## SUPPORTING STATEMENT FOR THE INFORMATION COLLECTION REQUIREMENTS OF THE STANDARD ON PORTABLE FIRE EXTINGUISHERS (ANNUAL MAINTENANCE CERTIFICATION RECORD) (29 CFR 1910.157(e)(3))<sup>1</sup> OFFICE OF MANAGEMENT AND BUDGET (OMB) CONTROL NO. 1218-0238 (June 2017)

### A. JUSTIFICATION

**1.** Explain the circumstances that make the collection of information necessary. Identify any legal or administrative requirements that necessitate the collection. Attach a copy of the appropriate section of each statute and regulation mandating or authorizing the collection of information.

The main objective of the Occupational Safety and Health Act of 1970 (i.e., "the Act") is to "assure so far as possible every working man and woman in the Nation safe and healthful working conditions and to preserve our human resources" (29 U.S.C. 651). To achieve this objective, the Act authorizes "the development and promulgation of occupational safety and health standards" (29 U.S.C. 651).

With regard to recordkeeping, the Act specifies that "[e]ach employer shall make, keep and preserve, and make available to the Secretary . . . such records . . . as the Secretary . . . may prescribe by regulation as necessary or appropriate for the enforcement of this Act . . ." (29 U.S.C. 657). The Act states further that "[t]he Secretary . . . shall prescribe such rules and regulations as [he/she] may deem necessary to carry out [his/her] responsibilities under this Act, including rules and regulations dealing with the inspection of an employer's establishment" (29 U.S.C. 657).

Under the authority granted by the Act, the Occupational Safety and Health Administration (i.e., "OSHA" or "the Agency") published at 29 CFR 1910.157 a safety standard for general industry regulating portable fire extinguishers (i.e., "the Standard"). Paragraph (e)(3) of the Standard requires employers to: Inspect portable fire extinguishers annually for normal operation; record the maintenance date; retain the maintenance record for one year after the last entry or for the life of the shell, whichever is less; and make the record available to an OSHA compliance officer upon request. The annual maintenance inspection ensures that portable fire extinguishers are in

**<sup>1</sup>**The purpose of this Supporting Statement is to analyze and describe the burden hours and costs associated with the hydrostatic testing provision of the Standard on Portable Fire Extinguishers; this Supporting Statement does not provide information or guidance on how to comply with, or how to enforce, the Standard.

safe operating condition in case of a fire, while the maintenance record provides evidence to workers and Agency compliance officers that employers performed the required inspections.

2. Indicate how, by whom, and for what purpose the information is to be used. Except for a new collection, indicate the actual use the Agency has made of the information received from the current collection.

The purpose of this requirement is to reduce workers' risk of death or serious injury by ensuring that portable fire extinguishers are in safe operating condition.

## §1910.157(e)(3)--Portable Fire Extinguishers--Inspection, maintenance, and testing.

Paragraph (e)(3) of the Standard specifies that employers must subject each portable fire extinguisher to an annual maintenance inspection and record the date of the inspection. In addition, this provision requires employers to retain the inspection record for one year after the last entry or for the life of the shell, whichever is less, and to make the record available to OSHA on request. This recordkeeping requirement assures workers and Agency compliance officers that portable fire extinguishers located in the workplace will operate normally in case of fire; in addition, this requirement provides evidence to OSHA compliance officers during an inspection that the employer performed the required maintenance checks on the portable fire extinguishers.

3. Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses, and the basis for the decision for adopting this means of collection. Also describe any consideration of using information technology to reduce burden.

Employers may use automated, electronic, mechanical, or other technological information collection techniques, or other forms of information technology (e.g., electronic submission of responses) when establishing and maintaining the required records. The Agency wrote the paperwork requirements of the provision in performance-oriented language (i.e., in terms of <u>what</u> data to collect, not <u>how</u> to record the data).

# 4. Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purpose(s) described in A.2 above.

The requirement to collect and maintain information is specific to each employer and worker involved, and no other source or agency duplicates the requirement or can make the required information available to OSHA (i.e., the required information is available only from employers).

5. If the collection of information impacts small businesses or other small entities, describe the methods used to reduce the burden.

The information collection requirement specified by the provision does not have a significant impact on a substantial number of small entities.

# 6. Describe the consequence to Federal program or policy activities if the collection is or is not conducted less frequently, and any technical or legal obstacles to reducing the burden.

The Agency believes that the information collection frequency required by the provision is the minimum frequency necessary to fulfill its mandate "to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources" as specified in the Act at 29 U.S.C. 651. Accordingly, if employers do not perform the required information collection, or delay in providing this information, workers may inadvertently attempt to operate fire extinguishers that are not in proper working order; thus increasing their risk of death or serious injury.

