

**Table 1.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Municipal Solid Waste Landfills - Subpart XXX - Year 1**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non-O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non-Labor Capital and O&M Costs Per Year ((B1+B2) x C x F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start-up Costs per occurrence	Footnotes
1. Applications	na															
2. Surveys and Studies	na															
3. Reporting Requirements																
A. Read and Understand Rule Requirements	40	\$0		1	0	40	138	0	5,520	552	276	\$524,161	\$0	0		d
B. Required Activities																
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	101	0	1,212	121	61	\$115,088	\$301,349.61	101	18,067	e, f
2. Surface methane monitoring quarterly	36	\$454		4	145	0	101	14,695	0	0	0	\$732,595	\$183,214	0		a, g
3. Wellhead monitoring monthly	40	\$17	\$204	12	480	0	101	48,480	0	0	0	\$2,416,922	\$20,604	1		a, g
C. Create Information	Included in 3B															
D. Gather Information	Included in 3B															
E. Report Preparation																
1. Initial design capacity report	2	\$0		1	0	2	7	0	14	1	1	\$1,329	\$0	7		h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0		i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	15	0	120	12	6	\$11,395	\$0	15		j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	15	0	180	18	9	\$17,092	\$36,828.71	15	10,067	j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0		l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0		l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	101	0	8,080	808	404	\$767,251	\$0	101		f
8. Revised design plan	20	\$0		1	0	20	10	0	202	20	10	\$19,181	\$0	10		n
9. Initial Performance Test	Included in 3B															
10. Compliance Report	Included in 3B															
11. Annual Report	27	\$0		1	0	27	101	0	2,727	273	136	\$258,947	\$0	101		o
<b>Reporting Subtotal</b>								63,175	18,055	1,806	903	\$4,863,961	\$541,996	350	\$28,134	
4. Recordkeeping Requirements																
A. Read Instructions	Included in 3a															
B. Plan Activities	na															
C. Implement Activities	na															
D. Develop Record System	na															
E. Record Information																
<b>1. Records of control system monitoring</b>																
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	101	0	6,060	606	303	\$575,438	\$0	0		p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	101	0	13,332	1,333	667	\$1,265,963	\$0	0		p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	37	0	148	15	7	\$14,054	\$0	1		q
F. Personnel Training	na															
G. Time for Audits	na															
<b>Recordkeeping Subtotal</b>								0	19,540	1,954	977	\$1,855,455	\$0	1	\$0	
<b>Totals</b>								<b>63,175</b>	<b>37,595</b>	<b>3,760</b>	<b>1,880</b>	<b>\$6,719,416</b>	<b>\$541,996</b>	<b>351</b>	<b>\$28,134</b>	

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements. Based on the regulatory database, 69% of these respondents are private and 31% are public.
- e Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. This is a one-time requirement.
- g
 

Assumes 101 controlled landfill during the first year of this ICR period. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- h Based on the regulatory database, there are 7 greenfields and modified landfills with design capacity less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume and thus will complete the initial design capacity report in the first year of this ICR. This is a one-time requirement. Based on the regulatory database, 14% of these respondents are private and 86% are public.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 40% are public and 60% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate include
- p Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on recent
- q Number of occurrences is based on the total number of landfills that are subject to the standard but not controlling. Based on the regulatory database, 51% of these respondents are private and 49% are public. These records are much more simplistic for these sources than landfills controlling emissions.

**Table 1.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Publicly-Owned Municipal Solid Waste Landfills - Subpart XXX - Year 1**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non- Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non- Labor Capital and O&M Costs Per Year ((B1+B2) x Cx F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start- up Costs per occurrence	Footnotes	
1. Applications	na																
2. Surveys and Studies	na																
3. Reporting Requirements																	
A. Read and Understand Rule Requirements	40	\$0		1	0	40	43	0	1,720	172	86	\$163,326	\$0	0			d
B. Required Activities																	
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	25	0	300	30	15	\$28,487	\$74,591.49	25			e, f
2. Surface methane monitoring quarterly	36	\$454		4	145	0	25	3,637	0	0	0	\$181,335	\$45,350	0			a, g
3. Wellhead monitoring monthly	40	\$17		12	480	0	25	12,000	0	0	0	\$598,248	\$5,100	1			a, g
C. Create Information	Included in 3B																
D. Gather Information	Included in 3B																
E. Report Preparation																	
1. Initial design capacity report	2	\$0		1	0	2	6	0	12	1	1	\$1,139	\$0	6			h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	6	0	48	5	2	\$4,558	\$0	6			j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	6	0	72	7	4	\$6,837	\$14,731	6			j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0			l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0			l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	25	0	2,000	200	100	\$189,914	\$0	25			f
8. Revised design plan	20	\$0		1	0	20	3	0	50	5	3	\$4,748	\$0	3			n
9. Initial Performance Test	Included in 3B																
10. Compliance Report	Included in 3B																
11. Annual Report	27	\$0		1	0	27	25	0	675	68	34	\$64,096	\$0	25			o
<b>Reporting Subtotal</b>								15,637	4,877	488	244	\$1,242,687	\$139,773	96			\$28,134
4. Recordkeeping Requirements																	
A. Read Instructions	Included in 3a																
B. Plan Activities	na																
C. Implement Activities	na																
D. Develop Record System	na																
E. Record Information																	
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	25	0	1,500	150	75	\$142,435	\$0	0			p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	25	0	3,300	330	165	\$313,357	\$0	0			p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	18	0	72	7	4	\$6,837	\$0	0			q
E. Personnel Training	na																
F. Time for Audits	na																
<b>Recordkeeping Subtotal</b>								0	4,872	487	244	\$462,629	\$0	0			\$0
<b>Totals</b>								<b>15,637</b>	<b>9,749</b>	<b>975</b>	<b>487</b>	<b>\$1,705,317</b>	<b>\$139,773</b>	<b>96</b>			<b>\$28,134</b>

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements. Based on the regulatory database, 69% of these respondents are private and 31% are public.
- e Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. This is a one-time requirement.
- g Assumes 101 controlled landfill during the first year of this ICR period. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- h Based on the regulatory database, there are 7 greenfields and modified landfills with design capacity less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume and thus will complete the initial design capacity report in the first year of this ICR. This is a one-time requirement. Based on the regulatory database, 14% of these respondents are private and 86% are public.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 40% are public and 60% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate included an assumption of a semi-annual report to satisfy the requirements of the landfills NESHAP, we adjusted this estimate by half to account for the single report required by this NSPS, or \$2500, which is approximately 27 technical hours per occurrence.
- p Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). This is approximately 5 technical hours per occurrence for data compilation and review and 11 hours for recordkeeping and data storage.

