

### ICR Summary Information

Hours per Response	29
Number of Respondents	161
Total Estimated Burden Hours	12,400
Total Estimated Costs	\$5,590,000
Annualized Capital O&M	\$4,110,000
Total Annual Responses	425

**RRR) (Renewal)**

Burden item	(A)	(B)	(C)
	Person hours per occurrence	No. of occurrences per respondent per year	Person hours per respondent per year (C=AxB)
1. Applications	N/A		
2. Surveys and studies	N/A		
3. Acquisition, installation, and utilization of technology and systems <sup>c</sup>	54	1	54
4. Reporting requirements			
a. Familiarization with Regulatory Requirements <sup>d</sup>	1	1	1
b. Required activities			
Initial performance test <sup>e, f</sup>	24	1	24
Repeat performance test <sup>e, f</sup>	24	0.2	4.8
Operating, maintenance and monitoring plan <sup>e, f</sup>	32	1	32
Startup, shutdown, malfunction (SSM) plan <sup>g</sup>	N/A		
c. Create information	See 4B		
d. Gather existing information	See 4B		
e. Write report			
Notification of applicability <sup>e, f</sup>	2	1	2
Notification of construction/reconstruction	N/A		
Notification/report of actual startup	N/A		
Notification of special compliance requirements	N/A		
Notification of performance test <sup>e</sup>	2	1	2
Notification of compliance status <sup>e</sup>	4	1	4
Waiver application <sup>g</sup>	2	1	2
Report of performance test	See 4B		
Semiannual reports <sup>h</sup>	8	2	16
Changing furnace classification <sup>i</sup>	2	1	2
<b>Subtotal for Reporting Requirements</b>			
5. Recordkeeping requirements			
a. Familiarization with Regulatory Requirements	See 4A		
b. Plan activities	See 4E		
c. Implement activities	See 4B		
Verify lime injection rate	0.1	36	3.6
Changing furnace classification <sup>i</sup>	2	1	2
d. Develop record system	N/A		
e. Time to enter/transmit information			
Records of all information required by the standards	N/A		
Major sources <sup>j</sup>	1.5	52	78
Area sources <sup>k</sup>	0.5	52	26
f. Time to train personnel <sup>l</sup>	4	1	4
g. Time to adjust existing ways to comply with previous applicable requirements	N/A		
h. Time to disclose information			
New sources <sup>m</sup>	0.25	2	0.5
All sources <sup>n</sup>	0.25	2	0.5

Sources that changed furnace classification <sup>i</sup>	1	1	1
i. Time for audits	N/A		
<b>Subtotal for Recordkeeping Requirements</b>			
<b>TOTAL LABOR BURDEN AND COST (rounded)<sup>o</sup></b>			
<b>Total Capital/O&amp;M Costs (rounded)<sup>o</sup></b>			
<b>Grand Total (Labor and Capital/O&amp;M Costs)(rounded)<sup>o</sup></b>			

**Assumptions:**

<sup>a</sup> We have assumed that the average number of respondents that will be subject to this rule will be 161, of which 53 ; period of this ICR.

<sup>b</sup> This ICR uses the following labor rates: \$157.61 per hour for Executive, Administrative, and Managerial labor; \$11 from the United States Department of Labor, Bureau of Labor Statistics, September 2021, “Table 2. Civilian Worker: The rates have been increased by 110% to account for the benefit packages available to those employed by private ir

<sup>c</sup> We have assumed that it will take each new respondent 54 hours to complete the task. This burden cost is associat meet the required specifications of this subpart. No additional new major or areas sources are anticipated over the th

<sup>d</sup> We have assumed that it will take each respondent one hour to read and understand the reporting requirements.

<sup>e</sup> It is assumed that new area sources will comply by meeting the equipment specifications rather than by conducting compliance with the applicable emission limit, equipment, work practice, or operational standard for affected source are no new respondents estimated, the initial requirements do not apply.

<sup>f</sup> Since we have assumed that there will be no new sources over the next three-year period of this ICR, there will be 1 new area sources will not be required to conduct emissions testing to show compliance with the emission limit, since installed and meet the design residence time of 0.8 seconds or greater and an operating temperature of 1600 °F or gre monitoring plan for affected sources.

<sup>g</sup> It is assumed that there will be no new sources requiring a waiver from the performance test requirements.

<sup>h</sup> It is assumed that each respondent will take 8 hours to write semiannual report of excess emissions or no excess em

<sup>i</sup> An estimated 50 facilities would change furnace classifications once per year.

<sup>j</sup> It is assumed that it will take 1.5 hours for major source respondents to enter and transmit records.

<sup>k</sup> It is assumed that it will take 0.5 hours for existing area source respondents to enter and transmit records.

