

Table 1: Agency Activities

Performance Tests

- Initial
- Repeat

Review Reports

- Notification of Initial Startup
 - Notification of Performance Test
 - Initial Compliance Status

 - Startup, Shutdown, Malfunction Plans

 - Periodic Reports
-

Table 2: Average Annual EPA Burden and Cost for the CAR Provisions

48.08

Burden item	(A)	(B)	(C)	(D)	(E)
	Average hours per activity	Number of activities per respondent per year	Estimated Technical hours per plant per year (C=AxB)	Sources per year	Technical hours per year (E=CxD)
Report review					
1. Initial notification of Part 65 applicability, Title V modification ^b	2	1	2	0	0
2. Review equipment leak monitoring ^c	5	2	10	318	3,180
3. Review periodic reports ^d	4	1	4	80	320
TOTAL ANNUAL BURDEN AND COST (rounded) ^e					

Assumptions:

- a This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. The
- b Estimate all CAR sources must submit an initial notification. We estimate 1/3 of sources will submit initial notification
- c Estimate 318 equipment leak sources will comply with the CAR (240 from the HON, 59 from subpart VV and 19 from
- d Estimate 25 percent of the 320 SOCFI facilities, which equals 80 facilities, will opt to comply with the CAR and must
- e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

64.8 26.02

(F)	(G)	(H)
Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^a
0	0	
159	318	\$171,471.96
16	32	\$17,255.04
4,030		\$189,000

se rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of pay. T
 i in each of the three years covered by this ICR. This equates to 27 per year (80/3) during each of the three years following pr
 subpart V - see Table 4). Reports for equipment leaks will be submitted semiannually (318 x 2 = 636 per year). See Attachm
 submit periodic reports each year.

The rates have been increased by 60 percent to account for the benefit packages available to government employees.
omulgation.

ment C for assumptions and further description of activities.

Table 3: Average Annual EPA Burden and Cost for the Direct Final Standards

Burden item	(A)	(B)	(C)	(D)
	Technical person-hours per occurrence	No. of occurrences per respondent per year	Technical person-hours per respondent per year (C=AxB)	Respondents per year
Report review/filing	1	1	1	6
TOTAL ANNUAL BURDEN AND COST (rounded) ^b				

Assumptions:

a This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical lab

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

48.08 64.8 26.02

(E)	(F)	(G)	(H)
Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^a
6	0.3	0.6	\$323.53
7			\$324

or. These rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality ra

ites of pay. The rates have been increased by 60 percent to account for the benefit packages available to government emj

loyees.

Referencing subpart	Estimated number of sources complying with the CAR ^{a, b}
Storage Vessels	
Ka	458
Kb	382
Y	0
Transfer Racks	
BB	0
Equipment Leaks	
V	19
VV	59
VVa	0
Process Vents	
III	1
NNN	71
RRR	8
DDD	5
HON F & G - Storage Vessels	800
HON F & G - Transfer Racks	320
HON H & I -- Equipment Leaks	240
HON F & G - Process Vents	640

Assumptions:

- a. This table provides estimates on a per-source basis, rather than a per-facility basis. Therefore, estimates correlate to (a
- One storage vessel (subparts Ka, Kb, Y, and G);
 - One process vent (subparts DDD, III, NNN, RRR, and G);
 - The collection of subject equipment for one process unit (subparts VV, VVa, V, and H and I); or
 - One transfer rack (subparts BB and G).
- b. From the most recently approved ICR.

is described in the footnote to the appropriate Table), but do not match, facility entries in the reference subpart burden ta

ables (Tables F-1 through F-12, and G-1 through G-13). For the purposes of this ICR, a source is defined as:

Table 5: Basis for Annual Respondent Burden and Cost for the CAR

Burden Item	Process Vents		Storage Vessels	
	Per source ^b	Total ^c	Per source ^b	Total ^c
	1. Familiarize with regulatory requirements ^e	2.9	2,102.5	1.1
2. Plan activities	2.1	1,522.5	1.7	2,788
3. Training	1.3	942.5	0.5	820
4. Creation, testing, research and development	28	20,300	16	26,240
5. Gather information, monitor/ inspect	14	10,150	17	27,880
6. Process/compile and review	0	0	0	0
7. Complete forms	9	6,525	5.4	8,856
8. Record/disclose	28	20,300	2.8	4,592
9. Store/file	3	2,175	1.25	2,050
TOTAL	88	64,018	46	75,030

Assumptions:

^a The HON, the basis for the CAR burden estimate, requires connector monitoring. Sources originally complying with

^b From the most recently approved CAR ICR.

^c Total burden for each source type is the product of the per-source burden and the total number of sources estimated

- process vents - 725 725
- storage vessels - 1,640 1640
- transfer racks - 320 320
- equipment leaks with connector monitoring - 240 240
- equipment leaks without connector monitoring - 78 78
- facilities (used for inventory estimate) - 80 80

^d Total burden for each burden item is the sum of totals for each source type. This burden represents technical hours

^e This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.

Annual Burden in Technical Hours								
Transfer Racks		Equipment Leaks				Inventory		Total ^d
		With Connectors		Without Connectors ^a				
Per source _b	Total ^c	Per source _b	Total ^c	Per source _b	Total ^c	Per source _b	Total ^c	
1.1	352	2.5	600	1	78	1.8	144	5,080.5
0.85	272	0.57	136.8	0.23	17.94	4.5	360	5,097.24
0.5	160	0	0	0	0	0	0	1,922.5
16	5,120	380	91,200	155	12,090	0	0	154,950
17	5,440	263	63,120	108	8,424	54	4,320	119,334
0	0	0	0	0	0	18	1,440	1,440
5.4	1,728	57	13,680	23	1,794	5.4	432	33,015
2.8	896	4.7	1,128	1.9	148.2	9	720	27,784.2
1.25	400	2.75	660	0.9	70.2	1.58	126.4	5,481.6
45	14,368	711	170,525	290	22,622	94	7,542	354,105

th subpart V or VV will not be required to perform connector monitoring. Connector monitoring for these facilities is the

to opt to comply with the CAR. The estimated numbers of sources to comply with the CAR is from the most recently app

only and is the basis for determining total burden in Table 6.

average of the per source burden for subparts V and VV. The average for subparts V and VV is 294 hours, 40.9 percent

improved ICR and are detailed in Table 4:

less than the HON-based estimate. Per-source estimates for each burden item were estimated by multiplying the HON-b

ased estimate by 40.9 percent.

Table 6: Annual Respondent Burden and Cost for the CAR Provisions

108.28

Burden item ^a	(A)	(B)	(C)	(D)
	Average hours per activity	Estimated number of activities per year per respondent	Technical hours per year per respondent	Estimated technical hours per year
1. Familiarize with regulatory requirements ^b	2.76	23	63.51	5,080.5
2. Plan activities	4.9	13	63.72	5,097.24
3. Training	6.01	4	24.03	1,922.5
4. Creation, testing, research, and development	19.56	99	1,936.88	154,950
5. Gather information, monitor/inspect	2.2	677	1,491.68	119,334
6. Process/compile and review	18	1	18	1,440
7. Complete forms	82.54	5	412.69	33,015
8. Record/disclose	13.36	26	347.30	27,784.2
9. Store/file	1.96	35	68.52	5,481.6
TOTAL ANNUAL BURDEN AND COST (rounded) ^c				
TOTAL CAPITAL AND O&M COST (rounded) ^c				
GRAND TOTAL (rounded) ^c				

Assumptions:

^a Following is a brief explanation of each column. A more detailed description is provided in Attachment E.

(a) Average hours per activity are back-calculated by dividing (c) by (b).

(b) Number of activities per year is based on the estimate of number of activities per year for the HON, with a reduction

(c) Technical hours per year per respondent are the total technical hours for a burden item as estimated in Table 5, divid

(d) Estimated technical hours per year are the total technical hours for all facilities for each burden item, as estimated in

(e) Estimated managerial hours per year are assumed to be 5 percent of technical hours.

(f) Estimated clerical hours per year are assumed to be 10 percent of technical hours.

(g) Annual Cost is the sum of costs for technical, managerial, and clerical hours. This ICR uses the following labor rate

^b This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.

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

144.33 53.34

(E)	(F)	(G)
Estimated managerial hours per year (E=Dx0.5)	Estimated clerical hours per year (F=Dx0.1)	Annual cost per year (\$)
254.03	508.05	\$613,879.36
254.86	509.72	\$615,902.06
96.13	192.25	\$232,296.64
7,747.5	15,495	\$18,722,685.98
5,966.7	11,933.4	\$14,419,186.89
72	144	\$173,995.92
1,650.75	3,301.5	\$3,989,218.96
1,389.21	2,778.42	\$3,357,178.78
274.08	548.16	\$662,344.47
407,000		\$42,800,000
		\$22,000,000
		\$64,800,000

to reflect the consolidation of activities achieved through the CAR.

ed by 80 facilities.

Table 5.

es: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor. These rates are from the United States.

es Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian workers, by occupational and in

dustry group.” The rates are from column 1, “Total compensation.” The rates have been increased by 110 percent to acc

ount for the benefit packages available to those employed by private industry.