**Table 1.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Privately-Owned Municipal Solid Waste Landfills - Subpart XXX - Year 1**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non- Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non- Labor Capital and O&M Costs Per Year ((B1+B2) x Cx F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start- up Costs per occurrence	Footnotes	
1. Applications	na																
2. Surveys and Studies	na																
3. Reporting Requirements																	
A. Read and Understand Rule Requirements	40	\$0		1	0	40	95	0	3,800	380	190	\$360,836	\$0	0			d
B. Required Activities																	
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	76	0	912	91	46	\$86,601	\$226,758.12	76	18,067		e, f
2. Surface methane monitoring quarterly	36	\$454		4	145	0	76	11,057	0	0	0	\$551,259	\$137,864	0			a, g
3. Wellhead monitoring monthly	40	\$17		12	480	0	76	36,480	0	0	0	\$1,818,674	\$15,504	1			a, g
C. Create Information	Included in 3B																
D. Gather Information	Included in 3B																
E. Report Preparation																	
1. Initial design capacity report	2	\$0		1	0	2	1	0	2	0	0	\$190	\$0	1			h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	9	0	72	7	4	\$6,837	\$0	9			j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	9	0	108	11	5	\$10,255	\$22,097	9	10,067		j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0			l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0			l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	76	0	6,080	608	304	\$577,337	\$0	76			f
8. Revised design plan	20	\$0		1	0	20	8	0	152	15	8	\$14,433	\$0	8			n
9. Initial Performance Test	Included in 3B																
10. Compliance Report	Included in 3B																
11. Annual Report	27	\$0		1	0	27	76	0	2,052	205	103	\$194,851	\$0	76			o
Reporting Subtotal								47,537	13,178	1,318	659	\$3,621,273	\$402,223	255	\$28,134		
4. Recordkeeping Requirements																	
A. Read Instructions	Included in 3a																
B. Plan Activities	na																
C. Implement Activities	na																
D. Develop Record System	na																
E. Record Information																	
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	76	0	4,560	456	228	\$433,003	\$0	0			p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	76	0	10,032	1,003	502	\$952,606	\$0	0			p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	19	0	76	8	4	\$7,217	\$0	0			q
E. Personnel Training	na																
F. Time for Audits	na																
Recordkeeping Subtotal								0	14,668	1,467	733	\$1,392,826	\$0	0	\$0		
<b>Totals</b>								<b>47,537</b>	<b>27,846</b>	<b>2,785</b>	<b>1,392</b>	<b>\$5,014,099</b>	<b>\$402,223</b>	<b>255</b>	<b>\$28,134</b>		

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
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- d This is a one time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements. Based on the regulatory database, 69% of these respondents are private and 31% are public.
- e Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. This is a one-time requirement.
- g Assumes 101 controlled landfill during the first year of this ICR period. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- h Based on the regulatory database, there are 7 greenfields and modified landfills with design capacity less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume and thus will complete the initial design capacity report in the first year of this ICR. This is a one-time requirement. Based on the regulatory database, 14% of these respondents are private and 86% are public.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 40% are public and 60% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate included an assumption of a semi-annual report to satisfy the requirements of the landfills NESHAP, we adjusted this estimate by half to account for the single report required by this NSPS, or \$2500, which is approximately 27 technical hours per occurrence.
- p Assumes 101 controlled landfill during the first year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). This is approximately 5 technical hours per occurrence for data compilation and review and 11 hours for recordkeeping and data storage.

**Table 1.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Municipal Solid Waste Landfills - Subpart XXX - Year 2**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non-O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non-Labor Capital and O&M Costs Per Year ((B1+B2) x C x F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start-up Costs per occurrence	Footnotes
1. Applications	na															
2. Surveys and Studies	na															
3. Reporting Requirements																
A. Read and Understand Rule Requirements	40	\$0		1	0	40	9	0	360	36	18	\$34,184	\$0	0		d
B. Required Activities																
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	3	0	36	4	2	\$3,418	\$310,300.59	3	18,067	e, f
2. Surface methane monitoring quarterly	36	\$454		4	145	0	104	15,131	0	0	0	\$754,355	\$188,656	0		a, g
3. Wellhead monitoring monthly	40	\$17		12	480	0	104	49,920	0	0	0	\$2,488,712	\$21,216	1		a, g
C. Create Information																
D. Gather Information																
E. Report Preparation																
1. Initial design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0		h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0		i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	18	0	144	14	7	\$13,674	\$0	18		j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	3	0	36	4	2	\$3,418	\$44,194	3	10,067	j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0		l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0		l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	3	0	240	24	12	\$22,790	\$0	3		f
8. Revised design plan	20	\$0		1	0	20	0	0	6	1	0	\$570	\$0	0		n
9. Initial Performance Test																
10. Compliance Report																
11. Annual Report	27	\$0		1	0	27	104	0	2,808	281	140	\$266,639	\$0	104		o
<b>Reporting Subtotal</b>								65,051	3,630	363	182	\$3,587,760	\$564,367	131	\$28,134	
4. Recordkeeping Requirements																
A. Read Instructions																
B. Plan Activities																
C. Implement Activities																
D. Develop Record System																
E. Record Information																
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	104	0	6,240	624	312	\$592,530	\$0	0		p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	104	0	13,728	1,373	686	\$1,303,566	\$0	0		p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	43	0	172	17	9	\$16,333	\$0	1		q
E. Personnel Training																
F. Time for Audits																
<b>Recordkeeping Subtotal</b>								0	20,140	2,014	1,007	\$1,912,429	\$0	1	\$0	
<b>Totals</b>								<b>65,051</b>	<b>23,770</b>	<b>2,377</b>	<b>1,189</b>	<b>\$5,500,189</b>	<b>\$564,367</b>	<b>132</b>	<b>\$28,134</b>	

