

**SUPPORTING STATEMENT  
ENVIRONMENTAL PROTECTION AGENCY**

**NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal)**

**1. Identification of the Information Collection**

**1(a) Title of the Information Collection**

NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal),  
EPA ICR Number 1131.12, OMB Control Number 2060-0054.

**1(b) Short Characterization/Abstract**

The New Source Performance Standards (NSPS) for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) were proposed on June 15, 1979, promulgated on October 7, 1980, and amended on both October 19, 1984 and October 17, 2000. These regulations apply to both existing and new glass melting furnaces located at glass manufacturing plants. New facilities include those that commenced construction, modification, or reconstruction after the date of proposal. This information is being collected to assure compliance with 40 CFR Part 60, Subpart CC.

In general, all NSPS standards require initial notifications, performance tests, and periodic reports by the owners/operators of the affected facilities. They are also required to maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, or any period during which the monitoring system is inoperative. These notifications, reports, and records are essential in determining compliance, and are required of all affected facilities subject to NSPS.

Any owner/operator subject to the provisions of this part shall maintain a file containing these documents, and retain the file for at least two years following the generation date of such maintenance reports and records. All reports are sent to the delegated state or local authority. In the event there is no such delegated authority, the reports are sent directly to the U.S. Environmental Protection Agency (EPA) regional office.

All the glass manufacturing facilities are owned and operated by the glass manufacturing industry (aka: the "Affected Public"). None of these facilities in the United States are owned by either state, local, tribal or the Federal government. They are all owned and operated by privately-owned, for-profit businesses. We assume that they will all respond to EPA inquiries. The "burden" to the Affected Public may be found below in Table 1: Annual Respondent Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal). The "burden" to the Federal Government is attributed entirely to work performed by either Federal employees or government contractors. This burden may be found below in Table 2: Average Annual EPA Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC).

Over the next three years, approximately 41 respondents per year will be subject to these

standards, and no additional respondents per year will become subject to these same standards.

The active (previous) ICR had the following Terms of Clearance (TOC):

In accordance with 5 CFR 1320, the information collection is approved for three years.

EPA has addressed each item of concern in the TOC by renewing this ICR at the end of the three-year approval period.

## **2. Need for and Use of the Collection**

### **2(a) Need/Authority for the Collection**

The EPA is charged under Section 111 of the Clean Air Act (CAA), as amended, to establish standards of performance for new stationary sources that reflect:

. . . application of the best technological system of continuous emissions reduction which (taking into consideration the cost of achieving such emissions reduction, or any non-air quality health and environmental impact and energy requirements) the Administrator determines has been adequately demonstrated. Section 111(a)(1).

The Agency refers to this charge as selecting the best demonstrated technology (BDT). Section 111 also requires that the Administrator review and, if appropriate, revise such standards every eight years.

In addition, section 114(a) states that the Administrator may require any owner/operator subject to any requirement of this Act to:

(A) Establish and maintain such records; (B) make such reports; (C) install, use, and maintain such monitoring equipment, and use such audit procedures, or methods; (D) sample such emissions (in accordance with such procedures or methods, at such locations, at such intervals, during such periods, and in such manner as the Administrator shall prescribe); (E) keep records on control equipment parameters, production variables or other indirect data when direct monitoring of emissions is impractical; (F) submit compliance certifications in accordance with Section 114(a)(3); and (G) provide such other information as the Administrator may reasonably require.

In the Administrator's judgment, particulate matter emissions from glass melting furnaces

either cause or contribute to air pollution that may reasonably be anticipated to endanger public health and/or welfare. Therefore, the NSPS were promulgated for this source category at 40 CFR Part 60, Subpart CC.

### **2(b) Practical Utility/Users of the Data**

The recordkeeping and reporting requirements in these standards ensure compliance with the applicable regulations which were promulgated in accordance with the Clean Air Act. The collected information is also used for targeting inspections and as evidence in legal proceedings.