Table 7: Annual Respondent Burden and Cost for the Direct Final Standards

108.28

Burden item	(A)	(B)	(C)	(D)	(E)
	Technical person-hours per occurrence	No. of occurrences per respondent per year	Technical person-hours per respondent per year (C=AxB)	Respondents per year	Technical hours per year (E=CxD)
1. Applications	N/A				
2. Survey and Studies	N/A				
3. Acquisition, installation, and utilization of technology and systems	N/A				
4. Reporting requirements					
A. Familiarize with regulatory requirements ^b	0.5	1	0.5	6	3
B. Required activities	N/A				
C. Create information	N/A				
D. Gather existing information	N/A				
E. Write report ^b	0.5	1	0.5	6	3
Subtotal for Reporting Requirements					
5. Recordkeeping requirements					
A. Familiarize with regulatory requirements	See 4A				
Subtotal for Recordkeeping Requirements					
TOTAL ANNUAL BURDEN AND COST (rounded) ^c					
TOTAL CAPITAL AND O&M COST (rounded) ^c					
GRAND TOTAL (rounded) ^c					

Assumptions:

- ^a This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor. These
- ^b This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^c Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

144.33 53.34

(F)	(G)	(H)
Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^a
0.15	0.3	\$362.49
0.15	0.3	\$362.49
7		\$725
0		\$0
7		\$725
		\$0
		\$725

rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian w

orkers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have been i

ncreased by 110 percent to account for the benefit packages available to those employed by private industry.

Table 8: Summary of Respondent and Agency Burden and Cost for Referencing Subparts and

Subpart	(A)	(B)	(C)	(D)	(E)	(F)
	Number of respondents	Total annual responses ^a	Respondent reporting burden hours ^a	Respondent recordkeeping burden hours ^a	Respondent burden hours ^a	Respondent burden Costs ^a
NSPS Ka	174	194	722	45,931	46,653	\$4,901,852
NSPS Kb	802	2,465	28,888	81,254	110,142	\$11,572,662
NSPS VV	436	872	4,513	40,112	44,625	\$4,397,778
NSPS VVa	456	1004	7,671	43,298	50,968	\$5,355,256
NSPS DDD	150	324	6,169	1,627	7,796	\$819,110
NSPS III	17	36	219	184	403	\$42,339
NSPS NNN	2,407	5,238	33,881	26,164	60,046	\$6,308,983
NSPS RRR	275	598	3,856	2,989	6,845	\$719,153
NESHAP BB	54	216	7,662	4,844	12,506	\$1,314,032
NESHAP Y	4	8	60	9	69	\$7,183
NESHAP V	67	145	4,670	4,287	8,957	\$941,064
NESHAP F, G, H, and I	270	1,970	1,245,749	209,168	1,454,917	\$152,868,103
CAR ^d	80	400	368,965	38,256	407,221	\$42,786,689
CAR Revisions ^e	6	6	7	0	7	\$725
TOTAL ^f	5,198	13,477	1,710,000	498,000	2,210,000	\$232,000,000

Assumptions:

a From Tables G-1 through G-13.

b From Tables F-1 through F-12.

c From Appendix J.

d From Tables 2 and 6.

e From Tables 3 and 7.

^f Burden and cost totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

the CAR

(G)	(H)	(I)	(J)
Agency burden hours ^b	Agency burden costs ^b	O&M Costs ^c	Capital/ Startup costs ^c
115	\$5,392	\$0	\$0
1,120	\$52,531	\$591,300	\$27,000
2,006	\$94,040	\$0	\$0
2,756	\$129,208	\$0	\$4,200
800	\$37,530	\$1,050,000	\$300,000
92	\$4,292	\$22,950	\$13,500
13,023	\$610,613	\$3,249,450	\$2,389,500
1,486	\$69,667	\$137,500	\$500,000
497	\$23,294	\$0	\$0
9	\$431	\$0	\$0
335	\$15,702	\$0	\$0
5,756	\$269,880	\$74,250,000	\$137,600
4,025	\$188,727	\$22,000,000	\$0
7	\$324	\$0	\$0
32,000	\$1,500,000	\$101,000,000	\$3,370,000

hr/response

Table 9: Summary of Total Annual Responses for Referencing Subparts and the CAR

(A)	(B)	(C)	(D)	(E)
Information Collection Activity	Number of Respondents	Number of Responses	Number of Existing Respondents That Keep Records But Do Not Submit Reports	Total Annual Responses E=(BxC)+D
NSPS Ka				
Notification of construction	0	1	0	0
Notification of actual startup	0	1	0	0
Notification of gap measurement	188	1	0	188
Report of seal gap excess	6	1	0	6
			Subtotal	194
NSPS Kb				
Notification of construction	37	1	0	37
Notification of actual startup	37	1	0	37
Notification of IFR internal inspection	28	1	0	28
Notification of EFR gap measurement	7	1	0	7
IFR internal inspection report	28	1	0	28
EFR 1st seal gap measurement	7	1	0	7
EFR 2nd seal gap measurement	7	1	0	7
CVS operating plan report	2	1	0	2
Report of IFR failure	61	1	0	61
Notification of IFR delay of repair/emptying	6	1	0	6
EFR 1st seal gap measurement report	765	1	0	765
EFR 2nd seal gap measurement report	765	1	0	765
Notification of refill	715	1	0	715
			Subtotal	2,465
NSPS VV				
Notification of construction	0	1	0	0
Notification of reconstruction/modification	0	1	0	0
Notification of actual startup	0	1	0	0
Notification of initial/repeat performance test	0	1	0	0
Semiannual report	436	2	0	872
			Subtotal	872
NSPS VVa				
Initial performance test report	38	1	0	38
Repeat performance test report	8	1	0	8
Notification of construction	23	1	0	23
Notification of reconstruction/modification	15	1	0	15
Notification of actual startup	38	1	0	38
Notification of initial/repeat performance test	46	1	0	46
Semiannual report	418	2	0	836

			Subtotal	1,004
NSPS DDD				
Initial performance test report	10	1	0	10
Repeat performance test report	2	1	0	2
Notification of construction/modification	10	1	0	10
Notification of actual startup	10	1	0	10
Notification of initial/repeat performance test	12	1	0	12
Semiannual report	140	2	0	280
			Subtotal	324
NSPS III				
Initial performance test report	1	1	0	1
Repeat performance test report	0.2	1	0	0.2
Notification of construction/modification	1	1	0	1
Notification of actual startup	1	1	0	1
Notification of initial/repeat performance test	1.2	1	0	1.2
Semiannual report	16	2	0	32
			Subtotal	36.4
NSPS NNN				
Initial performance test report	177	1	0	177
Repeat performance test report	35	1	0	35
Notification of construction/modification	177	1	0	177
Notification of actual startup	177	1	0	177
Notification of initial/repeat performance test	212	1	0	212
Semiannual report	2,230	2	0	4,460
			Subtotal	5,238
NSPS RRR				
Initial performance test report	20	1	0	20
Repeat performance test report	4	1	0	4
Notification of construction/modification	20	1	0	20
Notification of actual startup	20	1	0	20
Notification of initial/repeat performance test	24	1	0	24
Semiannual report	255	2	0	510
			Subtotal	598
NESHAP BB				
Initial emission test	0	1	0	0
Monitoring performance test	0	1	0	0
Notification of construction	0	1	0	0
Notification of anticipated startup	0	1	0	0
Notification of actual startup	0	1	0	0
Notification of emission test	0	1	0	0
Report of emission test	0	1	0	0
Notification of performance test	0	1	0	0
Report of performance test	0	1	0	0
Report facilities below cut-off	0	1	0	0
Quarterly parameter excesses	54	4	0	216

			Subtotal	216
NESHAP Y				
Annual IFR internal inspections and EFR seal gap measurements	4	1	0	4
Notification of construction/reconstruction	0	1	0	0
Notification of anticipated startup	0	1	0	0
Notification of actual startup	0	1	0	0
Notification of emission test	0	1	0	0
Report of emission test	0	1	0	0
Notification of control installation and refill at 1st IFR degassing	0	1	0	0
Annual inspection report	4	1	0	4
Supplemental delay report	0	1	0	0
Quarterly emission report	0	4	0	0
			Subtotal	8
NESHAP V				
Initial performance test report	2	1	0	2
Reference method 21/22 test	2	1	0	2
Repeat performance test report	0.4	1	0	0.4
Notification of construction/reconstruction	2	1	0	2
Notification of anticipated startup	2	1	0	2
Notification of actual startup	2	1	0	2
Notification of initial/repeat performance test	2.4	1	0	2.4
Application for alternative	0.5	1	0	0.5
Initial report	2	1	0	2
Semiannual report	65	2	0	130
			Subtotal	145
NESHAP F, G, H, and I				
Complete reports (new respondents; see Table G-12)	5	49	0	245
Complete reports (existing respondents; see Table G-13)	345	5	0	1,725
			Subtotal	1,970
CAR Provisions				
Complete forms (see Table 6)	80	5	0	400
			Subtotal	400
CAR Direct Final Standards				
Write report (see Table 7)	6	1	0	6
			Subtotal	6
			Total responses (all subparts)	13,477

Table F-1: Average Annual EPA Burden and Cost for Subpart Ka^a

Burden item	(A)	(B)	(C)	(D)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a
Report review: New plant				
Vapor recovery ^c	N/A			
Report review: Existing plant				
Notification of reconstruction	2	1	2	0
Notification of modification	2	1	2	0
Notification of seal gap measurement ^d	0.5	1	0.5	188
Report of gap excesses ^{d,e}	1	1	1	6
TOTAL ANNUAL BURDEN AND COST (rounded)^f				

Assumptions:

- ^a Assume that there will be no new source subject to the requirements of this regulation. Similar new sources will be :
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. '
- ^c One-time only activity required at start of construction. Any new storage vessel being constructed would be subject
- ^d Estimate that 10 percent of respondents (17) will use a vapor recovery control system and 90 percent (157) will use :
- ^e Assume that 3 percent of respondents submitting a notification of either primary or secondary gap measurement (188
- ^f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

48.08	64.8	26.02	
(E)	(F)	(G)	(H)
Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
0	0	0	\$0
0	0	0	\$0
94	4.7	9.4	\$5,068.67
6	0.3	0.6	\$323.53
115			\$5,390

subject to NSPS Subpart Kb. There are 174 existing sources with an average of 50 tanks per facility.

These rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of to NSPS Subpart Kb.

a floating roof system. Respondents using vapor recovery control are not required to do seal gap measurements. All tanks
 3) will have excessive seal gaps (primary or secondary) requiring that a single report be filed once a year. (188x3%=5.64, r

pay. The rates have been increased by 60 percent to account for the benefit packages available to government employee
using floating roof system (157) will perform a secondary seal gap measurement. Twenty percent (31) will conduct a pr
ounded to 6)

s.

primary seal gap measurement. Total respondents submitting a notification of either primary or secondary gap measureme

nt: $157 + 31 = 188$.

Table F-2: Average Annual EPA Burden and Cost for Subpart Kb

48.08

Burden item	(A)	(B)	(C)	(D)	(E)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)
Report review: New plant					
Notification of construction	2	1	2	37	74
Notification of anticipated startup	1	1	1	37	37
Notification of actual startup	1	1	1	37	37
Notification of initial inspection	1	1	1	37	37
Report review: Existing plant					
IFR failure report ^c	1	1	1	61	61
Notification of IFR delay of repair/emptying ^d	1.2	1	1.2	6	7.2
Notification of refill ^e	1	1	1	721	721
TOTAL ANNUAL BURDEN AND COST (rounded) ^f					

Assumptions:

- ^a We estimate 765 existing respondents with an average of 8,716 regulated vessels in service will be subject over the next three years.
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. These rates are based on the 2014 Bureau of Economic Analysis (BEA) Survey of Professional and Management Occupations.
- ^c Estimate 10 percent failure rate for the 612 respondents choosing annual visual inspections, yielding 61 reports.
- ^d Estimate 10 percent of failed IFRs either are delayed in repair or are emptied, yielding 6 notifications.
- ^e Assume all 6,565 IFR tanks will be serviced routinely through a shutdown, and degassed once every ten years. One tenth of tanks are serviced every year.
- ^f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

64.8 26.02

(F)	(G)	(H)
Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
3.7	7.4	\$3,990.23
1.85	3.7	\$1,995.11
1.85	3.7	\$1,995.11
1.85	3.7	\$1,995.11
3.05	6.1	\$3,289.24
0.36	0.72	\$388.24
36.05	72.1	###
1,120		\$52,500

ee years. We also estimate 75 percent (6,537) of vessels have an internal floating roof (IFR), 20 percent (1,743) have an
ates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of pay.

f these tanks will be degassed each year, for an annual average of 657 per year. This number was added to the estimated

external floating roof (EFR), and 5 percent (436) have a closed vent system (CVS). For new sources, we estimate 37 resp
The rates have been increased by 60 percent to account for the benefit packages available to government employees.

64 visual inspection failures that would lead to internal inspections, for a total estimate of 721 notifications of refill.

pondents per year will become subject to subpart Kb, and assume a distribution similar to that of existing respondents; the

Therefore, 28 new respondents have an IFR, 7 have an ERF, and 2 have a CVS. These estimates do not include sources subj

ject to both subpart Kb and the HON, which we assume will comply with the HON instead.

Table F-3: Average Annual EPA Burden and Cost for Subpart VV

Burden item	(A)	(B)	(C)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)
Report review: New plant			
Notification of construction	8	1	8
Notification of reconstruction/ modification	2	1	2
Notification of actual startup	0.5	1	0.5
Notification of initial/repeat test	0.5	1	0.5
Review test results	2	1	2
Report review: Existing plant			
Semiannual emission report	2	2	4
TOTAL ANNUAL BURDEN AND COST (rounded) ^c			

Assumptions:

^a All new sources are subject to subpart VVa. There are an average of 436 existing sources per year that will be s

^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical la

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

48.08 64.8 26.02

(D)	(E)	(F)	(G)	(H)
Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
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
436	1,744	87.2	174.4	###
	2,010			\$94,000

subject to subpart VV over the next three years. These estimates do not include sources subject to both subpart VV and the HC bor. These rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates o

ON, which we assume comply with the HON instead.

of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employe

es.

Table F-4: Average Annual EPA Burden and Cost for Subpart VVa

Burden item	(A)	(B)	(C)	(D)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a
Report review: New plant				
Notification of construction ^c	8	1	8	23
Notification of reconstruction/ modification ^c	2	1	2	15
Notification of actual startup	0.5	1	0.5	38
Notification of initial/repeat test ^d	0.5	1	0.5	46
Review test results ^d	2	1	2	46
Report review: Existing plant				
Semiannual emission report	2.45	2	4.9	418
TOTAL ANNUAL BURDEN AND COST (rounded) ^e				

Assumptions:

- ^a Assume there will be an average of 38 new, modified, or reconstructed facilities each year and an average of 418 existing facilities each year.
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. Total cost is \$1.1 million per year.
- ^c Estimate 23 sources will be new due to construction while 15 will be due to reconstruction or modification.
- ^d Assume 20 percent of initial performance tests must be repeated due to failure.
- ^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

48.08 64.8 26.02

(E)	(F)	(G)	(H)
Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) _b
184	9.2	18.4	\$9,921.65
30	1.5	3	\$1,617.66
19	0.95	1.9	\$1,024.52
23	1.15	2.3	\$1,240.21
92	4.6	9.2	\$4,960.82
2,048.2	102.41	204.82	\$110,443.04
2,760			\$129,000

ating facilities over the next 3 years. Since Subpart VVa is more stringent than the HON and MON, no sources are assumed to use these rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of pay.

to be complying with the HON or MON instead of Subpart VVa.

ay. The rates have been increased by 60 percent to account for the benefit packages available to government employees.

Table F-5: Average Annual EPA Burden and Cost for Subpart DDD

Burden item	(A)	(B)	(C)	(D)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a
Report review: New plant				
Notification of construction/ modification	2	1	2	10
Notification of actual startup	2	1	2	10
Initial performance test	8	1	8	10
Repeat performance test ^c	8	1	8	2
Report review: Existing plant				
Semiannual report	2	2	4	140
TOTAL ANNUAL BURDEN AND COST (rounded) ^d				

Assumptions:

- ^a Assume 10 new affected sources per year and an average of 140 existing affected sources over the next three years.
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. T
- ^c Assume 20 percent of initial performance tests must be repeated due to failure.
- ^d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

48.08 64.8 26.02

(E)	(F)	(G)	(H)
Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
20	1	2	\$1,078.44
20	1	2	\$1,078.44
80	4	8	\$4,313.76
16	0.8	1.6	\$862.75
560	28	56	###
800			\$37,500

these rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of p

ay. The rates have been increased by 60 percent to account for the benefit packages available to government employees.

Table F-6: Average Annual EPA Burden and Cost for Subpart III

Burden item	(A)	(B)	(C)	(D)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a
Report review: New plant				
Notification of construction/ modification	2	1	2	1
Notification of anticipated startup	2	1	2	1
Notification of actual startup	2	1	2	1
Initial performance test	8	1	8	1
Repeat performance test ^c	8	1	8	0.2
Report review: Existing plant				
Semiannual report	2	2	4	16
TOTAL ANNUAL BURDEN AND COST (rounded) ^d				

Assumptions:

- ^a Assume 1 new affected source per year and an average of 16 existing affected sources over the next three years. This
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. 1
- ^c Assume 20 percent of initial performance tests must be repeated due to failure.
- ^d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

48.08

64.8

26.02

(E)	(F)	(G)	(H)
Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
2	0.1	0.2	\$107.84
2	0.1	0.2	\$107.84
2	0.1	0.2	\$107.84
8	0.4	0.8	\$431.38
1.6	0.08	0.16	\$86.28
64	3.2	6.4	\$3,451.01
92			\$4,290

s does not include sources subject to both subpart III and the HON, which are assumed to be complying with the HON.

These rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of 1

pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees

Table F-7: Average Annual EPA Burden and Cost for Subpart NNN

Burden item	(A)	(B)	(C)	(D)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a
Report review: New plant				
Notification of construction/ modification	2	1	2	177
Notification of actual startup	2	1	2	177
Initial performance test	8	1	8	177
Repeat performance test ^c	8	1	8	35
Report review: Existing plant				
Semiannual report	2	2	4	2,230
TOTAL ANNUAL BURDEN AND COST (rounded) ^d				

Assumptions:

- ^a Assume 177 new affected sources per year subject to subpart NNN and not the HON, and 2,23 existing affected source
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. Th
- ^c Assume 20 percent of initial performance tests must be repeated due to failure.
- ^d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

48.08 64.8 26.02

(E)	(F)	(G)	(H)
Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
354	17.7	35.4	\$19,088.39
354	17.7	35.4	\$19,088.39
1,416	70.8	141.6	\$76,353.55
280	14	28	\$15,098.16
8,920	446	892	\$480,984.24
13,000			\$611,000

s over the next three years. These estimates do not include sources subject to both Subpart NNN and the HON, w
 ese rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality ra

hich are assumed to be complying with the HON.

ates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government emj

ployees.

Table F-8: Average Annual EPA Burden and Cost for Subpart RRR

48.08

Burden item	(A)	(B)	(C)	(D)	(E)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)
Report review: New plant					
Notification of construction/ modification	2	1	2	20	40
Notification of actual startup	2	1	2	20	40
Initial performance test	8	1	8	20	160
Repeat performance test ^c	8	1	8	4	32
Report review: Existing plant					
Semiannual report	2	2	4	255	1,020
TOTAL ANNUAL BURDEN AND COST (rounded) ^d					

Assumptions:

- a Assume 20 new affected sources per year subject to subpart RRR and not the HON, and 255 existing affected sources over the period.
- b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. These rates are based on the EPA's 2008 wage survey.
- c Assume 20 percent of initial performance tests must be repeated due to failure.
- ^d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

64.8 26.02

(F)	(G)	(H)
Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
2	4	\$2,156.88
2	4	\$2,156.88
8	16	\$8,627.52
1.6	3.2	\$1,725.50
51	102	###
1,490		\$69,700

ie next three years. These estimates do not include sources subject to both Subpart RRR and the HON, which are assumed
 es are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of pay. The

to be complying with the HON.

These rates have been increased by 60 percent to account for the benefit packages available to government employees.

Table F-9: Average Annual EPA Burden and Cost for Subpart BB

Burden item	(A)	(B)	(C)	(D)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a
Report review: New plant				
Notification of construction	0.5	1	0.5	0
Notification of anticipated startup	0.5	1	0.5	0
Notification of actual startup	0.5	1	0.5	0
Initial report	8	1	8	0
Notification of emission test	0.5	1	0.5	0
Report of emission test	4	1	4	0
Notification of performance test	0.5	1	0.5	0
Report of performance test	8	1	8	0
Review test results	8	1	8	0
Report review: Existing plant				
Quarterly report	2	4	8	54
TOTAL ANNUAL BURDEN AND COST (rounded) ^c				

Assumptions:

^a We estimate an average of 54 existing facilities will be subject to the standard, and that no new sources will become

^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor.

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

48.08 64.8 26.02

(E)	(F)	(G)	(H)
Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
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	\$0
0	0	0	\$0
432	21.6	43.2	###
497			\$23,300

subject over the next three years. We estimate 3 tank truck/railcars and 131 marine vessels are subject to the standards. V These rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of

We assume 50 percent of marine vessels (66) operate at negative pressure and do not conduct annual vapor-tightness tests
pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees

. We also assume all other transfer racks subject to Subpart BB are complying with the HON.
25.

Table F-10: Average Annual EPA Burden and Cost for Subpart Y

Burden item	(A)	(B)	(C)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)
Report review: New plant			
Notification of construction	See NSPS Kb		
Notification of anticipated startup	See NSPS Kb		
Notification of actual startup	See NSPS Kb		
Notification of performance test	N/A		
Report of performance test	N/A		
Notification of control installation and refill at 1st IFR degassing ^c	1	1	1
Report review: Existing plant			
Annual IFR internal inspection and EFR seal gap measurement	2	1	2
Supplemental delay report ^d	1	1	1
Quarterly emission report ^e	N/A		
TOTAL ANNUAL BURDEN AND COST (rounded) ^f			

Assumptions:

- ^a Estimate there will be 4 existing sources not covered by the HON. The burden for all new sources is included in the NSPS.
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. The burden is based on the highest applicable rate.
- ^c We believe that all vessels have been degassed and that all controls have been installed, as they were to be installed with the HON.
- ^d Estimate two percent of existing sources will request delay of repair in the annual report.
- ^e Assume no sources will select the option to have a fixed roof vented to a control device, and thus have no quarterly reports.
- ^f Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

48.08 64.8 26.02

(D)	(E)	(F)	(G)	(H)
Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
0	0	0	0	\$0
4	8	0.4	0.8	\$431.38
0	0	0	0	\$0
	9			\$431

§PS Subpart Kb regulation for storage vessels at 40 CFR Part 60.

These rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates within 10 years of promulgation.

Costs of excess emissions.

tes of pay. The rates have been increased by 60 percent to account for the benefit packages available to government emp

loyees.

Table F-11: Average Annual EPA Burden and Cost for Subpart V

Burden item	(A)	(B)	(C)	(D)
	Person-hours per occurrence	No. of occurrences per respondent per year	Person-hours per respondent per year (C=AxB)	Respondents per year ^a
Report review: New plant				
Notification of construction	2	1	2	2
Notification of anticipated startup	2	1	2	2
Notification of actual startup	2	1	2	2
Initial performance test	8	1	8	2
Repeat performance test ^c	8	1	8	0.4
Semiannual report	2	2	4	65
TOTAL ANNUAL BURDEN AND COST (rounded) ^d				

Assumptions:

- ^a Assume 2 new sources per year and 65 existing sources subject to Subpart V, but not the HON.
- ^b This ICR uses the following labor rates: \$48.08 for technical, \$64.80 for managerial, and \$26.02 for clerical labor. T
- ^c Assume 20 percent of initial performance tests must be repeated due to failure.
- ^d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

48.08 (E)	64.8 (F)	26.02 (G)	(H)
Technical hours per year (E=CxD)	Managemen t hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
4	0.2	0.4	\$215.69
4	0.2	0.4	\$215.69
4	0.2	0.4	\$215.69
16	0.8	1.6	\$862.75
3.2	0.16	0.32	\$172.55
260	13	26	###
335			\$15,700

These rates are from the Office of Personnel Management (OPM) 2017 General Schedule, which excludes locality rates of 1

pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees

Table F-12: Average Annual EPA Burden and Cost for Sources Subject to the HON

48.08 64.8 26.02

Burden item	(A)	(B)	(C)	(D)	(E)
	Average hours per activity	Number of activities per year	Technical hours per year (C=AxB)	Management hours per year (D=Cx0.05)	Clerical hours per year (E=Cx0.1)
Report review:					
1. Initial	2	5	10	0.5	1
2. Implementation plan or permit	20	5	100	5	10
3. Compliance status	40	5	200	10	20
4. Review equipment leak monitoring	7	265	1,855	92.75	185.5
5. Notification of construction/reconstruction	2	5	10	0.5	1
6. Notification of anticipated startup	2	5	10	0.5	1
7. Notification of actual startup	2	5	10	0.5	1
8. Notification of performance test	2	5	10	0.5	1
9. Review of test results	8	5	40	2	4
10. Review periodic reports	4	690	2,760	138	276
TOTAL ANNUAL BURDEN AND COST (rounded)				5,760	

See Attachment H for assumptions and further description of activities.

(F)
Total cost per year (\$)
\$539.22
\$5,392.20
\$10,784.40
\$100,025.31
\$539.22
\$539.22
\$539.22
\$539.22
\$2,156.88
\$148,824.72
\$270,000

Table G-1: Annual Respondent Burden and Cost for Subpart Ka ^a

Burden item	(A)	(B)
	Person-hours per occurrence	No. of occurrences per respondent per year
1. Applications	N/A	
2. Survey and Studies	N/A	
3. Reporting requirements		
A. Familiarize with regulatory requirements ^c	1	1
B. Required activities		
Vapor recovery information	20	1
Measure seal gap	See 4E	
C. Create information	See 3B	
D. Gather existing information ^d	1	1
E. Write report		
Notification of construction	2	1
Notification of actual startup	2	1
Notification of gap measurement ^d	1.5	1
Report of seal gap excess ^e	2.5	1
Information on vapor recovery	See 3B	
Subtotal for Reporting Requirements		
4. Recordkeeping requirements		
A. Familiarize with regulatory requirements	See 3A	
B. Plan activities	See 3B	
C. Implement activities	See 3B	
D. Develop record system	N/A	
E. Time to enter information		
New tank seal gap measurements	5	50
Secondary seal gap measurements ^{d, e, f}	5	50
Primary seal gap measurements ^{d, e, g}	2	10
Fill/refill record ^{h, i}	0.2	10
Subtotal for Recordkeeping Requirements		
TOTAL ANNUAL BURDEN AND COST (rounded) ^j		
TOTAL CAPITAL AND O&M COST (rounded) ^j		
GRAND TOTAL (rounded) ^j		