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements. Based on the regulatory database, 78% of these respondents are private and 22% are public.
- e Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 3 additional controlled landfills during the second year of this ICR period. 25% of which are public and 75% of which are private. This is a one-time requirement.
- g A total of 104 controlled sites in year 2. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- h No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 36% are public and 64% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 104 controlled landfill during the second year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate includes 104 controlled landfill during the second year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on re
- p Assumes 104 controlled landfill during the second year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on re

**Table 2.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Publicly-Owned Municipal Solid Waste Landfills - Subpart XXX - Year 2**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non- Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non- Labor Capital and O&M Costs Per Year ((B1+B2) x Cx F)	(M) Total Number of Responses per Year (C X F)	(N) Capital/Start- up Costs per occurrence	Footnotes	
1. Applications	na																
2. Surveys and Studies	na																
3. Reporting Requirements																	
A. Read and Understand Rule Requirements	40	\$0		1	0	40	2	0	80	8	4	\$7,597	\$0	0			d
B. Required Activities																	
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	1	0	12	1	1	\$1,139	\$77,575.15	1	18,067		e, f
2. Surface methane monitoring quarterly	36	\$454		4	145	0	26	3,783	0	0	0	\$188,589	\$47,164	0			a, g
3. Wellhead monitoring monthly	40	\$17		12	480	0	26	12,480	0	0	0	\$622,178	\$5,304	1			a, g
C. Create Information	Included in 3B																
D. Gather Information	Included in 3B																
E. Report Preparation																	
1. Initial design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	7	0	52	5	3	\$4,938	\$0	7			j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	1	0	6	1	0	\$570	\$15,959	1	10,067		j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0			l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0			l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	1	0	80	8	4	\$7,597	\$0	1			f
8. Revised design plan	20	\$0		1	0	20	0	0	2	0	0	\$190	\$0	0			n
9. Initial Performance Test	Included in 3B																
10. Compliance Report	Included in 3B																
11. Annual Report	27	\$0		1	0	27	26	0	702	70	35	\$66,660	\$0	26			o
Reporting Subtotal								16,263	934	93	47	\$899,456	\$146,002	35	\$28,134		
4. Recordkeeping Requirements																	
A. Read Instructions	Included in 3a																
B. Plan Activities	na																
C. Implement Activities	na																
D. Develop Record System	na																
E. Record Information																	
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	26	0	1,560	156	78	\$148,133	\$0	0			p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	26	0	3,432	343	172	\$325,892	\$0	0			p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	19	0	76	8	4	\$7,217	\$0	0			q
F. Personnel Training	na																
G. Time for Audits	na																
Recordkeeping Subtotal								0	5,068	507	253	\$481,241	\$0	0	\$0		
<b>Totals</b>								<b>16,263</b>	<b>6,002</b>	<b>600</b>	<b>300</b>	<b>\$1,380,697</b>	<b>\$146,002</b>	<b>35</b>	<b>\$28,134</b>		

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements. Based on the regulatory database, 78% of these respondents are private and 22% are public.
- e
- f Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- g Assumes 3 additional controlled landfills during the second year of this ICR period. 25% of which are public and 75% which are private. This is a one-time requirement.
- h A total of 104 controlled sites in year 2. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- i No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.
- j Assumes no landfills will submit an amended design capacity report.
- k We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 36% are public and 64% are private.
- l Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- m We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- n Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- o We have assumed that 10% of controlled landfill will revise their design plan.
- p Assumes 104 controlled landfill during the second year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate included an assumption of a semi-annual report to satisfy the requirements of the landfills NESHAP, we adjusted this estimate by half to account for the single report required by this NSPS, or \$2500, which is approximately 27 technical hours per occurrence.
- q Assumes 104 controlled landfill during the second year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). This is approximately 5 technical hours per occurrence for data compilation and review and 11 hours for recordkeeping and data storage.

