

¹ New respondents include sources with constructed, reconstructed, and modified affected facilities.

Number of respondents from 1084.12 (Provided for reference purposes)

Number of Respondents

Year	Respondents That Submit Reports		Respondents That Do Not Submit Any Reports	
	(A) Number of New Respondents	(B) Number of Existing Respondents	(C) Number of Existing Respondents that keep records but do not submit reports	(D) Number of Existing Respondents That Are Also New Respondents
1	66.4	4,564	0	0
2	66.4	4,630.4	0	0
3	66.4	4,696.8	0	0
Average	66.4	4,630	0	0

(E) Number of Respondents
(E=A+B+C-D)
5228.0
5294.4
5360.8
5,294

ERG Notes:

Existing # respondents in yr 3 of prev ICR = 5,161.6;
 This table calculates the revised number of respondents based on the number of respondents anticipated at the end of the current 3 year period

(E) Number of Respondents
(E=A+B+C-D)
5028.8
5095.2
5161.6
5,095

ERG Notes:

Existing # respondents in yr 3 of prev ICR = 4,962.4;
 This table calculates the revised number of respondents based on the number of respondents anticipated at the end of the current 3 year period

(E) Number of Respondents
(E=A+B+C-D)
4,829.6
4,896
4,962.4
4,896

|

(E) Number of Respondents
(E=A+B+C-D)
4,630.4
4,696.8
4,763.2
4,697

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 actual startup	66.4	1	0
Notification of initial performance test	66.4	1	0
Notification of physical/operational change	66.4	1	0
Report of initial performance test (new sources)	66.4	1	0
Report of repeat initial performance test (new sources)	16.6	1	0
Report of five-year performance test (existing sources)	60.9	1	0
Records of startups, shutdowns, and malfunctions	0	0	5,294
			Total

hrs/response:

(E) Total Annual Responses $E=(B \times C)+D$
66.4
66.4
66.4
66.4
16.6
60.9
5,294
5,637.5

Table 1: Annual Respondent Burden and Cost – NSPS for Nonmetallic Mineral Processing

Labor Rates: \$122.66

Burden item	A	B	C	D	E
	Person-hours per occurrence	Annual occurrences per respondent	Person-hours per respondent per year (AxB)	Respondents per year ^a	Technical hours per year (Cx D)
1. Applications	N/A				
2. Surveys and studies	N/A				
3. Acquisition, installation, and utilization of technology and systems	N/A				
4. Reporting requirements					
A. Familiarization with regulatory requirements	1	1	1	5,294.4	5,294.4
B. Required activities					
Monitoring: wet suppression MBR monitoring: M22 readings	0.17	12	2.04	60.9	124.24
Monitoring: M22 readings	1	4	4	5.5	22
C. Create information	See 4B				
D. Gather existing information	See 4E				
E. Write reports					
Notification of actual startup	2	1	2	66.4	132.8
Notification of initial performance test	2	1	2	66.4	132.8
Report of performance test	See 5B				
Notification of physical/operational change	2	1	2	66.4	132.8
Reporting Subtotal					
5. Recordkeeping					
A. Familiarization with regulatory requirements	See 4A				
B. Plan activities					
Initial performance test (new sources) ^e	30	1	30	66.4	1,992
Repeat initial performance test (new sources) ^{e, f}	30	1	30	16.6	498
Five-year performance test (existing sources) ^{e, g}	30	1	30	60.9	1,827
C. Implement activities	See 4B				
D. Record data					
Monitoring: wet suppression	0.1	1	0.1	60.9	6.09
Monitoring: M22 readings	0.2	1	0.2	5.5	1.1

E. Time to transmit or disclose information					
Records of startups, shutdowns, and malfunctions	1.5	1	1.5	5,294	7,942
F. Time to train personnel	N/A				
G. Time for audits	N/A				
Recordkeeping Subtotal					
TOTAL LABOR BURDEN AND COSTS (rounded) ^h					
TOTAL CAPITAL AND O&M COST (rounded) ^h					
GRAND TOTAL (rounded) ^h					

N/A - Not Applicable

Assumptions:

^a EPA estimates an average of 5,294 existing sources will be subject to the standard and 66.4 new sources per year years. These estimates are based on model plant parameters used in development of the original promulgated NSI the 66.4 new respondents per year, EPA estimates 60.9 will be in the crushed/broken stone and sand/gravel industrial sectors.

^b This ICR uses the following labor rates: \$122.66 (technical), \$149.84 (managerial), and \$60.88 (clerical). These of Labor, Bureau of Labor Statistics, September 2020, “Table 2. Civilian Workers, by occupational and industry compensation.” They have been increased by 110 percent to account for the benefit packages available to those employees.

^c Monitoring for wet suppression involves checking that water is actually flowing. EPA estimates it will occur on check. Wet suppression is expected to be used in the crushed/broken stone and sand/gravel industrial sectors.