Performance tests are required to determine an affected facility's initial capability to comply with the emission standards. Continuous emission monitors are used to ensure compliance with these same standards at all times. During the performance test a record of the operating parameters, under which compliance was achieved, may be recorded and used to determine compliance in place of a continuous emission monitor.

The notifications required in these standards are used to inform either the Agency or delegated authority when a source becomes subject to the requirements of the regulations. The reviewing authority may then inspect the source to check if the pollution control devices are properly installed and operated, leaks are being detected and repaired and that the standards are being met. The performance test may also be observed.

The required semiannual reports are used to determine periods of excess emissions, identify problems at the facility, verify operation/maintenance procedures and for compliance determinations.

### **3. Non-duplication, Consultations, and Other Collection Criteria**

The requested recordkeeping and reporting are required under 40 CFR Part 60, Subpart CC.

#### **3(a) Non-duplication**

If the subject standards have not been delegated, the information is sent directly to the appropriate EPA regional office. Otherwise, the information is sent directly to either the delegated state or local agency. If a state or local agency has adopted its own similar method to implement the Federal standards, a copy of the report submitted to the state or local agency can be sent to the Administrator in lieu of the report required by the Federal standards. Therefore, duplication does not exist.

#### **3(b) Public Notice Required Prior to ICR Submission to OMB**

An announcement of a public comment period for the renewal of this ICR was published in the Federal Register (82 FR 29552) on June 29, 2017. No comments were received on the

burden published in the Federal Register.

### **3(c) Consultations**

The Agency has consulted industry experts and internal data sources to project the number of affected facilities and industry growth over the next three years. The primary source of information as reported by industry, in compliance with the recordkeeping and reporting provisions in these standards, is the Integrated Compliance Information System (ICIS). ICIS is EPA's database for the collection, maintenance, and retrieval of compliance data for industrial and government-owned facilities. The growth rate for the industry is based on our consultations with the Agency's internal industry experts.

Industry trade association(s) and other interested parties were provided an opportunity to comment on the burden associated with these standards as they were being developed and these same standards have been reviewed previously to determine the minimum information needed for compliance purposes. In developing this ICR, we contacted both: 1) the National Glass Association (NGA), at (703) 442-4890; and 2) the Glass Manufacturing Industry Council (GMIC), at (614) 523-3033.

It is our policy to respond after a thorough review of comments received since the last ICR renewal, as well as to those submitted in response to the first Federal Register notice. In this case, no comments were received.

### **3(d) Effects of Less-Frequent Collection**

Less-frequent information collection would decrease the margin of assurance that facilities are continuing to meet these standards. Requirements for information gathering and recordkeeping are useful techniques to ensure that good operation and maintenance practices are applied and emission limitations are met. If the information required by these standards was collected less-frequently, the proper operation and maintenance of control equipment and the possibility of detecting violations would be less likely.

### **3(e) General Guidelines**

These reporting or recordkeeping requirements do not violate any of the regulations promulgated by OMB under 5 CFR Part 1320, Section 1320.5.

### **3(f) Confidentiality**

Any information submitted to the Agency for which a claim of confidentiality is made will be safeguarded according to the Agency policies set forth in Title 40, chapter 1, part 2, subpart B - Confidentiality of Business Information (CBI) (see 40 CFR 2; 41 FR 36902, September 1, 1976; amended by 43 FR 40000, September 8, 1978; 43 FR 42251, September 20, 1978; 44 FR 17674, March 23, 1979).

### 3(g) Sensitive Questions

The reporting or recordkeeping requirements in the standard do not include sensitive questions.

## 4. The Respondents and the Information Requested

### 4(a) Respondents/SIC Codes

The respondents to the recordkeeping and reporting requirements are glass melting furnaces located at a glass manufacturing plants. The United States Standard Industrial Classification (SIC) codes for the respondents affected by the standard and the corresponding North American Industry Classification System (NAICS) codes are listed below.