**Table 2.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Privately-Owned Municipal Solid Waste Landfills - Subpart XXX - Year 2**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non- Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non- Labor Capital and O&M Costs Per Year ((B1+B2) x Cx F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start- up Costs per occurrence	Footnotes	
1. Applications	na																
2. Surveys and Studies	na																
3. Reporting Requirements																	
A. Read and Understand Rule Requirements	40	\$0		1	0	40	7	0	280	28	14	\$26,588	\$0	0		d	
B. Required Activities																	
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	2	0	24	2	1	\$2,279	\$232,725.44	2	18,067	e, f	
2. Surface methane monitoring quarterly	36	\$454		4	145	0	78	11,348	0	0	0	\$565,766	\$141,492	0		a, g	
3. Wellhead monitoring monthly	40	\$17		12	480	0	78	37,440	0	0	0	\$1,866,534	\$15,912	1		a, g	
C. Create Information	Included in 3B																
D. Gather Information	Included in 3B																
E. Report Preparation																	
1. Initial design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0		h	
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0		i	
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	12	0	92	9	5	\$8,736	\$0	12		j	
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	3	0	30	3	2	\$2,849	\$28,235	3	10,067	j, k	
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0		l	
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0		l,m	
7. Collection and Control System Design Plan	80	\$0		1	0	80	2	0	160	16	8	\$15,193	\$0	2		f	
8. Revised design plan	20	\$0		1	0	20	0	0	4	0	0	\$380	\$0	0		n	
9. Initial Performance Test	Included in 3B																
10. Compliance Report	Included in 3B																
11. Annual Report	27	\$0		1	0	27	78	0	2,106	211	105	\$199,979	\$0	78		o	
Reporting Subtotal								48,788	2,696	270	135	\$2,688,303	\$418,365	96	\$28,134		
4. Recordkeeping Requirements																	
A. Read Instructions	Included in 3a																
B. Plan Activities	na																
C. Implement Activities	na																
D. Develop Record System	na																
E. Record Information																	
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	78	0	4,680	468	234	\$444,398	\$0	0		p	
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	78	0	10,296	1,030	515	\$977,675	\$0	0		p	
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	24	0	96	10	5	\$9,116	\$0	0		q	
E. Personnel Training	na																
F. Time for Audits	na																
Recordkeeping Subtotal								0	15,072	1,507	754	\$1,431,188	\$0	0	\$0		
<b>Totals</b>								<b>48,788</b>	<b>17,768</b>	<b>1,777</b>	<b>888</b>	<b>\$4,119,492</b>	<b>\$418,365</b>	<b>96</b>	<b>\$28,134</b>		

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements. Based on the regulatory database, 78% of these respondents are private and 22% are public.
- e Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 3 additional controlled landfills during the second year of this ICR period. 25% of which are public and 75% of which are private. This is a one-time requirement.
- g A total of 104 controlled sites in year 2. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- h No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 36% are public and 64% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 104 controlled landfill during the second year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate included an assumption of a semi-annual report to satisfy the requirements of the landfills NESHAP, we adjusted this estimate by half to account for the single report required by this NSPS, or \$2500, which is approximately 27 technical hours per occurrence.

**Table 1.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Municipal Solid Waste Landfills - Subpart XXX - Year 3**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non-Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non-Labor Capital and O&M Costs Per Year ((B1+B2) x C x F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start-up Costs per occurrence	Footnotes
1. Applications	na															
2. Surveys and Studies	na															
3. Reporting Requirements																
A. Read and Understand Rule Requirements	40	\$0		1	0	40	0	0	0	0	0	\$0	\$0	0		d
B. Required Activities																
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	13	0	156	16	8	\$14,813	\$349,088	13	18,067	e, f
2. Surface methane monitoring quarterly	36	\$454		4	145	0	117	17,023	0	0	0	\$848,649	\$212,238	0		a, g
3. Wellhead monitoring monthly	40	\$17		12	480	0	117	56,160	0	0	0	\$2,799,801	\$23,868	1		a, g
C. Create Information	Included in 3B															
D. Gather Information	Included in 3B															
E. Report Preparation																
1. Initial design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0		h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0		i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	12	0	92	9	5	\$8,736	\$0	12		j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	0	0	0	0	0	\$0	\$44,194	0	10,067	j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0		l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0		l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	13	0	1,040	104	52	\$98,755	\$0	13		f
8. Revised design plan	20	\$0		1	0	20	1	0	26	3	1	\$2,469	\$0	1		n
9. Initial Performance Test	Included in 3B															
10. Compliance Report	Included in 3B															
11. Annual Report	27	\$0		1	0	27	117	0	3,159	316	158	\$299,968	\$0	117		o
<b>Reporting Subtotal</b>								73,183	4,473	447	224	\$4,073,192	\$629,389	156	\$28,134	
4. Recordkeeping Requirements																
A. Read Instructions	Included in 3a															
B. Plan Activities	na															
C. Implement Activities	na															
D. Develop Record System	na															
E. Record Information																
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	117	0	7,020	702	351	\$666,596	\$0	0		p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	117	0	15,444	1,544	772	\$1,466,512	\$0	0		p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	30	0	120	12	6	\$11,395	\$0	1		q
F. Personnel Training	na															
G. Time for Audits	na															
<b>Recordkeeping Subtotal</b>								0	22,584	2,258	1,129	\$2,144,503	\$0	1	\$0	
<b>Totals</b>								<b>73,183</b>	<b>27,057</b>	<b>2,706</b>	<b>1,353</b>	<b>\$6,217,695</b>	<b>\$629,389</b>	<b>157</b>	<b>\$28,134</b>	

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements.
- e Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 13 additional controlled landfill during the third year of this ICR period. 26% of which are public and 74% of which are private. This is a one-time requirement.
- g A total of 117 controlled sites in year 3. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require remonitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- h No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 39% are public and 61% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 117 controlled landfill during the third year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate included
- p Assumes 117 controlled landfill during the third year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on recent