^d EPA estimates it will take each respondent one hour four times per year to complete Method 22 readings. All other crushed/broken stone and sand/gravel are expected to use baghouses and will employ baghouse Method 22 reading requirements.

^e Includes 8 hours to develop and review performance test report and 22 hours to plan for performance testing. The Method 9 performance tests is included under capital costs because a contractor is typically hired to perform these tests.

^f EPA assumes 25% of initial performance tests will be repeated due to failure (66.4 x 0.25 = 16.6).

^g Existing sources in the crushed/broken stone and sand/gravel industrial sectors, built in 2008 or later, must repeat the next three years (2022 to 2024), an average of 60.9 existing sources per year will repeat performance testing. That conducted initial performance testing in 2017, 2018, and 2019.

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

ig (40 CFR Part 60, Subpart 000) (Re

Source Type
Existing
New (crushed/broken stone and sand/gravel se
New (other sectors)

\$149.84

\$60.88

F	G	H
Management hours per year (Ex0.05)	Clerical hours per year (Ex0.10)	Annual cost (\$) ^b
264.72	529.44	\$ 721,312.50
6.21	12.42	\$ 16,926.00
1.1	2.2	\$ 2,997.29
6.64	13.28	\$ 18,092.76
6.64	13.28	\$ 18,092.76
6.64	13.28	\$ 18,092.76
6,715		\$ 795,514
99.6	199.2	\$ 271,391.37
24.9	49.8	\$ 67,847.84
91.35	182.7	\$ 248,911.67
0.3	0.61	\$ 829.09
0.06	0.11	\$ 150.61

397.1	794.2	\$ 1,081,968.75
14,105		\$ 1,671,099
20,800		\$ 2,470,000
		\$ 228,000
		\$ 2,700,000

: will become subject over the next three
PS and 2005/2006 USGS production data. Of
rial sectors and 5.5 will be in other industrial

rates are from the United States Department
group." The rates are from column 1, "Total
mployed by private industry.

a monthly basis and take 10 minutes per

her industry sectors except for
gs to comply with the periodic monitoring

re time required to conduct Method 5 and
tests.

t performance testing every five years. Over
These existing sources were the new sources

No.	
	5,294
	60.9
	5.5

Respondant Rates

(Source: United States Department of Labor, Bureau of Labor Statistics, June 2017, "Table 2. Civilian Workers, by occupational and industry group.")

Labor Type	Total Compensation (\$/hr)	Loaded Rate (Rate + 110%rate)
Mgmt.	\$71.35	\$149.84
Tech.	\$58.41	\$122.66
Cler.	\$28.99	\$60.88

Table 2: Average Annual EPA Burden and Cost – NSPS for Nonmetallic Mineral Processing (

Labor Rates: \$51.23 \$69.04

Burden item	A	B	C	D	E	F
	EPA person-hours per occurrence	Annual occurrences per respondent	EPA person-hours per respondent per year (AxB)	Respondents per year ^a	Technical hours per year (CxD)	Management hours per year (Ex0.05)
Initial performance test (new sources)	24	1	24	66.4	1,593.6	79.68
Repeat initial performance test (new sources) ^c	24	1	24	16.6	398.4	19.92
Five-year performance test (existing sources)	24	1	24	60.9	1,461.60	73.08
Report review (new sources)						
Notification of actual startup	0.5	1	1	66.4	33.2	1.66
Notification of initial performance test	0.5	1	1	66.4	33.2	1.66
Report of initial performance test ^d	8	1	8	83	664	33.20
Notification of physical/operational change	0.5	1	1	66.4	33.2	1.66
Report review (existing sources)						
Report of five-year performance test	8	1	8	60.9	487.2	24.36
TOTAL (rounded)^e						4,850

Assumptions:

^a EPA estimates an average of 5,294 existing sources will be subject to the standard and 66.4 new sources per year will be added over the next three years. These estimates are based on model plant parameters used in development of the original promulgated NSPS and USGS production data. Of the 66.4 new respondents per year, EPA estimates 60.9 will be in the crushed/broken stone and sand/gravel sectors and 5.5 will be in other industrial sectors.

^b This ICR uses the following labor rates: \$51.23 (technical), \$69.04 (managerial), and \$27.73 (clerical). These rates are based on the 2020 Personnel Management (OPM), 2020 General Schedule, which excludes locality rates of pay. The rates have been increased to account for the benefit packages available to government employees.

^c EPA assumes 25% of initial performance tests will be repeated due to failure (66.4 x 0.25 = 16.6).

^d Includes EPA review of initial and repeat performance tests conducted by new sources (66.4 + 16.6 = 83).