Standard (40 CFR Part 60, Subpart CC)	SIC Codes	NAICS Codes
Flat Glass Manufacturing	3211	327211
Glass Container Manufacturing	3221	327213
Other Pressed and Blown Glass and Glassware Manufacturing	3229	327212
Mineral Wool Manufacturing	3296	327993

### 4(b) Information Requested

#### (i) Data Items

In this ICR, all the data that is recorded or reported is required by the NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC).

A source must make the following reports:

Notifications/Reports	
Notification of construction/reconstruction	60.7(a)(1)
Notification of actual startup.	60.7(a)(3)
Notification of initial performance test	60.8(d)
Initial performance test results	60.8(a)
Demonstration of continuous monitoring system (CMS)	60.7(a)(5)
Notification of physical or operational change	60.6(a)(4)
Routine maintenance report	60.292(e)(3)
Request for alternative CMS	60.293(d)

<b>Notifications/Reports</b>	
Excess emissions report	60.7(c), 60.293(c)(5)

A source must keep the following records:

<b>Recordkeeping</b>	
Startup, shutdown, malfunction periods where the CMS is inoperative	60.7(b)
Records are required to be retained for two years	60.7(f)

### Electronic Reporting

Some of the respondents are using monitoring equipment that automatically records parameter data. Although personnel at the affected facility must still evaluate the data, internal automation has significantly reduced the burden associated with monitoring and recordkeeping at a plant site.

### **(ii) Respondent Activities**

<b>Respondent Activities</b>
Familiarization with the regulatory requirements.
Install, calibrate, maintain, and operate CMS for opacity, or for pressure drop and liquid supply pressure for control device.
Perform initial performance test, Reference Method 5 and 9 tests, and repeat performance tests if necessary.
Write the notifications and reports listed above.
Enter information required to be recorded above.
Submit the required reports developing, acquiring, installing, and utilizing technology and systems for the purpose of collecting, validating, and verifying information.
Develop, acquire, install, and utilize technology and systems for the purpose of processing and maintaining information.
Develop, acquire, install, and utilize technology and systems for the purpose of disclosing and providing information.
Train personnel to be able to respond to a collection of information.

<b>Respondent Activities</b>
Transmit, or otherwise disclose the information.

## **5. The Information Collected: Agency Activities, Collection Methodology, and Information Management**

### **5(a) Agency Activities**

EPA conducts the following activities in connection with the acquisition, analysis, storage, and distribution of the required information.

<b>Agency Activities</b>
Review notifications and reports, including performance test reports, and excess emissions reports, required to be submitted by industry.
Audit facility records.
Input, analyze, and maintain data in the Enforcement and Compliance History Online (ECHO) and ICIS.

### **5(b) Collection Methodology and Management**

Following notification of startup, the reviewing authority could inspect the source to determine whether the pollution control devices are properly installed and operated. Performance test reports are used by the Agency to discern a source's initial capability to comply with the emission standards and note the operating conditions under which compliance was achieved. Data and records maintained by the respondents are tabulated and published for use in compliance and enforcement programs. The semiannual reports are used for problem identification, as a check on source operation and maintenance, and for compliance determinations.

Information contained in the reports is reported by state and local governments in the ICIS Air database, which is operated and maintained by EPA's Office of Compliance. ICIS is EPA's database for the collection, maintenance, and retrieval of compliance data for industrial and government-owned facilities. EPA uses ICIS for tracking air pollution compliance and enforcement by local and state regulatory agencies, EPA regional offices and EPA headquarters. EPA and its delegated Authorities can edit, store, retrieve and analyze the data.

The records required by this regulation must be retained by the owner/operator for two years.

