

**Number of respondents from 1084.14 (Provided for reference purposes)**

<b>Number of Respondents</b>				
	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

<sup>1</sup> New respondents include sources with constructed, reconstructed, and modified affected facilities.

**Number of respondents from 1084.13 (Provided for reference purposes)**

<b>Number of Respondents</b>				
	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

<sup>1</sup> New respondents include sources with constructed, reconstructed, and modified affected facilities.

**Number of respondents from 1084.12 (Provided for reference purposes)**

<b>Number of Respondents</b>				
	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	4,564	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)
5028.8
5095.2
5161.6
<b>5,095</b>

**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

<b>Total Annual Responses</b>			
(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	5,095
			Total

*hrs/response:*

(E) Total Annual Responses $E=(B \times C)+D$
66.4
66.4
66.4
66.4
16.6
60.9
5,095
5,438.3

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

Labor Rates: \$112.98

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 <sup>a</sup>	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	5,095.2	5,095.2
B. Required activities					
Monitoring: wet suppression <sup>c</sup>	0.17	12	2.04	60.9	124.24
Monitoring: M22 readings <sup>d</sup>	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
<b>Reporting Subtotal</b>					
5. Recordkeeping					
A. Familiarization with regulatory requirements	See 4A				
B. Plan activities					
Initial performance test (new sources) <sup>e</sup>	30	1	30	66.4	1,992
Repeat initial performance test (new sources) <sup>e, f</sup>	30	1	30	16.6	498
Five-year performance test (existing sources) <sup>e, g</sup>	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	5,095	7,643
F. Time to train personnel	N/A				
G. Time for audits	N/A				
<b>Recordkeeping Subtotal</b>					
<b>TOTAL LABOR BURDEN AND COSTS (rounded) <sup>h</sup></b>					
<b>TOTAL CAPITAL AND O&amp;M COST (rounded) <sup>h</sup></b>					
<b>GRAND TOTAL (rounded) <sup>h</sup></b>					

N/A - Not Applicable

**Assumptions:**

<sup>a</sup> EPA estimates an average of 5,095 existing sources will be subject to the standard and 66.4 new sources per year. These estimates are based on model plant parameters used in development of the original promulgated NESHAP. Of the 66.4 new respondents per year, EPA estimates 60.9 will be in the crushed/broken stone and sand/gravel industrial sectors.

<sup>b</sup> This ICR uses the following labor rates: \$112.98 (technical), \$149.35 (managerial), and \$54.81 (clerical). The

<sup>c</sup> Monitoring for wet suppression involves checking that water is actually flowing. EPA estimates it will occur

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

<sup>e</sup> Includes 8 hours to develop and review performance test report and 22 hours to plan for performance testing. Method 9 performance tests is included under capital costs because a contractor is typically hired to perform the

<sup>f</sup> EPA assumes 25% of initial performance tests will be repeated due to failure ( $66.4 \times 0.25 = 16.6$ ).

<sup>g</sup> Existing sources in the crushed/broken stone and sand/gravel industrial sectors, built in 2008 or later, must repeat performance testing. Over the next three years (2019 to 2021), an average of 60.9 existing sources per year will repeat performance testing. Sources that conducted initial performance testing in 2014, 2015, and 2016.

<sup>h</sup> Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

ing (40 CFR Part 60, Subpart OOO) (R

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

\$149.35      \$54.81

F	G	H
<b>Managemen t hours per year (Ex0.05)</b>	<b>Clerical hours per year (Ex0.10)</b>	<b>Annual cost (\$)<sup>b</sup></b>
254.76	509.52	\$ 641,631.40
6.21	12.42	\$ 15,644.85
1.1	2.2	\$ 2,770.43
6.64	13.28	\$ 16,723.32
6.64	13.28	\$ 16,723.32
6.64	13.28	\$ 16,723.32
<b>6,486</b>		<b>\$ 710,217</b>
99.6	199.2	\$ 250,849.77
24.9	49.8	\$ 62,712.44
91.35	182.7	\$ 230,071.55
0.3	0.61	\$ 766.29

0.06	0.11	\$ 139.27
382.1	764.3	\$ 962,447.10
<b>13,762</b>		<b>\$ 1,506,986</b>
<b>20,200</b>		<b>\$ 2,220,000</b>
		<b>\$ 228,000</b>
		<b>\$ 2,450,000</b>

ear will become subject over the next three  
SPS and 2005/2006 USGS production data.  
Industrial sectors and 5.5 will be in other

se rates are from the United States  
on a monthly basis and take 10 minutes per  
other industry sectors except for  
ings to comply with the periodic monitoring

The time required to conduct Method 5 and  
se tests.

eat performance testing every five years.  
esting. These existing sources were the new



<b>No.</b>	
	5,095
	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.")