Assumptions:

- ^a Assume that there will be no new source subject to the requirements of this regulation. Similar new sources will be :
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor :
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Estimate that 10 percent of respondents (17) will use a vapor recovery control system and 90 percent (157) will use :
- ^e Assume that 3 percent of respondents submitting a notification of either primary or secondary gap measurement (188

- ^f Estimate five hours to conduct secondary seal gap measurements annually for the average 50 tanks per respondent.
- ^g Estimate two hours to conduct primary seal measurements every five years for the average 50 tanks per respondent (35).
- ^h During any one year, a respondent would change liquid at approximately 20 percent of all facilities (35).
- ⁱ Estimate 0.2 hours per tank to record a liquid change at 20 percent of the average of 50 tanks per facility (10).
- ^j Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

(C)	(D)	108.28 (E)	144.33 (F)	53.34 (G)	(H)
Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
1	174	174	8.7	17.4	\$21,024.51
20	0	0	0	0	\$0
1	157	157	7.85	15.7	\$18,970.39
2	0	0	0	0	\$0
2	0	0	0	0	\$0
1.5	188	282	14.1	28.2	\$34,074.20
2.5	6	15	0.75	1.5	\$1,812.46
		722			\$75,882
250	0	0	0	0	\$0
250	157	39,250	1,962.5	3,925	\$4,742,597.13
20	31	620	31	62	\$74,914.91
2	35	70	3.5	7	\$8,458.14
		45,931			\$4,825,970
		46,700			\$4,900,000
					\$0
					\$4,900,000

subject to NSPS Subpart Kb. There are 174 existing sources with an average of 50 tanks per facility.

. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian

a floating roof system. Respondents using vapor recovery control are not required to do seal gap measurements. All tanks using 3) will have excessive seal gaps (primary or secondary) requiring that a single report be filed once a year.

10 tanks per respondent per year).

workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have been

ing floating roof system (157) will perform a secondary seal gap measurement. Twenty percent (31) will conduct a primary

n increased by 110 percent to account for the benefit packages available to those employed by private industry.

ary seal gap measurement. Total respondents submitting a notification of either primary or secondary gap measurement:

$$157 + 31 = 188.$$

Table G-2: Annual Respondent Burden and Cost for Subpart Kb

Burden item	(A)	(B)
	Person-hours per occurrence	No. of occurrences per respondent per year
1. Applications	N/A	
2. Survey and Studies	N/A	
3. Reporting requirements		
A. Familiarize with regulatory requirements ^c	1	1
B. Required activities		
One-time-only requirements		
Notification of construction	2	1
Notification of actual startup	2	1
Notification of physical/ operational changes ^d	N/A	
Notification of malfunction ^d	N/A	
Notification of initial inspection		
IFR internal inspection	2	1
EFR gap measurement	2	1
Initial inspection report		
IFR internal inspection report	12	1
EFR 1st seal gap measurement	12	1
EFR 2nd seal gap measurement	8	1
CVS operating plan report	8	1
Repeat requirements		
Internal IFR inspection ^e	12	1
Visual IFR inspection ^e	8	1
Report of IFR failure ^{e, f}	2	1
Notification of IFR delay of repair/emptying ^{e, f, g}	4	1
EFR 1st seal gap measurement report	12	1
EFR 2nd seal gap measurement report	8	1
Notification of refill ^h	2	1
Subtotal for Reporting Requirements		
4. Recordkeeping requirements		
A. Familiarize with regulatory requirements ^c	1	1
B. Gather and record information		
Vessel volumes, liquid vapor pressures, flares	8	1
113b(a) inspection	12	1
113b(b) gap measurement	12	1
C. Develop record system	10	1
D. Time to enter information		
CVS parameter records	2	52
E. Train personnel	N/A	
F. Audits	N/A	

Subtotal for Recordkeeping Requirements		
TOTAL ANNUAL BURDEN AND COST (rounded) ⁱ		
TOTAL CAPITAL AND O&M COST (rounded) ⁱ		
GRAND TOTAL (rounded) ⁱ		

Assumptions:

- ^a We estimate 802 existing respondents with an average of 8,753 regulated vessels in service will be subject over the life of the ICR.
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor.
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d The General Provision notifications of modification or malfunction will be covered by other notifications within the ICR.
- ^e For each of the 6,537 IFRs associated with the 765 existing respondents, 80 percent (612) will conduct an annual visual inspection.
- ^f Estimate 10 percent failure rate for the 612 respondents choosing annual visual inspections, yielding 61 reports.
- ^g Estimate 10 percent of failed IFRs either are delayed in repair or are emptied, yielding 6 notifications.
- ^h Assume all 6,537 IFR tanks will be serviced routinely through a shutdown, and degassed once every ten years. C
- ⁱ Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

108.28 144.33 53.34

(C)	(D)	(E)	(F)	(G)	(H)
Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
1	802	802	40.1	80.2	\$96,906.06
2	37	74	3.7	7.4	\$8,941.46
2	37	74	3.7	7.4	\$8,941.46
2	28	56	2.8	5.6	\$6,766.51
2	7	14	0.7	1.4	\$1,691.63
12	28	336	16.8	33.6	\$40,599.05
12	7	84	4.2	8.4	\$10,149.76
8	7	56	2.8	5.6	\$6,766.51
8	2	16	0.8	1.6	\$1,933.29
12	153	1,836	91.8	183.6	\$221,844.80
8	612	4,896	244.8	489.6	\$591,586.13
2	61	122	6.1	12.2	\$14,741.32
4	6	24	1.2	2.4	\$2,899.93
12	765	9,180	459	918	\$1,109,223.99
8	765	6,120	306	612	\$739,482.66
2	715	1,430	71.5	143	\$172,787.62
			28,888		\$3,035,262
1	802	802	40.1	80.2	\$96,906.06
8	765	6,120	306	612	\$739,482.66
12	765	9,180	459	918	\$1,109,223.99
12	765	9,180	459	918	\$1,109,223.99
10	3	30	1.5	3	\$3,624.92
104	436	45,344	2,267.2	4,534.4	\$5,478,938.19

			81,254		\$8,537,400
			110,000		\$11,600,000
					\$618,000
					\$12,200,000

the next three years. We also estimate 75 percent (6,565) of vessels have an internal floating roof (IFR), 20 percent (1,751) have an internal floating roof. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civil

the subpart.

visual inspection, while 20 percent (153) will conduct an internal inspection. These activities are required to generate the information

One tenth of these tanks will be degassed each year, for an annual average of 654 per year. This number was added to the estimate

ve an external floating roof (EFR), and 5 percent (438) have a closed vent system (CVS). For new sources, we estimate 3
ian workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have l

ormation for the IFR failure report and EFR primary and secondary seal gap reports, but do not require response.

nated 61 visual inspection failures that would lead to internal inspections, for a total estimate of 715 notifications of refill

7 sources per year will become subject to subpart Kb, and assume a distribution similar to that of existing respondents; this has been increased by 110 percent to account for the benefit packages available to those employed by private industry.

l.

Therefore, 28 new respondents have an IFR, 7 have an ERF, and 2 have a CVS. These estimates do not include sources sul

object to both subpart Kb and the HON, which we assume comply with the HON instead.

Table G-3: Annual Respondent Burden and Cost for Subpart VV

Burden item	(A)	(B)
	Person-hours per occurrence	No. of occurrences per respondent per year
1. Applications	N/A	
2. Survey and Studies	N/A	
3. Reporting requirements		
A. Familiarize with regulatory requirements ^c	1	1
B. Required activities		
Initial performance test report	48	1
Repeat performance test report ^d	48	1
C. Create information	See 3B	
D. Gather existing information	See 3E	
E. Write report		
Notification of construction	2	1
Notification of reconstruction/modification	2	1
Notification of actual startup	2	1
Notification of initial/repeat performance test	2	1
Semiannual report	4	2
Subtotal for Reporting Requirements		
4. Recordkeeping requirements		
A. Familiarize with regulatory requirements	See 3A	
B. Plan activities	See 4C	
C. Implement activities	See 3B	
D. Develop record system	N/A	
E. Time to enter information		
Records of operating parameters	80	1
F. Train personnel	N/A	
G. Audits	N/A	
Subtotal for Recordkeeping Requirements		
TOTAL ANNUAL BURDEN AND COST (rounded) ^e		
TOTAL CAPITAL AND O&M COST (rounded) ^e		
GRAND TOTAL (rounded) ^e		

Assumptions:

- ^a All new sources are subject to Subpart VVa. There is an average of 436 existing sources per year that will be sub
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical lal
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Assume 20 percent of performance tests must be repeated.
- ^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

108.28 144.33 53.34

(C)	(D)	(E)	(F)	(G)	(H)
Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
1	436	436	21.8	43.6	\$52,682.10
48	0	0	0	0	\$0
48	0	0	0	0	\$0
2	0	0	0	0	\$0
2	0	0	0	0	\$0
2	0	0	0	0	\$0
2	0	0	0	0	\$0
8	436	3,488	174.4	348.8	\$421,456.78
			4,513		\$474,139
80	436	34,880	1,744	3,488	\$3,923,638.99
			40,112		\$3,923,639
			44,600		\$4,400,000
					\$0
					\$4,400,000

ject to subpart VV over the next three years. These estimates do not include sources subject to both subpart VV and the HON bor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civil

l, which we assume comply with the HON instead.

ian workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have l

been increased by 110 percent to account for the benefit packages available to those employed by private industry.