**Table 3.A. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Publicly-Owned Municipal Solid Waste Landfills - Subpart XXX - Year 3**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Non- Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non- Labor Capital and O&M Costs Per Year ((B1+B2) x Cx F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start- up Costs per occurrence	Footnotes	
1. Applications	na																
2. Surveys and Studies	na																
3. Reporting Requirements																	
A. Read and Understand Rule Requirements	40	\$0		1	0	40	0	0	0	0	0	\$0	\$0	0			d
B. Required Activities																	
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	4	0	48	5	2	\$4,558	\$89,509.78	4	18,067		e, f
2. Surface methane monitoring quarterly	36	\$454		4	145	0	30	4,365	0	0	0	\$217,602	\$54,420	0			a, g
3. Wellhead monitoring monthly	40	\$17		12	480	0	30	14,400	0	0	0	\$717,898	\$6,120	1			a, g
C. Create Information	Included in 3B																
D. Gather Information	Included in 3B																
E. Report Preparation																	
1. Initial design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	5	0	36	4	2	\$3,418	\$0	5			j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	0	0	0	0	0	\$0	\$15,959	0	10,067		j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0			l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0			l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	4	0	320	32	16	\$30,386	\$0	4			f
8. Revised design plan	20	\$0		1	0	20	0	0	8	1	0	\$760	\$0	0			n
9. Initial Performance Test	Included in 3B																
10. Compliance Report	Included in 3B																
11. Annual Report	27	\$0		1	0	27	30	0	810	81	41	\$76,915	\$0	30			o
Reporting Subtotal								18,765	1,222	122	61	\$1,051,537	\$166,009	43	\$28,134		
4. Recordkeeping Requirements																	
A. Read Instructions	Included in 3a																
B. Plan Activities	na																
C. Implement Activities	na																
D. Develop Record System	na																
E. Record Information																	
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	30	0	1,800	180	90	\$170,922	\$0	0			p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	30	0	3,960	396	198	\$376,029	\$0	0			p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	15	0	60	6	3	\$5,697	\$0	0			q
E. Personnel Training	na																
F. Time for Audits	na																
Recordkeeping Subtotal								0	5,820	582	291	\$552,648	\$0	0	\$0		
<b>Totals</b>								<b>18,765</b>	<b>7,042</b>	<b>704</b>	<b>352</b>	<b>\$1,604,185</b>	<b>\$166,009</b>	<b>43</b>	<b>\$28,134</b>		

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one-time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements.
- e Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 13 additional controlled landfill during the third year of this ICR period. 26% of which are public and 74% of which are private. This is a one-time requirement.
- g A total of 117 controlled sites in year 3. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCS is well-operated and the surface is well sealed.
- h No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 39% are public and 61% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 117 controlled landfill during the third year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate included an assumption of a semi-annual report to satisfy the requirements of the landfills NESHAP, we adjusted this estimate by half to account for the single report required by this NSPS, or \$2500, which is approximately 27 technical hours per occurrence.
- p Assumes 117 controlled landfill during the third year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). This is approximately 5 technical hours per occurrence for data compilation and review and 11 hours for recordkeeping and data storage.

**Table 3.B. Annual Respondent Burden and Cost of Recordkeeping and Reporting Requirements for the Standards of Performance for Privately-Owned Municipal Solid Waste Landfills - Subpart XXX - Year 3**

Burden Item	(A) Respondent Hours per Occurrence <sup>a</sup>	(B1) Annualized Non-Labor Capital Costs Per Occurrence	(B2) Annual Labor O&M Costs Per Occurrence	(C) Number of Occurrences Per Respondent Per Year	(D) Civil Engineer Technician Hours per Respondent Per Year (A X C)	(E) Technical Hours per Respondent Per Year (A X C)	(F) Number of Respondents Per Year	(G) Civil Engineer Technician per Year @ \$49.85	(H) Technical Hours per Year @ \$86.46 (E X F)	(I) Clerical Hours per Year @ \$30.28 (H X 0.1)	(J) Management Hours per Year @ \$109.43 (H X .05)	(K) Total Labor Costs Per Year <sup>b</sup>	(L) Total Annualized Non- Labor Capital and O&M Costs Per Year ((B1+B2) x Cx F)	(M) Total Number of Responses per Year (C X F) <sup>c</sup>	(N) Capital/Start- up Costs per occurrence	Footnotes	
1. Applications	na																
2. Surveys and Studies	na																
3. Reporting Requirements																	
A. Read and Understand Rule Requirements	40	\$0		1	0	40	0	0	0	0	0	\$0	\$0	0			d
B. Required Activities																	
1. Initial performance test report	12	\$1,984	\$1,000	1	0	12	9	0	108	11	5	\$10,255	\$259,578	9	18,067	e, f	
2. Surface methane monitoring quarterly	36	\$454		4	145	0	87	12,658	0	0	0	\$631,047	\$157,818	0			a, g
3. Wellhead monitoring monthly	40	\$17		12	480	0	87	41,760	0	0	0	\$2,081,903	\$17,748	1			a, g
C. Create Information	Included in 3B																
D. Gather Information	Included in 3B																
E. Report Preparation																	
1. Initial design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			h
2. Amended design capacity report	2	\$0		1	0	2	0	0	0	0	0	\$0	\$0	0			i
3. Report of NMOC rate (Tier 1)	8	\$0		1	0	8	7	0	56	6	3	\$5,318	\$0	7			j
4. Report of NMOC rate (Tier 2)	12	\$2,455		1	0	12	0	0	0	0	0	\$0	\$28,235	0	10,067		j, k
5. Landfill Closure Report	1	\$0		1	0	1	0	0	0	0	0	\$0	\$0	0			l
6. Equipment Removal Report	36	\$0		1	0	36	0	0	0	0	0	\$0	\$0	0			l,m
7. Collection and Control System Design Plan	80	\$0		1	0	80	9	0	720	72	36	\$68,369	\$0	9			f
8. Revised design plan	20	\$0		1	0	20	1	0	18	2	1	\$1,709	\$0	1			n
9. Initial Performance Test	Included in 3B																
10. Compliance Report	Included in 3B																
11. Annual Report	27	\$0		1	0	27	87	0	2,349	235	117	\$223,053	\$0	87			o
Reporting Subtotal								54,418	3,251	325	163	\$3,021,654	\$463,380	113	\$28,134		
4. Recordkeeping Requirements																	
A. Read Instructions	Included in 3a																
B. Plan Activities	na																
C. Implement Activities	na																
D. Develop Record System	na																
E. Record Information																	
1. Data Compilation and Review (controllers)	5	\$0		12	0	60	87	0	5,220	522	261	\$495,674	\$0	0			p
2. Recordkeeping and Data Storage (controllers)	11	\$0		12	0	132	87	0	11,484	1,148	574	\$1,090,483	\$0	0			p
3. Recordkeeping and Data Storage (others)	4	\$0		1	0	4	15	0	60	6	3	\$5,697	\$0	0			q
E. Personnel Training	na																
F. Time for Audits	na																
Recordkeeping Subtotal								0	16,764	1,676	838	\$1,591,855	\$0	0	\$0		
<b>Totals</b>								<b>54,418</b>	<b>20,015</b>	<b>2,002</b>	<b>1,001</b>	<b>\$4,613,509</b>	<b>\$463,380</b>	<b>113</b>	<b>\$28,134</b>		

