Table 1: Annual Respondent Burden and Cost – NSPS for Small Industrial-Commercial-Institutional Steam Gener

Burden item	(A) Person hours per occurrence	(B) No. of occurrences per respondent per year	(C) Person hours per respondent per year (C=AxB)	(D) Respondents per year [a]
1. Applications	N/A			
2. Survey and Studies	N/A			
3. Reporting requirements				
A. Familiarize with the regulatory requirements [c]	2	1	2	301
B. Required activities				
Performance test (2.9 - 8.7 MW) [h]	8	2	16	7
Performance test (8.7 – 29 MW) [h]	330	2	660	4
C. Create information	See 3B			
D. Gather existing information	See 3E			
E. Write report				
Notification of construction/reconstruction [d, g]	2	1.7	3.4	4
Notification of modification [e, g]	2	1.7	3.4	7
Notification of actual startup [f, g]	2	1.7	3.4	11
Notification of initial performance test [g]	2	1.7	3.4	11
Notification of demo of CEMS [g]	2	1.7	3.4	11
Semiannual reports	16	2	32	301
Results of performance test	See 3B			
Subtotal for Reporting Requirements				
4. Recordkeeping requirements				
A. Familiarize with the regulatory requirements	See 3A			
B. Plan activities	N/A			
C. Implement activities	N/A			
D. Develop record system	N/A			
E. Check computer system, calibrate continuous monitors	1.5	365	547.5	301
F. Train personnel	N/A			
G. Audits	N/A			
Subtotal for Recordkeeping Requirements				
TOTAL LABOR BURDEN AND COST (rounded) [i]				
TOTAL CAPITAL AND O&M COST (rounded) [i]				
GRAND TOTAL (rounded) [i]				

Assumptions:

[a] We have assumed that the average number of respondents that will be subject to the rule will be 301. There will be 11 additi

[b] This ICR uses the following labor rates: $144.33 per hour for Executive, Administrative, and Managerial labor; $108.28 per

[c] We have assumed that existing respondents will have to familiarize with the regulatory requirements each year.

[d] We have assumed that four new respondents will each take two hours to write notification of construction/reconstruction rep

[e] We have assumed that seven new respondents will each take two hours to write notification of modification report.

[f] We have assumed that all new respondents will each take 16 hours to write the semiannual report two times per year.

[g] We have assumed that occurrences/respondents for new facilities are based on an average of 1.7 affected facilities per respor

[h] This estimate includes performance test (opacity) for coal, wood, and oil-fired steam generating units and test of continuous

[i] Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

rating Units (40 CFR Part 60, Subpart Dc) (Renewal)

108.28 144.33 53.34

(E)	(F)	(G)	(H)
Technical person-hours per year (E=CxD)	**Management person-hours per year (F=Ex0.05)**	**Clerical person-hours per year (G=Ex0.1)**	**Cost ($)[b]**
602	30.1	60.2	$72,739.96
112	5.6	11.2	$13,533.02
2,640	132	264	$318,992.52
13.6	0.68	1.36	$1,643.29
23.8	1.19	2.38	$2,875.77
37.4	1.87	3.74	$4,519.06
37.4	1.87	3.74	$4,519.06
37.4	1.87	3.74	$4,519.06
9,632	481.6	963.2	$1,163,839.38
15,106			**$1,587,181**
164,798	8,239.9	16,480	$19,912,564.32
189,517			**$19,912,564**
205,000			**$21,500,000**
			$11,800,000
			$33,300,000

responses hr/response

677 303

ional new sources per year that will become subject to the rule over the three-year period of this ICR.

hour for Technical labor, and $53.34 per hour for Clerical labor. These rates are from the United States Department of Labor, I

ort.

ıdent, with an estimated 10 percent retest.
emissions monitor.

Bureau of Labor Statistics, September 2016, “Table 2. Civilian Workers, by Occupational and Industry group.” The rates

s are from column 1, “Total Compensation.” The rates have been increased by 110 percent to account for the benefit pac

kages available to those employed by private industry.