Table G-4: Annual Respondent Burden and Cost for Subpart VVa

Burden item	(A)	(B)
	Person-hours per occurrence	No. of occurrences per respondent per year
1. Applications	N/A	
2. Survey and Studies	N/A	
3. Reporting requirements		
A. Familiarize with regulatory requirements ^c	1	1
B. Required activities		
Initial performance test report	48	1
Repeat performance test report ^d	48	1
C. Create information	See 3B	
D. Gather existing information	See 3E	
E. Write report		
Notification of construction ^e	2	1
Notification of reconstruction/modification ^e	2	1
Notification of actual startup	2	1
Notification of initial/repeat performance test ^d	2	1
Semiannual report	4.5	2
Subpart for Reporting Requirements		
4. Recordkeeping requirements		
A. Familiarize with regulatory requirements	See 3A	
B. Plan activities	See 4C	
C. Implement activities	See 3B	
D. Develop record system	N/A	
E. Time to enter information		
Records of operating parameters - average facilities ^f	89.5	1
Records of operating parameters - small facilities ^f	95.2	1
F. Train personnel	N/A	
G. Audits	N/A	
Subtotal for Recordkeeping Requirements		
TOTAL ANNUAL BURDEN AND COST (rounded) ^g		
TOTAL CAPITAL AND O&M COST (rounded) ^g		
GRAND TOTAL (rounded) ^g		

Assumptions:

- ^a Assume there will be an average of 38 new, modified, or reconstructed facilities each year and an average of 418
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Assume 20 percent of initial performance tests must be repeated due to failure.
- ^e Estimate 23 sources will be new due to construction while 15 will be due to reconstruction or modification.
- ^f Assume 10 percent are small facilities that will record instrument readings manually while the other 90 percent use
- ^g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

(C)	(D)	(E)	(F)	(G)	(H)
Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
		108.28	144.33	53.34	
1	456	456	22.8	45.6	\$55,098.71
48	38	1,824	91.2	182.4	\$220,394.83
48	8	384	19.2	38.4	\$46,398.91
2	23	46	2.3	4.6	\$5,558.20
2	15	30	1.5	3	\$3,624.92
2	38	76	3.8	7.6	\$9,183.12
2	46	92	4.6	9.2	\$11,116.41
9	418	3,762	188.1	376.2	\$454,564.34
		7,671			\$805,939
89.5	376	33,652	1,682.6	3,365.2	\$4,066,187.99
95.2	42	3,998.4	199.92	399.84	\$483,128.67
		43,298			\$4,549,317
		51,000			\$5,360,000
					\$4,200
					\$5,360,000

existing facilities over the next 3 years. Since Subpart VVa is more stringent than the HON and MON, no sources bor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "T.

se automated equipment to capture instrument readings electronically.

are assumed to be complying with the HON or MON instead of Subpart VVa.

able 2. Civilian workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The

rates have been increased by 110 percent to account for the benefit packages available to those employed by private ind

ustry.

Table G-5: Annual Respondent Burden and Cost for Subpart DDD

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. Survey and Studies	N/A		
3. Reporting requirements			
A. Familiarize with regulatory requirements ^c	1	1	1
B. Required activities			
Initial performance test report	360	1	360
Repeat performance test report ^d	360	1	360
C. Write report			
Notification of construction/modification	2	1	2
Notification of actual startup	1	1	1
Notification of initial/repeat performance test	2	1	2
Semiannual report	3	2	6
Subtotal for Reporting Requirements			
4. Recordkeeping requirements			
Records of operating parameters for control devices	1	12	12
Records of operating conditions exceeding last performance test	1	8	8
Records of startup, shutdown, malfunction, etc.	0.25	5	1.25
Subtotal for Recordkeeping Requirements			
TOTAL ANNUAL BURDEN AND COST (rounded) ^e			
TOTAL CAPITAL AND O&M COST (rounded) ^e			
GRAND TOTAL (rounded) ^e			

Assumptions:

- ^a Assume 10 new affected sources per year and an average of 140 existing affected sources over the next three years.
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor. Tl
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Assume 20 percent of initial performance tests must be repeated due to failure.
- ^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

108.28 144.33 53.34

(D)	(E)	(F)	(G)	(H)
Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
150	150	7.5	15	\$18,124.58
10	3,600	180	360	\$434,989.80
2	720	36	72	\$86,997.96
10	20	1	2	\$2,416.61
10	10	0.5	1	\$1,208.31
12	24	1.2	2.4	\$2,899.93
140	840	42	84	\$101,497.62
	6,169			\$648,135
10	120	6	12	\$14,499.66
140	1,120	56	112	\$135,330.16
140	175	8.75	17.5	\$21,145.34
	1,627			\$170,975
	7,800			\$819,000
				\$1,350,000
				\$2,170,000

These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian

workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have bee

n increased by 110 percent to account for the benefit packages available to those employed by private industry.

Table G-6: Annual Respondent Burden and Cost for Subpart III

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. Survey and Studies	N/A		
3. Reporting requirements			
A. Familiarize with regulatory requirements ^c	1	1	1
B. Required activities			
Initial performance test report	60	1	60
Repeat performance test report ^d	60	1	60
C. Write report			
Notification of construction/modification	2	1	2
Notification of actual startup	1	1	1
Notification of initial/repeat performance test	2	1	2
Semiannual report	3	2	6
Subtotal for Reporting Requirements			
4. Recordkeeping requirements			
Records of operating parameters for control devices	1	12	12
Records of operating conditions exceeding last performance test	1	8	8
Records of startup, shutdown, malfunction, etc.	0.25	5	1.25
Subtotal for Recordkeeping Requirements			
TOTAL ANNUAL BURDEN AND COST (rounded) ^e			
TOTAL CAPITAL AND O&M COST (rounded) ^e			
GRAND TOTAL (rounded) ^e			

Assumptions:

- ^a Assume 1 new affected source per year and an average of 16 existing affected sources over the next three years. This do
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor. TI
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Assume 20 percent of initial performance tests must be repeated due to failure.
- ^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

108.28 144.33 53.34

(D)	(E)	(F)	(G)	(H)
Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
17	17	0.85	1.7	\$2,054.12
1	60	3	6	\$7,249.83
0.2	12	0.6	1.2	\$1,449.97
1	2	0.1	0.2	\$241.66
1	1	0.05	0.1	\$120.83
1.2	2.4	0.12	0.24	\$289.99
16	96	4.8	9.6	\$11,599.73
		219		\$23,006
1	12	0.6	1.2	\$1,449.97
16	128	6.4	12.8	\$15,466.30
16	20	1	2	\$2,416.61
		184		\$19,333
		403		\$42,300
				\$36,500
				\$78,800

es not include sources subject to both Subpart III and the HON, which are assumed to be complying with the HON.
 these rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian

workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have bee

n increased by 110 percent to account for the benefit packages available to those employed by private industry.

Table G-7: Annual Respondent Burden and Cost for Subpart NNN

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. Survey and Studies	N/A		
3. Reporting requirements			
A. Familiarize with regulatory requirements ^c	1	1	1
B. Required activities			
Initial performance test report	60	1	60
Repeat performance test report ^d	60	1	60
C. Write report			
Notification of construction/modification	2	1	2
Notification of actual startup	1	1	1
Notification of initial/repeat performance test	2	1	2
Semiannual report	3	2	6
Subtotal for Reporting Requirements			
4. Recordkeeping requirements			
Records of operating parameters for control devices	1	12	12
Records of operating conditions exceeding last performance test	1	8	8
Records of startup, shutdown, malfunction, etc.	0.25	5	1.25
Subtotal for Recordkeeping Requirements			
TOTAL ANNUAL BURDEN AND COST (rounded) ^e			
TOTAL CAPITAL AND O&M COST (rounded) ^e			
GRAND TOTAL (rounded) ^e			

Assumptions:

- ^a Assume 177 new affected sources per year subject to subpart NNN and not the HON, and 2,230 existing affected source
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor. TI
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Assume 20 percent of initial performance tests must be repeated due to failure.
- ^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

108.28 144.33 53.34

(D)	(E)	(F)	(G)	(H)
Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
2,407	2,407	120.35	240.7	\$290,839.01
177	10,620	531	1,062	\$1,283,219.91
35	2,100	105	210	\$253,744.05
177	354	17.7	35.4	\$42,774.00
177	177	8.85	17.7	\$21,387.00
212	424	21.2	42.4	\$51,232.13
2,230	13,380	669	1,338	\$1,616,712.09
	33,881			\$3,559,908
177	2,124	106.2	212.4	\$256,643.98
2,230	17,840	892	1,784	\$2,155,616.12
2,230	2,787.5	139.38	278.75	\$336,815.02
	26,164			\$2,749,075
	60,000			\$6,310,000
				\$5,640,000
				\$12,000,000

s over the next three years. These estimates do not include sources subject to both Subpart NNN and the HON, which are these rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian

assumed to be complying with the HON.

workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have bee

n increased by 110 percent to account for the benefit packages available to those employed by private industry.