**FOOTNOTES**

- a We have assumed all respondent hours equals the number of Technical Hours except for surface methane monitoring and wellhead monitoring which fall under Civil Engineer Technician Hours.
- b This ICR uses mean hourly wage for the following labor categories from the United States Department of Labor, Bureau of Labor Statistics, May 2013, "National Occupational Employment and Wage Estimates United States": Managers, All Other for Managerial labor, Civil Engineer for Technical labor, and Office Clerks, General for Clerical labor. The rates have been increased by 110 percent to account for the benefit packages available to those employed by private industry.
- c Includes only responses that are submitted as reports.
- d This is a one-time requirement for new respondents. We have assumed that each new respondent will take 40 hours to read instructions as part of their reporting requirements.
- e
- f Based on the annualized capital costs for method 25 or 25C over 15 years, which is the expected lifetime of the flare or other destruction device. Other capital costs related to flare station monitoring include a thermocouple, flowmeter and data recorder. The costs for these equipment purchases were provided based on industry comment on the ICR renewal 1557.09 burden. These capital/start-up costs were also annualized over 15 years, since this is a one-time requirement. In addition, the industry comments also reported an annual O&M cost for these equipment in the most recent ICR renewal, and these costs were incorporated here.
- f Assumes 13 additional controlled landfill during the third year of this ICR period. 26% of which are public and 74% of which are private. This is a one-time requirement.
- g A total of 117 controlled sites in year 3. For surface monitoring: The average acreage of controlled sites is estimated to be 145 acres under the proposed 2.5/34 option. We assumed weekly equipment rental costs at \$350/week, and one week per occurrence. In addition, the landfill will need to purchase calibration gases and hydrogen fuel to operate the surface monitoring equipment. 25% of which are public and 75% of which are private. For wellhead monitoring: The estimated burden was based on industry consultation of \$2000 per month during the most recent ICR renewal for subpart WWW (ICR# 1557.09), or approximately 40 hours of technician labor time. The burden provided did not breakdown labor vs. non-labor costs, therefore we have not incorporated equipment rental costs in this estimate. We did however include costs for calibration gases for the wellhead equipment. Cost of re-monitoring for exceedances of surface monitoring or wellhead monitoring are not included because the rule does not require re-monitoring unless an exceedance is found. Landfills can minimize the number of exceedances found by ensuring the GCCS is well-operated and the surface is well sealed.
- h No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.
- i Assumes no landfills will submit an amended design capacity report.
- j We have assumed that 50 percent of uncontrolled landfills with use Tier 1 calculations annually and 50 percent will use Tier 2 calculations once every 5 years for their NMOC reports. Of the landfills estimated to remain uncontrolled in the regulatory database 39% are public and 61% are private.
- k Based on the annualized capital costs for conducting a method 25 or 25C over 5 years, since a Tier 2 test must be repeated every 5 years. Labor burden is assigned once every 5 years.
- l We have assumed that no controlled landfill will close or remove equipment during this ICR period.
- m Equipment Removal Report requires inclusion of 3 successive NMOC rates using Tier 2 calculations to demonstrate landfill is below the NMOC threshold.
- n We have assumed that 10% of controlled landfill will revise their design plan.
- o Assumes 117 controlled landfill during the third year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$5000 per year for compliance reporting (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). Since this estimate included an assumption of a semi-annual report to satisfy the requirements of the landfills NESHAP, we adjusted this estimate by half to account for the single report required by this NSPS, or \$2500, which is approximately 27 technical hours per occurrence.
- p Assumes 117 controlled landfill during the third year of this ICR period. 25% of which are public and 75% of which are private. The estimated burden was based on industry consultation of \$1000 per month for recordkeeping and data storage per month and \$500 for data compilation and review per month (see comment on recent ICR renewal for subpart WWW, ICR# 1557.09). This is approximately 5 technical hours per occurrence for data compilation and review and 11 hours for recordkeeping and data storage.

**Table 1.C. Annual Federal Government Burden and Cost of Recordkeeping and Reporting  
for Municipal Solid Waste Landfills - Subpart XXX - Year 1**

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Management hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, \$ <sup>k</sup>	Footnotes
1. Read and understand rule requirements	40	10	400	400	20	40	\$21,145	a
2. Enter and update information into agency recordkeeping system	2	101	202	202	10	20	\$10,678	b
3. Required activities								
A. Observe initial performance test	12	20	242	242	12	24	\$12,814	c, d
B. Observe surface methane monitoring quarterly	20	20	404	404	20	40	\$36,789	c
C. Review operating parameters	1	101	101	101	5	10	\$5,339	d
D. Review continuous parameter monitoring	1	101	101	101	5	10	\$5,339	e
E. Review notification of performance test	2	101	202	202	10	20	\$10,678	d
4. Excess Emissions Enforcement Activities	24	10	0	0	0	0	\$0	f
5. Notification requirements								
A. Review amended design capacity report	2	0	0	0	0	0	\$0	g
6. Reporting requirements								
A. Review initial design capacity report	1	7	7	7	0	1	\$370	h
B. Review annual NMOC emission rate report	2	30	60	60	3	6	\$3,172	i
C. Review landfill closure report	1	0	0	0	0	0	\$0	j
D. Review equipment removal report	1	0	0	0	0	0	\$0	j
E. Review Collection and Control System Design Plan	15	101	1,515	1,515	76	152	\$80,087	d
F. Review Revised Collection and Control System Design Plan	5	10	51	51	3	5	\$2,670	k
G. Review Initial Performance Test	12	101	1,212	1,212	61	121	\$64,069	d
H. Review Annual Report	2	101	202	202	10	20	\$10,678	
7. Travel Expenses for Tests Attended	3 days * (\$118 hotel + \$58 meals/incidentals) + (\$600 round trip) = \$1128 per trip						\$45,571	m
<b>TOTAL BURDEN AND COST (SALARY)</b>				4,699	235	470	<b>\$309,399</b>	
<b>TOTAL ANNUAL HOURS</b>						<b>5,404</b>		

a Number of occurrences is the number of EPA Regions (10 regions). This is a one-time occurrence that is only incurred during the first year of compliance.