### **5(c) Small Entity Flexibility**

There are no small entities (i.e., small businesses) affected by this regulation. However, the impact on small entities (i.e., small businesses) was taken into consideration during the development of the regulation. Due to technical considerations involving the process operations and the types of control equipment employed, the recordkeeping and reporting requirements are the same for both small and large entities. The Agency considers these to be the minimum requirements needed to ensure compliance and, therefore, cannot reduce them further for small entities. To the extent that larger businesses can use economies of scale to reduce their burden, the overall burden will be reduced.

#### **5(d) Collection Schedule**

The specific frequency for each information collection activity within this request is shown below in Table 1: Annual Respondent Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal).

### **6. Estimating the Burden and Cost of the Collection**

Table 1 documents the computation of individual burdens for the recordkeeping and reporting requirements applicable to the industry for the subpart included in this ICR. The individual burdens are expressed under standardized headings believed to be consistent with the concept of burden under the Paperwork Reduction Act. Where appropriate, specific tasks and major assumptions have been identified. Responses to this information collection are mandatory.

The Agency may neither conduct nor sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number.

#### **6(a) Estimating Respondent Burden**

The average annual burden to industry over the next three years from these recordkeeping and reporting requirements is estimated to be 850 hours (Total Labor Hours from Table 1 below). These hours are based on Agency studies and background documents from the development of these regulations, Agency knowledge and experience with the NSPS program, the previously-approved ICR, and any comments received.

#### **6(b) Estimating Respondent Costs**

##### **(i) Estimating Labor Costs**

This ICR uses the following labor rates:

Managerial	\$144.33 (\$68.73+ 110%)
Technical	\$108.28 (\$51.56 + 110%)
Clerical	\$53.34 (\$25.40 + 110%)



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

### (ii) Estimating Capital/Startup and Operation and Maintenance Costs

The type of industry costs associated with the information collection activities in the subject standards are both labor costs, which are addressed elsewhere in this ICR, and the costs associated with continuous monitoring. The capital/startup costs are one-time costs when a facility becomes subject to these regulations. The annual operation and maintenance costs are the ongoing costs to maintain the monitor and other costs such as photocopying and postage.

### (iii) Capital/Startup vs. Operation and Maintenance (O&M) Costs

<b>Capital/Startup vs. Operation and Maintenance (O&amp;M) Costs</b>						
(A) Continuous Monitoring Device	(B) Capital/Startup Cost for One Respondent	(C) Number of New Respondents	(D) Total Capital/Startup Cost, (B X C)	(E) Annual O&M Costs for One Respondent	(F) Number of Respondents with O&M	(G) Total O&M, (E X F)
Continuous Opacity Monitors	\$15,000	0	0	\$5,800	41	\$237,800
<b>Total (Rounded)</b>						<b>\$238,000</b>

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

The total capital/startup costs for this ICR are \$0. This is the total of column D in the above table.

The total operation and maintenance (O&M) costs for this ICR are \$238,000 (rounded). This is the total of column G.

The average annual cost for capital/startup and operation and maintenance costs to industry over the next three years of the ICR is estimated to be \$238,000. These are the recordkeeping costs.

### 6(c) Estimating Agency Burden and Cost

The only costs to the Agency are those costs associated with analysis of the reported information. EPA's overall compliance and enforcement program includes such activities as the examination of records maintained by the respondents, periodic inspection of sources of

emissions, and the publication and distribution of collected information.

The average annual Agency cost during the three years of the ICR is estimated to be \$20,000.

This cost is based on the average hourly labor rate as follows:

Managerial	\$64.80 (GS-13, Step 5, \$40.50 + 60%)
Technical	\$48.08 (GS-12, Step 1, \$30.05 + 60%)
Clerical	\$26.02 (GS-6, Step 3, \$16.26 + 60%)

These rates are from the Office of Personnel Management (OPM), 2017 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. Details upon which this estimate is based appear below in Table 2: Average Annual EPA Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal).