Table G-8: Annual Respondent Burden and Cost for Subpart RRR

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. Survey and Studies	N/A		
3. Reporting requirements			
A. Familiarize with regulatory requirements ^c	1	1	1
B. Required activities			
Initial performance test report	60	1	60
Repeat performance test report ^d	60	1	60
C. Write report			
Notification of construction/modification	2	1	2
Notification of actual startup	1	1	1
Notification of initial/repeat performance test	2	1	2
Semiannual report	3	2	6
Subtotal for Reporting Requirements			
4. Recordkeeping requirements			
Records of operating parameters for control devices	1	12	12
Records of operating conditions exceeding last performance test	1	8	8
Records of startup, shutdown, malfunction, etc.	0.25	5	1.25
Subtotal for Recordkeeping Requirements			
TOTAL ANNUAL BURDEN AND COST (rounded) ^e			
TOTAL CAPITAL AND O&M COST (rounded) ^e			
GRAND TOTAL (rounded) ^e			

Assumptions:

- ^a Assume 20 new affected sources per year subject to subpart RRR and not the HON, and 255 existing affected sources over the life of the rule.
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor. Total burden is calculated based on these rates.
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d Assume 20 percent of initial performance tests must be repeated due to failure.
- ^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

108.28 144.33 53.34

(D)	(E)	(F)	(G)	(H)
Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
275	275	13.75	27.5	\$33,228.39
20	1,200	60	120	\$144,996.60
4	240	12	24	\$28,999.32
20	40	2	4	\$4,833.22
20	20	1	2	\$2,416.61
24	48	2.4	4.8	\$5,799.86
255	1,530	76.5	153	\$184,870.67
	3,856			\$405,145
20	240	12	24	\$28,999.32
255	2,040	102	204	\$246,494.22
255	318.75	15.94	31.88	\$38,514.72
	2,989			\$314,008
	6,840			\$719,000
				\$638,000
				\$1,360,000

over the next three years. These estimates do not include sources subject to both Subpart RRR and the HON, which are assumed to be subject to the HON. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian

umed to be complying with the HON.

workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have bee

n increased by 110 percent to account for the benefit packages available to those employed by private industry.

Table G-9: Annual Respondent Burden and Cost for Subpart BB

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. Survey and Studies	N/A		
3. Reporting requirements			
A. Familiarize with regulatory requirements ^c	1	1	1
B. Required activities			
Initial emission test	20	1	20
Monitoring performance test	280	1	280
Vapor-tightness test tank truck and railcars	11	1	11
Marine vessels	80	1	80
Closed vent leak inspection	8	1	8
C. Create information	See 3B		
D. Gather existing information	See 3E		
E. Write report			
Notification of construction	2	1	2
Notification of anticipated startup	2	1	2
Notification of actual startup	2	1	2
Notification of emission test	2	1	2
Report of emission test	8	1	8
Notification of performance test	2	1	2
Report of performance test	8	1	8
Report facilities below cut-off ^d	8	1	8
Quarterly parameter excesses	4	4	16
Subtotal for Reporting Requirements			
4. Recordkeeping requirements			
A. Familiarize with regulatory requirements	See 3A		
B. Plan activities	See 4C		
C. Implement activities	See 3B		
D. Develop record system	N/A		
E. Time to enter information			
Facilities above cut-off	1.5	52	78
Facilities below cut-off ^d	0.5	52	26
F. Train personnel	N/A		
Subtotal for Recordkeeping Requirements			
TOTAL ANNUAL BURDEN AND COST (rounded) ^e			
TOTAL CAPITAL AND O&M COST (rounded) ^e			
GRAND TOTAL (rounded) ^e			

Assumptions:

- ^a We estimate an average of 54 existing facilities will be subject to the standard, and that no new sources will become sub
- ^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical labor. Th
- ^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.
- ^d For sources below the low quantity applicability for control requirements, a report is only required the first year of opera
- ^e Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

108.28

144.33

53.34

(D)	(E)	(F)	(G)	(H)
Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
54	54	2.7	5.4	\$6,525
0	0	0	0	\$0
0	0	0	0	\$0
3	33	1.65	3.3	\$3,987.41
66	5,280	264	528	\$637,985.04
54	432	21.6	43.2	\$52,198.78
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
0	0	0	0	\$0
0	0	0	0	\$0
54	864	43.2	86.4	\$104,397.55
	7,662			\$805,094
54	4,212	210.6	421.2	\$508,938.07
0	0	0	0	\$0
	4,844			\$508,938
	12,500			\$1,310,000
				\$0
				\$1,310,000

ject over the next three years. We estimate 3 tank truck/railcars and 131 marine vessels are subject to the standards. We estimate these rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016, "Table 2. Civilian Population. We assume existing sources previously have submitted this report.

assume 50 percent of marine vessels (66) operate at negative pressure and do not conduct annual vapor-tightness tests. W
workers, by occupational and industry group.” The rates are from column 1, “Total compensation.” The rates have bee

We also assume all other transfer racks subject to subpart BB are complying with the HON.

n increased by 110 percent to account for the benefit packages available to those employed by private industry.

Table G-10: Annual Respondent Burden and Cost for Subpart Y

Burden item	(A)	(B)
	Person-hours per occurrence	No. of occurrences per respondent per year
1. Applications	N/A	
2. Survey and Studies	N/A	
3. Reporting requirements		
A. Familiarize with regulatory requirements ^c	1	1
B. Required activities		
Initial performance test	N/A	
C. Create information		
Annual IFR internal inspections and EFR seal gap measurements	8	1
D. Gather existing information	See 3C	
E. Write report		
Notification of construction/ reconstruction	See NSPS Kb	
Notification of anticipated startup	See NSPS Kb	
Notification of actual startup	See NSPS Kb	
Notification of emission test	N/A	
Report of emission test	N/A	
Notification of control installation and refill at 1st IFR degassing ^d	2	1
Annual inspection report	2	2
Supplemental delay report ^e	2	1
Quarterly emission report ^f	None expected	
Subtotal for Reporting Requirements		
4. Recordkeeping requirements		
A. Familiarize with regulatory requirements	See 3A	
B. Plan activities	See 4C	
C. Implement activities		
Filing and maintaining records	2	1
D. Develop record system	See 4C	
E. Time to enter information	See 4C	
F. Train personnel	N/A	
G. Audits	N/A	
Subtotal for Recordkeeping Requirements		
TOTAL ANNUAL BURDEN AND COST (rounded) ^g		
TOTAL CAPITAL AND O&M COST (rounded) ^g		
GRAND TOTAL (rounded) ^g		

Assumptions:

^a Estimate there will be 4 existing sources not covered by the HON. The burden for all new sources is include

^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for cleric

^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each ye

- ^d We believe that all vessels have been degassed and that all controls have been installed, as they were to be in
- ^e Estimate two percent of existing sources will request delay of repair in the annual report.
- ^f Assume no sources will select the option to have a fixed roof vented to a control device, and thus have no qu
- ^g Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

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(C)	(D)	(E)	(F)	(G)	(H)
Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
1	4	4	0.2	0.4	483.322
8	4	32	1.6	3.2	\$3,866.58
2	0	0	0	0	\$0
4	4	16	0.8	1.6	\$1,933.29
2	0	0	0	0	\$0
60					\$6,283
2	4	8	0.4	0.8	\$966.64
9					\$900
69					\$7,180
					\$0
					\$7,180

and in the NSPS subpart Kb regulation for storage vessels at 40 CFR Part 60.

total labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 2016 survey.

installed within 10 years of promulgation.

Quarterly reports of excess emissions.

3, "Table 2. Civilian workers, by occupational and industry group." The rates are from column 1, "Total compensation."

The rates have been increased by 110 percent to account for the benefit packages available to those employed by private

e industry.

Table G-11: Annual Respondent Burden and Cost for Subpart V

Burden item	(A)	(B)
	Person-hours per occurrence	No. of occurrences per respondent per year
1. Applications	N/A	
2. Survey and Studies	N/A	
3. Reporting requirements		
A. Familiarize with regulatory requirements ^c	1	1
B. Required activities		
Initial performance test	20	1
Reference method 21/22 test	4	1
Repeat performance test ^d	20	1
C. Create information	See 3B	
D. Gather existing information	See 3B	
E. Write report		
Notification of construction/reconstruction	2	1
Notification of anticipated startup	2	1
Notification of actual startup	2	1
Notification of initial/repeat performance test ^d	2	1
Report of performance test	See 3B	
Application for alternative	10	1
Initial report	8	1
Semiannual report	30	2
<i>Subtotal for Reporting Requirements</i>		
4. Recordkeeping requirements		
A. Familiarize with regulatory requirements	See 3A	
B. Plan activities	See 4C	
C. Implement activities	See 3B	
D. Develop record system	N/A	
E. Time to enter information		
Record of startup, shutdown, malfunction, etc.	1.5	1
Record of operation, parameters, and emissions	0.1	365
Record of leaks detected	0.4	52
F. Train personnel	N/A	
G. Audits	N/A	
<i>Subtotal for Recordkeeping Requirements</i>		
TOTAL ANNUAL BURDEN AND COST (rounded) ^e		
TOTAL CAPITAL AND O&M COST (rounded) ^e		
GRAND TOTAL (rounded) ^e		

Assumptions:

^a Assume 2 new sources per year and 65 existing sources subject to subpart V, but not the HON.