b Number of occurrences is based on the total number of landfills that are subject to the standard as well as the number of sources that fall below the thresholds of the standard.

c Number of occurrences is based on the assumption that EPA personnel will observe 20% of the landfills where initial performance tests and surface methane monitoring that occur. Cost to conduct surface methane monitoring includes time for monitor rental for agency as well as agency labor, which is \$764 per occurrence based on the size of the landfills expected to install controls beginning in year 2020.

d Number of occurrences is based on the estimated number of controlled landfills expected to come online or modify by 2017. This is a one-time occurrence that is only incurred during the first year of compliance.

e Number of occurrences is based on the estimated number of controlled landfills expected to come online or modify by 2017.

f Number of occurrences is based on the assumption that of the landfills that test, 10% of them will have exceedances and need enforcement.

g Assumes no controlled landfills during this ICR period will have modifications.

h Based on the regulatory database, there are 7 greenfields and modified landfills with design capacity less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume and thus will complete the initial design capacity report in the first year of this ICR. This is a one-time requirement. Assumes no landfills will submit an amended design capacity report.

i Number of occurrences is the number of uncontrolled landfills that use Tier 1 or Tier 2 calculations for their NMOC reports.

j We have assumed that no controlled landfill will close or remove equipment during this ICR period.

k Assumes 10 percent of respondents submitting a design plan will submit a revised design plan to account for changes to the landfill or the GCCS as allowed for in 60.767(h).

l Assumes the following labor rates: \$63.52 per hour for Management labor; \$447.14 per hour for Technical labor, and \$25.50 per hour for Clerical labor. These rates are from the Office of Personnel Management (OPM), 2014 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees. These rates can be obtained from the OPM web site, <https://www.opm.gov/policy-data-oversight/pay-leave/salaries-wages/2014/general-schedule/>.

m Total cost is based on the number of trips taken by EPA to observe performance tests in year 1 (3.A. & 3.B.) multiplied by \$1128 per trip. The source for hotel and meals/incidental costs is based on FY' 15 per diem rates, averaged across all locations in the United States. Airfares are estimated based on experience from other rulemakings. See: <http://www.gsa.gov/portal/category/100120>

**Table 2.C. Annual Federal Government Burden and Cost of Recordkeeping and Reporting  
for Municipal Solid Waste Landfills - Subpart XXX - Year 2**

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Management hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, \$ <sup>k</sup>	Footnotes
1. Read and understand rule requirements	40	0	0	0	0	0	\$0	a
2. Enter and update information into agency recordkeeping system	2	104	208	208	10	21	\$10,995	b
3. Required activities								
A. Observe initial performance test	12	1	7	7	0	1	\$381	c, d
B. Observe surface methane monitoring quarterly	20	21	416	416	21	42	\$37,882	c
C. Review operating parameters	1	3	3	3	0	0	\$159	d
D. Review continuous parameter monitoring	1	104	104	104	5	10	\$5,498	e
E. Review notification of performance test	2	3	6	6	0	1	\$317	d
4 Excess Emissions Enforcement Activities	24	0	0	0	0	0	\$0	f
5 Notification requirements								
A. Review amended design capacity report	2	0	0	0	0	0	\$0	g
6. Reporting requirements								
A. Review initial design capacity report	1	0	0	0	0	0	\$0	h
B. Review annual NMOC emission rate report	2	21	42	42	2	4	\$2,220	i
C. Review landfill closure report	1	0	0	0	0	0	\$0	j
D. Review equipment removal report	1	0	0	0	0	0	\$0	j
E. Review Collection and Control System Design Plan	15	3	45	45	2	5	\$2,379	d
F. Review Revised Collection and Control System Design Plan	5	0	2	2	0	0	\$79	k
G. Review Initial Performance Test	12	3	36	36	2	4	\$1,903	d
H. Review Annual Report	2	104	208	208	10	21	\$10,995	
7. Travel Expenses for Tests Attended	3 days * (\$118 hotel + \$58 meals/incidentals) + (\$600 round trip) = \$1128 per trip						\$24,139	m
<b>TOTAL BURDEN AND COST (SALARY)</b>				1,077	54	108	<b>\$96,947</b>	
<b>TOTAL ANNUAL HOURS</b>						<b>1,238</b>		

a Number of occurrences is the number of EPA Regions (10 regions). This is a one-time occurrence that is only incurred during the first year of compliance.

b Number of occurrences is based on the total number of landfills that are subject to the standard as well as the number of sources that fall below the thresholds of the standard.

c Number of occurrences is based on the assumption that EPA personnel will observe 20% of the landfills where initial performance tests and surface methane monitoring that occur. Cost to conduct surface methane monitoring includes time for monitor rental for agency as well as agency labor, which is \$764 per occurrence based on the size of the landfills expected to install controls beginning in year 2020.

d Number of occurrences is based on the estimated number of controlled landfills expected to come online or modify by 2018. This is a one-time occurrence that is only incurred during the first year of compliance.

e Number of occurrences is based on the estimated number of controlled landfills expected to come online or modify by 2018.

f Number of occurrences is based on the assumption that of the landfills that test, 10% of them will have exceedances and need enforcement.

g Assumes no controlled landfills during this ICR period will have modifications.