#### 6(d) Estimating the Respondent Universe and Total Burden and Costs

Based on our research for this ICR, on average over the next three years, approximately 41 existing respondents will be subject to these standards. It is estimated that no additional respondents per year will become subject to these same standards. The overall average number of respondents, as shown in the table below, is 41 per year.

The number of respondents is calculated using the following table that addresses the three years covered by this ICR:

Number of Respondents					
	Respondents That Submit Reports		Respondents That Do Not Submit Any Reports		
Year	(A) Number of New Respondents <sup>1</sup>	(B) Number of Existing Respondents	(C) Number of Existing Respondents that keep records but do not submit reports	(D) Number of Existing Respondents That Are Also New Respondents	(E) Number of Respondents (E=A+B+C-D)
1	0	41	0	0	41
2	0	41	0	0	41
3	0	41	0	0	41
Average	0	41	0	0	41

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

Column D is subtracted to avoid double-counting respondents. As shown above, the average Number of Respondents over the three-year period of this ICR is 41.

The total number of annual responses per year is calculated using the following table:

<b>Total Annual Responses</b>				
(A) Information Collection Activity	(B) Number of Respondents	(C) Number of Responses	(D) Number of Existing Respondents That Keep Records But Do Not Submit Reports	(E) Total Annual Responses $E=(B \times C)+D$
Notification of construction/reconstruction or modification	0	1	0	0
Notification of actual startup	0	1	0	0
Notification of demonstration of CMS	0	1	0	0
Notification of physical or operation change	0	1	0	0
Notification of initial performance test	0	1	0	0
Request for alternative CMS	0	1	0	0
Routine maintenance report	21	1	0	21
Semiannual report of excess emission	41	2	0	82
<b>Total Number of Annual Responses</b>				<b>103</b>

Note: We have assumed that 50 percent of respondents will submit routine maintenance reports.

The number of Total Annual Responses is 103.

The total annual labor costs are \$89,300. Details regarding these estimates may be found below in Table 1: Annual Respondent Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal).

### **6(e) Bottom Line Burden Hours and Cost Tables**

The detailed bottom line burden hours and cost calculations for the respondents and the Agency are shown in Tables 1 and 2 below, respectively, and summarized below.

#### **(i) Respondent Tally**

The total annual labor hours are 850 hours. Details regarding these estimates may be found below in Table 1. Annual Respondent Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal).

We assume that burdens for managerial tasks take 5% of the time required for technical tasks because the typical tasks for managers are to review and approve reports. Clerical burdens are assumed to take 10% of the time required for technical tasks because the typical duties of

clerical staff are to proofread the reports, make copies and maintain records.

Furthermore, the annual public reporting and recordkeeping burden for this collection of information is estimated to average 8 hours per response.

The total annual capital/startup and O&M costs to the regulated entity are \$238,000. The cost calculations are detailed in Section 6(b)(iii), Capital/Startup vs. Operation and Maintenance (O&M) Costs.

### **(ii) The Agency Tally**

The average annual Agency burden and cost over next three years is estimated to be 426 labor hours at a cost of \$20,000; see below in Table 2: Average Annual EPA Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal).

We assume that burdens for managerial tasks take 5% of the time required for technical tasks because the typical tasks for managers are to review and approve reports. Clerical burdens are assumed to take 10% of the time required for technical tasks because the typical duties of clerical staff are to proofread the reports, make copies and maintain records.

### **6(f) Reasons for Change in Burden**

There is no change in the labor hours or cost in this ICR compared to the previous ICR. This is due to two considerations: 1) the regulations have not changed over the past three years and are not anticipated to change over the next three years; and 2) the growth rate for the industry is very low, negative or non-existent, so there is no significant change in the overall burden. However, the calculation of labor costs has been updated to use more recent labor rates.

### **6(g) Burden Statement**

The annual public reporting and recordkeeping burden for this collection of information is estimated to average 8 hours per response. “Burden” means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information.