<sup>l</sup> We have assumed that it will take 4 hours to train new employees.

<sup>m</sup> We have assumed that it will take 0.25 hours to each new respondent to disclose information.

<sup>n</sup> We have assumed that it will take 0.25 hours for each respondent to disclose information.

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

(D)	(E)	(F)	(G)	(H)
Respondents per year <sup>a</sup>	Technical person- hours per year (E=CxD)	Management person hours per year (Ex0.05)	Clerical person hours per year (Ex0.1)	Total Cost Per year <sup>b</sup>
0	0	0	0	\$0
161	161	8.05	16.1	\$22,229.67
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
53	212	10.6	21.2	\$29,271.37
0	0	0	0	\$0
161	2,576	128.8	257.6	\$355,674.76
50	100	5	10	\$13,807.25
		<b>3,506</b>		<b>\$420,983</b>
161	579.6	28.98	57.96	\$80,026.82
50	100	5	10	\$13,807.25
53	4,134	206.7	413.4	\$570,791.72
108	2,808	140.4	280.8	\$387,707.58
0	0	0	0	\$0
0	0	0	0	\$0
161	81	4.03	8.05	\$11,114.84

Labor R
Management
Technical
Clerical

50	50	2.5	5	\$6,903.63
	<b>8,857</b>			<b>\$1,063,448</b>
	<b>12,400</b>			<b>\$1,480,000</b>
				<b>\$4,110,000</b>
				<b>\$5,590,000</b>

29 hr/response

are major sources. There will be no additional new major or area sources over the three-year

23.94 per hour for Technical labor, and \$62.52 per hour for Clerical labor. These rates are  
s, by Occupational and Industry group.” The rates are from column 1, “Total Compensation.”  
industry.

ed with the monitoring of all control equipment ensuring that respondents of new respondents  
ree-year period of this ICR.

performance tests. Respondents that are major sources are required to demonstrate initial  
or emission unit and report results in the notification of compliance status report. Since there

no new sources conducting initial performance tests. We have determined that respondents of  
it was determined that sweat furnaces sold in the United States now have an afterburner  
ater. All new respondents are required to submit for approval an operation, maintenance and

missions.

ates:
\$157.61
\$123.94
\$62.52

Activity	(A)	(B)	(C)
	EPA person-hours per occurrence	No. of occurrences per plant per year	EPA person-hours per plant per year (C=AxB)
Initial performance tests	40	1.4	56
Report performance test including retesting <sup>c</sup>	48	1	48
Notification of applicability	0.5	1	0.5
Notification of construction/reconstruction	N/A		
Notification of actual startup	N/A		
Notification of special compliance requirements	N/A		
Notification of performance test	2	1	2
Notification of compliance status <sup>d</sup>	2	1	2
Report of performance test <sup>c</sup>	40	1	40
Repeat of performance test report <sup>c</sup>	40	1	40
Semiannual reports <sup>e</sup>	4	2	8
Review performance test reports and reports from facilities changing furnace classification <sup>f</sup>	4	1	4
<b>TOTAL ANNUAL BURDEN AND COST (rounded)<sup>g</sup></b>			

**Assumptions:**

<sup>a</sup> We have assumed that the average number of respondents that will be subject to this rule will be 161, of which year period of this ICR.

<sup>b</sup> This cost is based on the following labor rates which incorporates a 1.6 benefits multiplication factor to account 60%), Technical rate of \$52.37 (GS-12, Step 1, \$32.73 + 60%), and Clerical rate of \$26.34 (GS-6, Step 3, \$17.17 Schedule” which excludes locality rates of pay.

<sup>c</sup> We have assumed that all existing respondents are in compliance with the initial rule requirements. It is further conducting performance test.

<sup>d</sup> We have assumed that it will take 2 hours for each respondent to complete notification of compliance status.

<sup>e</sup> We have assumed that each existing respondent will take 4 hours two times per year to complete the semiannual

<sup>f</sup> Assumes Agency will review all annual reports, including 4 HF tests/yr, 5 tests/yr for uncontrolled furnaces, and

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

(D)	(E)	(F)	(G)	(H)
Plants per year <sup>a</sup>	Technical person- hours per year (E=CxD)	Management person-hours per year (Ex0.05)	Clerical person-hours per year (Ex0.1)	Cost, \$ <sup>b</sup>
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	0	\$0
161	1288	64.4	128.8	\$75,646.82
59	236	11.8	23.6	\$13,860.75
		<b>1,750</b>		<b>\$89,500</b>

53 are major sources. There will be no additional new major or area sources over the three-

t for government overhead expenses: Managerial rate of \$70.56 (GS-13, Step 5, \$44.10 + + 60%). These rates are from the Office of Personnel Management (OPM) "2022 General

assumed that new sweat furnaces will comply by meeting the equipment specification than by

l reports.

l 50 reports/yr for changing furnace classification.