h No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume. Assumes no landfills will submit an amended design capacity report.

i Number of occurrences is the number of uncontrolled landfills that use Tier 1 or Tier 2 calculations for their NMOC reports.

j We have assumed that no controlled landfill will close or remove equipment during this ICR period.

k Assumes 10 percent of respondents submitting a design plan will submit a revised design plan to account for changes to the landfill or the GCCS as allowed for in 60.767(h).

l Assumes the following labor rates: \$63.52 per hour for Management labor; \$447.14 per hour for Technical labor, and \$25.50 per hour for Clerical labor. These rates are from the Office of Personnel Management (OPM), 2014 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees. These rates can be obtained from the OPM web site, <https://www.opm.gov/policy-data-oversight/pay-leave/salaries-wages/2014/general-schedule/>.

m Total cost is based on the number of trips taken by EPA to observe performance tests in year 1 (3.A. & 3.B.) multiplied by \$1128 per trip. The source for hotel and meals/incidental costs is based on FY' 15 per diem rates, averaged across all locations in the United States. Airfares are estimated based on experience from other rulemakings. See: <http://www.gsa.gov/portal/category/100120>

**Table 3.C. Annual Federal Government Burden and Cost of Recordkeeping and Reporting  
for Municipal Solid Waste Landfills - Subpart XXX - Year 3**

Burden Item	EPA hours per occurrence (A)	Number of occurrences per year (B)	EPA hours per occurrence per year (C=AxB)	Technical hours per year (D=C)	Management hours per year (E=Dx0.05)	Clerical hours per year (F=Dx0.1)	(H) Costs, \$ <sup>k</sup>	Footnotes	
1. Read and understand rule requirements	40	0	0	0	0	0	\$0	a	
2. Enter and update information into agency recordkeeping system	2	117	234	234	12	23	\$12,370	b	
3. Required activities									
A. Observe initial performance test	12	3	31	31	2	3	\$1,649	c, d	
B. Observe surface methane monitoring quarterly	20	23	468	468	23	47	\$42,617	c	
C. Review operating parameters	1	13	13	13	1	1	\$687	d	
D. Review continuous parameter monitoring	1	117	117	117	6	12	\$6,185	e	
E. Review notification of performance test	2	13	26	26	1	3	\$1,374	d	
4 Excess Emissions Enforcement Activities	24	1	0	0	0	0	\$0	f	
5 Notification requirements									
A. Review amended design capacity report	2	0	0	0	0	0	\$0	g	
6. Reporting requirements									
A. Review initial design capacity report	1	0	0	0	0	0	\$0	h	
B. Review annual NMOC emission rate report	2	12	23	23	1	2	\$1,216	i	
C. Review landfill closure report	1	0	0	0	0	0	\$0	j	
D. Review equipment removal report	1	0	0	0	0	0	\$0	j	
E. Review Collection and Control System Design Plan	15	13	195	195	10	20	\$10,308	d	
F. Review Revised Collection and Control System Design Plan	5	1	7	7	0	1	\$344	k	
G. Review Initial Performance Test	12	13	156	156	8	16	\$8,247	d	
H. Review Annual Report	2	117	234	234	12	23	\$12,370		
7. Travel Expenses for Tests Attended	3 days * (\$118 hotel + \$58 meals/incidentals) + (\$600 round trip) = \$1128 per trip							\$29,328	m
<b>TOTAL BURDEN AND COST (SALARY)</b>				1,504	75	150	<b>\$126,695</b>		
<b>TOTAL ANNUAL HOURS</b>						<b>1,729</b>			

a Number of occurrences is the number of EPA Regions (10 regions). This is a one-time occurrence that is only incurred during the first year of compliance.

b Number of occurrences is based on the total number of landfills that are subject to the standard as well as the number of sources that fall below the thresholds of the standard.

c Number of occurrences is based on the assumption that EPA personnel will observe 20% of the landfills where initial performance tests and surface methane monitoring that occur. Cost to conduct surface methane monitoring includes time for monitor rental for agency as well as agency labor, which is \$764 per occurrence based on the size of the landfills expected to install controls beginning in year 2020.

d Number of occurrences is based on the estimated number of controlled landfills expected to come online or modify by 2019. This is a one-time occurrence that is only incurred during the first year of compliance.

e Number of occurrences is based on the estimated number of controlled landfills expected to come online or modify by 2019.

f Number of occurrences is based on the assumption that of the landfills that test, 10% of them will have exceedances and need enforcement.

g Assumes no controlled landfills during this ICR period will have modifications.

h No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume. Assumes no landfills will submit an amended design capacity report.

i No additional landfills subject to this subpart are estimated to have a design capacity of less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume.

j Number of occurrences is the number of uncontrolled landfills that use Tier 1 or Tier 2 calculations for their NMOC reports.

k We have assumed that no controlled landfill will close or remove equipment during this ICR period.

k Assumes 10 percent of respondents submitting a design plan will submit a revised design plan to account for changes to the landfill or the GCCS as allowed for in 60.767(h).

l Assumes the following labor rates: \$63.52 per hour for Management labor; \$447.14 per hour for Technical labor, and \$25.50 per hour for Clerical labor. These rates are from the Office of Personnel Management (OPM), 2014 General Schedule, which excludes locality rates of pay. The rates have been increased by 60 percent to account for the benefit packages available to government employees. These rates can be obtained from the OPM web site, <https://www.opm.gov/policy-data-oversight/pay-leave/salaries-wages/2014/general-schedule/>.

m Total cost is based on the number of trips taken by EPA to observe performance tests in year 1 (3.A. & 3.B.) multiplied by \$1128 per trip. The source for hotel and meals/incidental costs is based on FY' 15 per diem rates, averaged across all locations in the United States. Airfares are estimated based on experience from other rulemakings. See: <http://www.gsa.gov/portal/category/100120>