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

(40 CFR Part 60, Subpart OOO) (Renewal)

\$27.73

G	H
Clerical hours per year (Ex0.10)	Annual cost (\$) ^b
159.36	\$ 91,563.16
39.84	\$ 22,890.79
146.16	\$ 83,978.86
3.32	\$ 1,907.57
3.32	\$ 1,907.57
66.40	\$ 38,151.32
3.32	\$ 1,907.57
48.72	\$ 27,992.95
	\$ 270,000

Agency Rates

Source: Office of Personnel Management (OPM), 2017 General Schedule

	Hourly Mean Wage	With Fringe & Overhead
(GS- 12, step 1) - Tech.	32.02	\$51.23
(GS- 13, step 5) - Mgmt.	43.15	\$69.04
(GS-6, step 3) - Cler.	17.33	\$27.73

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 1 NSPS and 2005/2006
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Costs from 1084.13 and 14 (Provided for reference purposes)

Capital/Startup vs. Operation and Maintenance (O&M) Costs					
(A)	(B)	(C)	(D)	(E)	(F)
Requirement	Capital/Startup Cost for One Respondent	Number of New Respondents ^a	Total Capital/Startup Cost, (B X C x CRF) ^{b, f}	Annual O&M Costs for One Respondent	Number of Respondents with O&M
Method 9 performance tests (new sources) ^c	\$4,767	60.9	\$70,807	\$0	0
Method 9 performance tests (existing sources) ^{c, d}	\$4,767	60.9	\$70,807	\$0	0
Method 5 performance tests (new sources) ^e	\$63,000	5.5	\$84,511	\$0	0
File cabinets	\$235	66.4	\$1,713	N/A	N/A
Total ^f			\$228,000		

N/A - Not Applicable

^a Of the 66.4 new respondents per year, EPA estimates 60.9 will be in the crushed/broken stone and sand/gravel industrial sectors and 5.5 will be in other industrial sectors.

^b These are annualized costs for all new respondents. The capital cost associated with testing was annualized assuming an interest rate and 5-year life (i.e., capital recovery factor (CRF) of 0.2439). The annualized capital cost for file cabinets was calculated using a 7% interest rate and a 15-year life (i.e., CRF of 0.1098).

^c EPA estimates a testing cost of \$216.67 per 30-minute Method 9 test. EPA assumes each plant in the crushed/broken stone and sand/gravel industrial sectors has 22 emission points requiring Method 9 testing; therefore, the capital/startup cost per respondent is \$4,767 (rounded) ($216.67 \times 22 = 4,766.74$).

^d Existing sources in the crushed/broken stone and sand/gravel industrial sectors, built in 2008 or later, must repeat performance testing every five years. Over the next three years (2022 to 2024), an average of 60.9 existing sources per year will require performance testing. These existing sources were the new sources that conducted initial performance testing in 2017 and 2019.

^e EPA estimates a testing cost of \$7,000 per Method 5 test. EPA assumes each plant in other industrial sectors subject to the rule has 9 emission points requiring Method 5 testing; therefore, the capital/startup cost per respondent is \$63,000 ($7,000 \times 9 = 63,000$).

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

Costs from 1084.12 (Provided for reference purposes)

Capital/Startup vs. Operation and Maintenance (O&M) Costs					
(A)	(B)	(C)	(D)	(E)	(F)
Requirement	Capital/Startup Cost For One Respondent	Number of New Respondents ^b	Total Capital/Startup Cost, (B X C) ^c	Annual O&M Costs for One Respondent	Number of Respondents with O&M
Performance Tests ^a	N/A	66.4	\$152,868	0	0
File Cabinets	N/A	66.4	\$1,709	N/A	N/A
Total			\$154,577	0	0

and 9 emission points for each plant in other sectors.

5.5 will be in other sectors.

test costs are \$1.0 million and \$872,000 for Method 5 and Method 9 respectively.

Number of sources conducting repeat performance testing

ICR	Calendar Year	ICR Year	New Sources	2010 Source
1084.10	2010	Yr 1	60.9	Initial Test
1084.10	2011	Yr 2	60.9	0
1084.10	2012	Yr 3	60.9	0
1084.12	2013	Yr 1	60.9	0
1084.12	2014	Yr 2	60.9	0
1084.12	2015	Yr 3	60.9	60.9
1084.13	2016	Yr 1	60.9	
1084.13	2017	Yr 2	60.9	
1084.13	2018	Yr 3	60.9	
1084.14	2019	Yr 1	60.9	
1084.14	2020	Yr 2	60.9	
1084.14	2021	Yr 3	60.9	
1084.15	2022	Yr 1	60.9	
1084.15	2023	Yr 2	60.9	
1084.15	2024	Yr 3	60.9	

(G)
Total O&M, (E X F)
\$0
\$0
\$0
N/A
\$0

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(G)
Total O&M Costs
0
N/A
0

Total Sources	NOTES
N/A	
0	
0	
0	
0	
60.9	1084.12 ICR applied 3-yr average of 20.3 sources/yr for repeat testing
60.9	
60.9	
60.9	3-yr average for repeat testing: 60.9
60.9	
60.9	
60.9	3-yr average for repeat testing: 60.9
60.9	
60.9	
60.9	3-yr average for repeat testing: 60.9