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

<b>Capital/Startup vs. Operation and Maintenance (O&amp;M) Costs</b>				
<b>(A)</b>	<b>(B)</b>	<b>(C)</b>	<b>(D)</b>	<b>(E)</b>
<b>Continuous Monitoring Device</b>	<b>Capital/Startup Cost for One Respondent</b>	<b>Number of New Respondents</b>	<b>Total Capital/Startup Cost, (B X C)<sup>7</sup></b>	<b>Annual O&amp;M Costs for One Respondent</b>
Bag leak detectors <sup>1</sup>	\$291,111	0	\$0	\$66,667
Flow Meters <sup>2</sup>	\$3,000	0	\$0	\$0
Continuous opacity monitors <sup>3</sup>	\$36,000	0	\$0	\$7,500
Temporary hoods <sup>4</sup>	\$21,650	107	\$2,320,000	\$0
HF testing <sup>5</sup>	\$0	0	\$0	\$11,000
Furnace testing <sup>6</sup>	\$0	0	\$0	\$10,000
Temperature monitors <sup>6</sup>	\$1,200	0	\$0	\$0
<b>Totals (rounded)</b>			<b>\$2,320,000</b>	

<sup>1</sup> Assume that 34 percent of major sources (or 18 respondents) will use bag leak detectors on fabric filters at a cost of \$291,111. The actual cost of the bag leak detectors depends on the number of probes on the unit, and O&M costs are approximately \$66,667.

<sup>2</sup> All chlorine injection systems already have chlorine flow meters and the operation and maintenance costs are minimal.

<sup>3</sup> Sources with fabric filters will be complying with the monitoring requirements through the use of a bag leak detector and not continuous opacity monitors.

<sup>4</sup> An estimated 107 furnaces and 27 facilities would need temporary hoods installed every 5 years and testing every 5 years at a cost of \$17.3 million and a total annualized capital cost of \$2.3 million. Total annualized cost per furnace would average \$21,650.

<sup>5</sup> An estimated 8 affected facilities would incur a total annual O&M cost of \$11,000 for measurement of hydrogen fluoride.

<sup>6</sup> Switching furnace classifications would result in total annual O&M costs for testing of \$500,000/yr or, for each furnace, \$10,000.

<sup>7</sup> Temperature monitors will be installed at new sweat furnaces at a cost of \$1,200. The O&M costs for temperature monitoring are minimal.

<sup>8</sup> Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

(F)	(G)
Number of Respondents with O&M	Total O&M, (E X F) <sup>8</sup>
18	\$1,200,000
0	\$0
0	\$0
0	0
8	\$88,000
50	\$500,000
0	\$0
	<b>\$1,790,000</b>

\$4,110,000

with an average cost to industry at costs for bag leak detectors is

are negligible.

leak detector or visible emissions

ing conducted for a total capital cost of range \$21,650 per year.

hydrogen fluoride (HF) emissions.

for an estimated 50 furnaces, a cost of \$10,000 per furnace.

temperature monitors are negligible.

<b>Total Annual Responses</b>				
(A)	(B)	(C)	(D)	(E)
Information Collection Activity	Number of Respondents <sup>a</sup>	Number of Responses	Number of Existing Respondents That Keep Records But Do Not Submit Reports	Total Annual Responses E=(BxC)+D
Notification of applicability	0	1	0	0
Notification of construction/reconstruction	0	1	0	0
Notification of actual startup	0	1	0	0
Notification of special compliance requirements	0	1	0	0
Notification of performance test	0	1	0	0
Notification of compliance status	53	1	0	53
Waiver application	0	1	0	0
Semiannual reports	161	2	0	322
Changing furnace classification	50	1	0	50
			<b>Total</b>	<b>425</b>

<b>Number of Respondents</b>				
	<b>Respondents That Submit Reports</b>		<b>Respondents That Do Not Submit Any Reports</b>	
	<b>(A)</b>	<b>(B)</b>	<b>(C)</b>	<b>(D)</b>
<b>Year</b>	<b>Number of New Respondents <sup>a</sup></b>	<b>Number of Existing Respondents</b>	<b>Number of Existing Respondents that keep records but do not submit reports</b>	<b>Number of Existing Respondents That Are Also New Respondents</b>
1	0	161	0	0
2	0	161	0	0
3	0	161	0	0
Average	0	161	0	0

<sup>a</sup> New respondents include sources with constructed and reconstructed affected facilities.

<b>(E)</b>
<b>Number of Respondents (E=A+B+C-D)</b>
161
161
161
<b>161</b>