<b>Labor Type</b>	<b>Total Compensation (\$/hr)</b>	<b>Loaded Rate (Rate + 110%rate)</b>
Mgmt.	\$71.12	\$149.35
Tech.	\$53.80	\$112.98
Cler.	\$26.10	\$54.81

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

Labor Rates: \$48.08 \$64.80

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 <sup>a</sup>	Technical hours per year (Cx D)	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) <sup>c</sup>	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 <sup>d</sup>	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
<b>TOTAL (rounded)<sup>e</sup></b>						<b>4,850</b>

**Assumptions:**

<sup>a</sup> EPA estimates an average of 5,095 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 sectors and 5.5 will be in other industrial sectors.

<sup>b</sup> This ICR uses the following labor rates: \$48.08 (technical), \$64.80 (managerial), and \$26.02 (clerical). These rates are based on the Personnel Management (OPM), 2017 General Schedule, which excludes locality rates of pay. The rates have been increased to account for the benefit packages available to government employees.

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

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

<sup>e</sup> Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

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

\$26.02

<b>G</b>	<b>H</b>
<b>Clerical hours per year (Ex0.10)</b>	<b>Annual cost (\$) <sup>b</sup></b>
159.36	\$ 85,929.46
39.84	\$ 21,482.37
146.16	\$ 78,811.81
3.32	\$ 1,790.20
3.32	\$ 1,790.20
66.40	\$ 35,803.94
3.32	\$ 1,790.20
48.72	\$ 26,270.60
	<b>\$ 254,000</b>

**Agency Rates**

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

	<b>Hourly Mean Wage</b>	<b>With Fringe &amp; Overhead</b>
(GS- 12, step 1) - Tech.	30.05	\$48.08
(GS- 13, step 5) - Mgmt.	40.5	\$64.80
(GS-6, step 3) - Cler.	16.26	\$26.02

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 nd sand/gravel industrial

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 eased by 60 percent to

**Costs from 1084.13 and 14 (Provided for reference purposes)**

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

N/A - Not Applicable

<sup>a</sup> 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.

<sup>b</sup> These are annualized costs for all new respondents. The capital cost associated with testing was annualized at a 7% 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).

<sup>c</sup> 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 emissions points requiring Method 9 testing; therefore, the capital/startup cost per respondent is \$4,767 (rounded) ( $\$216.67 \times 22 = 4,766.74$ ).

<sup>d</sup> Existing sources in the crushed/broken stone and sand/gravel industrial sectors, built in 2008 or later, must perform performance testing every five years. Over the next three years (2019 to 2021), an average of 60.9 existing sources per year will repeat performance testing. These existing sources were the new sources that conducted initial performance testing in 2014, 2015, and 2016.

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

<sup>f</sup> Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

**Costs from 1084.12 (Provided for reference purposes)**

<b>Capital/Startup vs. Operation and Maintenance (O&amp;M) Costs</b>					
(A)	(B)	(C)	(D)	(E)	(F)
Requirement	Capital/Startup Cost For One Respondent	Number of New Respondents <sup>b</sup>	Total Capital/Startup Cost, (B X C) <sup>c</sup>	Annual O&M Costs for One Respondent	Number of Respondents with O&M
Performance Tests <sup>a</sup>	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

sectors and 9 emission points for each plant in other sectors.

<sup>a</sup> EPA estimates that of the 66.4 new respondents per year, 60.9 will be in the crushed/broken stone and sand/gravel sectors and 5.5 will be in other sectors.

performance testing is \$250,000 per year, and the total capital cost for timing equipment was estimated at \$250,000. Over the 3-year period, performance 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 Sources
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	

(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

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**Repeating Performance Testing**

2011 Source	2012 Source	2013 Source	2014 Source	2015 Source	2016 Source	Total Sources
N/A	N/A	N/A				N/A
Initial Test	N/A	N/A				0
0	Initial Test	N/A				0
0	0	Initial Test				0
0	0	0	Initial Test			0
0	0	0		Initial Test		60.9
60.9	0	0			Initial Test	60.9
	60.9	0				60.9
		60.9				60.9
			60.9			60.9
				60.9		60.9
					60.9	60.9

NOTES
1084.12 ICR applied 3-yr average of 20.3 sources/yr for repeat testing
3-yr average for repeat testing: 60.9
3-yr average for repeat testing: 60.9