^b This ICR uses the following labor rates: \$108.28 for technical, \$144.33 for managerial, and \$53.34 for clerical.

^c This ICR assumes all existing respondents will have to familiarize with the regulatory requirements each year.

^d Assume 20 percent of initial performance tests must be repeated due to failure.

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

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(C)	(D)	(E)	(F)	(G)	(H)
Person-hours per respondent per year (C=AxB)	Respondents per year ^a	Technical hours per year (E=CxD)	Management hours per year (F=Ex0.05)	Clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
1	67	67	3.35	6.7	\$8,095.64
20	2	40	2	4	\$4,833.22
4	2	8	0.4	0.8	\$966.64
20	0.4	8	0.4	0.8	\$966.64
2	2	4	0.2	0.4	\$483.32
2	2	4	0.2	0.4	\$483.32
2	2	4	0.2	0.4	\$483.32
2	2.4	4.8	0.24	0.48	\$579.99
10	0.5	5	0.25	0.5	\$604.15
8	2	16	0.8	1.6	\$1,933.29
60	65	3,900	195	390	\$471,238.95
			4,670		\$490,668
1.5	2	3	0.15	0.3	\$362.49
36.5	65	2,372.5	118.63	237.25	\$286,670.36
20.8	65	1,352	67.6	135.2	\$163,362.84
			4,287		\$450,396
			8,960		\$941,000
					\$0
					\$941,000

rical labor. These rates are from the United States Department of Labor, Bureau of Labor Statistics, September 20 year.

016, "Table 2. Civilian workers, by occupational and industry group." The rates are from column 1, "Total compensation

1.” The rates have been increased by 110 percent to account for the benefit packages available to those employed by priv

ate industry.

Table G-12: Annual Respondent Burden and Cost for New Sources Subject to the HON

Burden item	(A)	(B)	(C)	(D)
	Average hours per activity	Number of activities per year per respondent	Technical hours per year per respondent	Estimated number of New Respondents
1. Familiarize with regulatory requirements	2.69	93	250	5
2. Plan activities	3.82	93	355	5
3. Training	3.47	38	132	5
4. Creation, testing, research, and development	2.4	1,778	4,266	5
5. Gather information, monitor/inspect	1.4	2,102	2,943	5
6. Process/compile and review	0.8	50	40	5
7. Complete reports	11.37	49	557	5
8. Record/disclose	9.98	49	489	5
9. Store/file	5.18	51	264	5
TOTAL ANNUAL BURDEN AND COST (rounded)				
TOTAL CAPITAL AND O&M COST (rounded)				
GRAND TOTAL (rounded)				

Assumptions:

(a) Average hours per activity are back-calculated by dividing (c) by (b).

(d) - From previously approved ICR.

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

See Attachment I for assumptions and further description of activities.

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(E)	(F)	(G)	(H)
Estimated technical hours per year (E=CxD)	Estimated managerial hours per year (F=Ex0.05)	Estimated clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
1,250	62.5	125	\$151,038.13
1,775	88.75	177.5	\$214,474.14
660	33	66	\$79,748.13
21,330	1,066.5	2,133	\$2,577,314.57
14,715	735.75	1,471.5	\$1,778,020.81
200	10	20	\$24,166.10
2,785	139.25	278.5	\$336,512.94
2,445	122.25	244.5	\$295,430.57
1,320	66	132	\$159,496.26
53,500			\$5,620,000
			See Table G-13
			\$5,620,000

Table G-13: Annual Respondent Burden and Cost for Existing Sources Subject to the HON

Burden item	(A)	(B)	(C)	(D)
	Average hours per activity	Number of activities per year per respondent	Technical hours per year per respondent ^a	Technical hours per year per respondent for wastewater ^a
1. Familiarize with regulatory requirements	3.61	23	69	14
2. Plan activities	6.08	13	61	18
3. Training	5.25	4	17	4
4. Creation, testing, research, and development	17.85	99	1,617	150
5. Gather information, monitor/inspect	2.5	677	1,693	0
6. Process/compile and review	20	1	20	0
7. Complete reports	81.2	5	388	18
8. Record/disclose	17.46	26	442	12
9. Store/file	6.77	35	222	15
TOTAL ANNUAL BURDEN AND COST (rounded)				
TOTAL CAPITAL AND O&M COST (rounded)				
GRAND TOTAL (rounded)				

Assumptions:

(a) = (c + d)/(b).

(c) - there are 265 existing sources out of the 345 total that will continue to comply with the HON.

(d) - the 80 facilities complying with the CAR will still be required to comply with HON requirements for wastewater.

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

See Attachment I for assumptions and further description of activities.

108.28

144.33

53.34

(E)	(F)	(G)	(H)
Estimated technical hours per year (E=Cx265 +Dx80)	Estimated managerial hours per year (F=Ex0.05)	Estimated clerical hours per year (G=Ex0.1)	Total cost per year (\$) ^b
19,405	970.25	1,940.5	\$2,344,715.85
17,605	880.25	1,760.5	\$2,127,220.95
4,825	241.25	482.5	\$583,007.16
440,505	22,025.25	44,050.5	###
448,645	22,432.25	44,864.5	###
5,300	265	530	\$640,401.65
104,260	5,213	10,426	###
118,090	5,904.5	11,809	###
60,030	3,001.5	6,003	\$7,253,454.92
1,400,000			\$147,000,000
			\$74,400,000
			\$221,000,000

Capital and O&M Costs for Referencing Subparts

(A)	(B)	(C)	(D)	(E)	(F)	(G)
Subpart	Capital/ Startup Cost for One Respondent	Number of New Respondents with Capital/ Startup Costs	Total Capital/ Startup Cost, (B X C)	Annual O&M Costs for One Respondent	Number of Respondents with O&M	Total O&M, (E X F)
NSPS Ka	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
NSPS Kb	\$13,500	2	\$27,000	\$1,350	438	\$591,300
Subtotal						\$618,000
NSPS VV	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
NSPS VVa	\$1,400	3	\$4,200	\$0	0	\$0
Subtotal						\$4,200
NSPS DDD	\$30,000	10	\$300,000	\$7,000	150	\$1,050,000
Subtotal						\$1,350,000
NSPS III	\$13,500	1	\$13,500	\$1,350	17	\$22,950
Subtotal						\$36,500
NSPS NNN	\$13,500	177	\$2,389,500	\$1,350	2,407	\$3,249,450
Subtotal						\$5,640,000
NSPS RRR	\$25,000	20	\$500,000	\$500	275	\$137,500
Subtotal						\$638,000
NESHAP BB	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
NESHAP Y	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
NESHAP V	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
NESHAP F	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
NESHAP G	\$25,000	5	\$125,000	\$275,000	270	\$74,250,000
Subtotal						\$74,400,000
NESHAP H	\$1,400	9	\$12,600	\$0	0	\$0
Subtotal						\$12,600
NESHAP I	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
CAR	\$0	0	\$0	\$275,000	80	\$22,000,000
Subtotal						\$22,000,000
CAR Revisions	\$0	0	\$0	\$0	0	\$0
Subtotal						\$0
Total for CAR and Referencing Subparts						\$105,000,000

2053
2068

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)
NSPS Ka					
1	0	174	0	0	174
2	0	174	0	0	174
3	0	174	0	0	174
Average	0	174	0	0	174
NSPS Kb					
1	37	728	0	0	765
2	37	765	0	0	802
3	37	802	0	0	839
Average	37	765	0	0	802
NSPS VV					
1	0	436	0	0	436
2	0	436	0	0	436
3	0	436	0	0	436
Average	0	436	0	0	436
NSPS VVa					
1	38	380	0	0	418
2	38	418	0	0	456
3	38	456	0	0	494
Average	38	418	0	0	456
NSPS DDD					
1	10	130	0	0	140
2	10	140	0	0	150
3	10	150	0	0	160
Average	10	140	0	0	150
NSPS III					
1	1	15	0	0	16
2	1	16	0	0	17
3	1	17	0	0	18
Average	1	16	0	0	17
NSPS NNN					
1	177	2053	0	0	2230
2	177	2230	0	0	2407
3	177	2407	0	0	2584

Average	177	2230	0	0	2407
NSPS RRR					
1	20	235	0	0	255
2	20	255	0	0	275
3	20	275	0	0	295
Average	20	255	0	0	275
NESHAP BB					
1	0	54	0	0	54
2	0	54	0	0	54
3	0	54	0	0	54
Average	0	54	0	0	54
NESHAP Y					
1	0	4	0	0	4
2	0	4	0	0	4
3	0	4	0	0	4
Average	0	4	0	0	4
NESHAP V					
1	2	63	0	0	65
2	2	65	0	0	67
3	2	67	0	0	69
Average	2	65	0	0	67
HON					
1	5	260	0	0	265
2	5	265	0	0	270
3	5	270	0	0	275
Average	5	265	0	0	270