Table 2: Average Annual EPA Burden and Cost – NSPS for Small Industrial-Commercial-Institutional Stea

Activity	(A) EPA person-hours per occurrence	(B) No. of occurrences per plant per year	(C) EPA person-hours per plant per year (C=AxB)	(D) Plants per year [a]
Review of notification of construction/reconstruction [c]	2	1.7	3.4	4
Review of notification of modification [c]	2	1.7	3.4	7
Review of notification of actual startup [c]	2	1.7	3.4	11
Review of initial CEMS demonstration [c]	2	1.7	3.4	11
Review of demonstration of monitoring system [c]	2	1.7	3.4	11
Review of semiannual reports [d]	8	2	16	301
TOTAL ANNUAL BURDEN AND COST (rounded) [e]				

Assumptions:

[a] We have assumed that the average number of respondents that will be subject to the rule will be 301. There will be

[b] The cost is based on the following labor rate which incorporates a 1.6 benefits multiplication factor to account for g

[c] We have assumed that occurrences/respondent for new facilities are based on an average of 1.7 affected facilities pe

[d] We have assumed that it will take 8 hours two times per year to review each semiannual report.

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

ım Generating Units (40 CFR Part 60, Subpart Dc) (Renewal)

48.08 64.8 26.02

(E)	(F)	(G)	(H)
Technical person-hours per year (E=CxD)	**Management person-hours per year (F=Ex0.05)**	**Clerical person-hours per year (G=Ex0.1)**	**Cost [b]**
13.6	0.68	1.36	$733.34
23.8	1.19	2.38	$1,283.34
37.4	1.87	3.74	$2,016.68
37.4	1.87	3.74	$2,016.68
37.4	1.87	3.74	$2,016.68
4,816	240.8	481.6	$259,688.35
5,710			**$268,000**

11 additional new sources per year that will become subject to the rule over the three-year period of this ICR.

overnment overhead expenses. Managerial rates of $64.80 (GS-13, Step 5, $40.50 × 1.6), Technical rate of $48.08 (GS-12

ɛr respondent.

?, Step 1, $30.05 × 1.6), and Clerical rate of $26.02 (GS-6, Step 3, $16.26 × 1.6). These rates are from the Office of Pers

onnel Management (OPM) “2017 General Schedule” which excludes locality rates of pay.

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 (BxC)	Annual O&M Costs for One Respondent	Number of Respondents with O&M
SO_2 Monitoring					
CEMS, control device inlet and outlet	$113,592	0	$0	$25,900	26
CEMS, control device outlet only [a]	$73,028	19	###	$17,100	486
PM Monitoring					
COMS for sources burning coal, residual oil, or wood [b]	$47,033	7	$329,231	$9,100	125
TOTAL (rounded)			###		

[a] Number of respondents with O&M (486 units) represents an annual average of 301 existing facilities, multiplied by an average o

[b] Number of respondents with O&M (125 units) represents an annual average of 120.4 existing affected facilities that require COM

(G)
Total O&M,
$673,400
$8,310,600
$1,137,500
$10,100,000

f 1.7 affected units per facility, less an annual average of 26 units requiring inlet and outlet monitoring [301 x 1.7 = 511.7 - 26 = 485.7, 4S, plus an average of 4.4 new affected facilities per year that require COMS [120.4/301 × 11 = 4.4 new affected facilities per year that

rounded to 486 units]. Number of respondents with capital costs (19 units) represents an average of 11 new facilities per year, multip
require COMS; 120.4 + 4.4 = 124.8, rounded to 125 facilities that require COMS] Number of respondents with capital costs (7 units)

lied by an average of 1.7 affected units per facility [11 x 1.7 = 18.7, rounded to 19 units].

represents an average of 4.4 new affected facilities per year that require COMS, multiplied by an average of 1.7 affected units per fac

cility [4.4 x 1.7 = 7.48, rounded to 7 units].