An agency may neither conduct nor sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB Control Number. The OMB Control Numbers for EPA regulations are listed at 40 CFR Part 9 and 48 CFR Chapter 15.

To comment on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques, EPA has established a public docket for this ICR under Docket ID Number EPA-HQ-OECA-2014-0041. An electronic version of the public docket is available at <http://www.regulations.gov/>, which may be used to obtain a copy of the draft collection of information, submit or view public comments, access the index listing of the contents of the docket, and to access those documents in the public docket that are available electronically. When in the system, select "search," then key in the docket ID number identified in this document. The documents are also available for public viewing at the Enforcement and Compliance Docket and Information Center in the EPA Docket Center (EPA/DC), WJC West, Room 3334, 1301 Constitution Ave., NW, Washington, DC. The EPA Docket Center Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Reading Room is (202) 566-1744, and the telephone number for the docket center is (202) 566-1752. Also, you can send comments to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, NW, Washington, DC 20503, Attention: Desk Officer for EPA. Please include the EPA Docket ID Number EPA-HQ-OECA-2014-0041 and OMB Control Number 2060-0054 in any correspondence.

### **Part B of the Supporting Statement**

This part is not applicable because no statistical methods were used in collecting this information.

**Table 1: Annual Respondent Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal)**

Burden item	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	Person hours per occurrence	No. of occurrences per respondent per year	Person hours per respondent per year (C=AxB)	Respondents per year <sup>a</sup>	Technical person-hours per year (E=CxD)	Management person hours per year (F=Ex0.05)	Clerical person hours per year (G=Ex0.1)	Total Cost per year <sup>b</sup>
1. Applications	N/A							
2. Survey and Studies	N/A							
3. Reporting Requirements								
A. Familiarization with rule requirements <sup>c</sup>	1	1	1	41	41	2.05	4.1	\$4,954.05
B. Required Activities								
Initial performance test <sup>d</sup>	160	1	160	0	0	0	0	\$0
Repeat of performance test <sup>e</sup>	160	0.2	32	0	0	0	0	\$0
C. Create Information	See 3B							
D. Gather existing information	See 3B							
E. Write report								
Notification of construction/reconstruction or modification	2	1	2	0	0	0	0	\$0
Notification of actual startup <sup>f</sup>	2	1	2	0	0	0	0	\$0
Notification of demonstration of CMS	2	1	2	0	0	0	0	\$0
Notification of physical or operation change <sup>g</sup>	2	1	2	0	0	0	0	\$0
Notification of initial performance test	2	1	2	0	0	0	0	\$0
Performance test report	See 3B							
Demonstration of CMS	See 3B							

Request for alternative CMS	4	1	4	0	0	0	0	\$0
Routine maintenance report <sup>h</sup>	2	1	2	21	42	2.1	4.2	\$5,074.88
Semiannual report	8	2	16	41	656	32.8	65.6	\$79,264.81
<b>Subtotal for Reporting Requirements</b>						<b>850</b>		<b>\$89,294</b>
4. Recordkeeping requirements								
A. Familiarization with rule requirements	See 3A							
B. Plan activities	See 3B							
C. Implement activities	See 3B							
D. Develop record system	N/A							
E. Time to enter information	See 3E							
F. Train personnel	N/A							
G. Audits	N/A							
<b>Subtotal for Recordkeeping Requirements</b>						<b>0</b>		<b>\$0</b>
<b>TOTAL LABOR BURDEN AND COST (rounded) <sup>i</sup></b>						<b>850</b>		<b>\$89,300</b>
<b>TOTAL CAPITAL AND O&amp;M COST (rounded) <sup>i</sup></b>								<b>\$238,000</b>
<b>GRAND TOTAL (rounded) <sup>i</sup></b>								<b>\$327,000</b>

**Assumptions:**

<sup>a</sup> We have assumed that the number of existing respondents is 41, and that no additional new sources will become subject to the rule over the three-year period of this ICR.

<sup>b</sup> This ICR uses the following labor rates: \$144.33 per hour for Executive, Administrative, and Managerial labor; \$108.28 per hour for Technical labor, and \$53.34 per hour for Clerical labor. 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 been increased by 110 percent to account for the benefit packages available to those employed by private industry.

<sup>c</sup> We have assumed that it will take one hour for all existing respondents to familiarize with regulatory requirements.

<sup>d</sup> We have assumed that it will take 160 hours to complete a performance test.

<sup>e</sup> We have assumed that 20 percent will fail the performance tests.

<sup>f</sup> We have assumed that it will take two hours to write notification of actual startup report.

<sup>g</sup> We have assumed that it will take two hours to write notification report of physical or operation change.

<sup>h</sup> We have assumed that 50 percent of respondents will submit routine maintenance reports.

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



**Table 2: Average Annual EPA Burden and Cost – NSPS for Glass Manufacturing Plants (40 CFR Part 60, Subpart CC) (Renewal)**

Activity	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	EPA person-hours per occurrence	No. of occurrences per plant per year	EPA person hours per plant per year (C=AxB)	Plants per year <sup>a</sup>	Technical person-hours per year (E=CxD)	Management person-hours per year (F=E <sub>x</sub> 0.05)	Clerical person-hours per year (G=E <sub>x</sub> 0.1)	Cost, \$ <sup>b</sup>
Initial performance tests								
New or modified facility <sup>c</sup>	40	1	40	0	0	0	0	\$0
Repeat performance test								
New or modified facility <sup>c, d</sup>	40	0.2	8	0	0	0	0	\$0
Report review								
New or Modified Facility								
Modification of construction/reconstruction or modification <sup>e</sup>	2	1	2	0	0	0	0	\$0
Notification of actual startup <sup>f</sup>	0.5	1	0.5	0	0	0	0	\$0
Notification of demonstration of CMS <sup>f</sup>	0.5	1	0.5	0	0	0	0	\$0
Notification of physical or operational change <sup>f</sup>	0.5	1	0.5	0	0	0	0	\$0
Notification of initial performance test <sup>f</sup>	0.5	1.2	0.6	0	0	0	0	\$0
Review of performance test results <sup>g</sup>	8	1.2	9.6	0	0	0	0	\$0
Review demonstration of CMS	See "Review of performance test results"							
Review request for alternative CMS	4	1	4	0	0	0	0	\$0
Review of routine maintenance report <sup>h</sup>	2	1	2	21	42	2.1	4.2	\$2,264.72
Review of semiannual reports	4	2	8	41	328	16.4	32.8	\$17,686.42
<b>TOTAL LABOR BURDEN AND COST (rounded) <sup>i</sup></b>						<b>426</b>		<b>\$20,000</b>

**Assumptions:**

- <sup>a</sup> We have assumed that the average number of existing respondents is 41, and that no additional new sources will become subject to the rule over the three-year period of this ICR.
- <sup>b</sup> This cost is based on the following hourly labor rates times a 1.6 benefits multiplication factor to account for government overhead expenses: \$64.80 for Managerial, \$48.08 for Technical, and \$26.02 for Clerical. These rates are from the Office of Personnel Management (OPM) “2017 General Schedule” which excludes locality rates of pay.
- <sup>c</sup> We have assumed that it will take 40 hours to participate with the performance tests.
- <sup>d</sup> We have assumed that 20 percent of respondents will repeat performance tests because of failure.
- <sup>e</sup> We have assumed that it will take two hours to review construction report.
- <sup>f</sup> It will take each respondent 0.5 hours to review actual startup report, CMS report, physical or operational change report, and initial performance test report.
- <sup>g</sup> We have assumed that it will take eight hours to review performance test results.
- <sup>h</sup> We have assumed that 50 percent of respondents will submit routine maintenance reports.
- <sup>i</sup> Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.