7. Explain any special circumstances that would cause an information collection to be conducted in a manner:

- · Requiring respondents to report information to the agency more often than quarterly;
- Requiring respondents to prepare a written response to a collection of information in fewer than 30 days after receipt of it;
- Requiring respondents to submit more than an original and two copies of any document;
- Requiring respondents to retain records, other than health, medical, government contract, grant-inaid, or tax records for more than three years;
- In connection with a statistical survey that is not designed to produce valid and reliable results that can be generalized to the universe of study;
- Requiring the use of statistical data classification that has not been reviewed and approved by OMB;
- That includes a pledge of confidentially that is not supported by authority established in statute or regulation that is not supported by disclosure and data security policies that are consistent with the pledge, or which unnecessarily impedes sharing of data with other agencies for compatible confidential use; or
- Requiring respondents to submit proprietary trade secret, or other confidential information unless the agency can prove that it has instituted procedures to protect the information's confidentially to the extent permitted by law.

This information request is consistent with the guidelines provided in 5 CFR 1320.5.

8. If applicable, provide a copy and identify the date and page number of publication in the *Federal Register* of the agency's notice, required by 5 CFR 1320.8(d), soliciting comments on the information collection

before submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the agency in response to those comments specifically address comments received on cost and hour burdens.

Describe efforts to consult with persons outside the agency to obtain their views on the availability of data, frequency of collection, the clarity of instructions and recordkeeping, disclosure, or reporting format (if any), and on the data elements to be recorded, revealed, or reported.

Consultation with representatives of those from whom information is to be obtained or those who must compile records should occur at least once every three years -- even if the collection of information activity is the same as in prior periods. There may be circumstances that mitigate against consultation in a specific situation. These circumstances should be explained.

As required by the Paperwork Reduction Act of 1995 (44 U.S.C. 3506(c)(2)(A)), OSHA published a notice in the <u>Federal Register</u> April 24, 2017 (FR 82 18930) soliciting comments on its proposal to extend the Office of Management and Budget's approval of the extension of the information collection requirement contained in the Standard on Portable Fire Extinguishers (Annual Maintenance Certification Record) (29 CFR 1910.157(e)(3)). This notice was part of a preclearance consultation program that provided the general Public and government agencies with an opportunity to comment. The Agency did not receive any comments in response to this notice.

# 9. Explain any decision to provide any payments or gift to respondents, other than reenumeration of contractors or grantees.

The Agency will <u>not</u> provide payments or gifts to the respondents.

**10.** Describe any assurance of confidentiality provided to respondents and the basis for the assurance in statute, regulation, or agency policy.

The paperwork requirements specified by the provision do not involve confidential information.

11. Provide additional justification for any questions of a sensitive nature, such as sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private. This justification should include the reasons why the agency considers the questions necessary, the specific uses to be made of the information, the explanation to be given to persons from whom the information is requested, and any steps to be taken to obtain their consent.

The provision does not involve collection of sensitive information.

12. Provide estimates of the hour burden of the collection of information. The statement should:

• Indicate the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated. Unless directed to do so, agencies should not conduct special surveys to obtain information on which to base hour burden estimates. Consultation with a sample

(fewer than 10) of potential respondents is desirable. If the hour burden on respondents is expected to vary widely because of differences in activity, size, or complexity, show the range of estimated hour burden, and explain the reasons for the variance. Generally, estimates should not include burden hours for customary and usual business practices.

- If this request for approval covers more than one form, provide separate hour burden estimates for each form and aggregate the hour burdens.
- Provide estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage-rate categories. The cost of contracting out or paying outside parties for information collection activities should not be included here. Instead, this cost should be included in Item 13.

#### **Respondent Burden-Hour and Cost Burden Determinations**

The Agency determined average wage rates from mean hourly wage earnings to represent the cost of employee time. For the relevant occupational category, OSHA adjusted the earnings according to the *Occupational Employment Statistics, Occupational Employment and Wages, May 2016*, Bureau of Labor Statistics, U.S. Department of Labor. To account for fringe benefits, the Agency used the benefit rate reported in the *Economic News Release June 2017, Employer Costs for Employee Compensation –March 2017*, Bureau of Labor Statistics, U.S. Department of Labor https://www.bls.gov/news.release/ecec.nr0.htm. BLS reported that for private industry, fringe benefits accounted for 31.7 percent of total compensation and wages accounted for the remaining 68.3 percent. To calculate the loaded hourly wage for each occupation, thus the Agency divided the mean hourly wage by 68.3 percent.

Precision Instrument and Equipment Repairer: (OES 49-9069) \$27.20/.683 = \$39.82<sup>2</sup>

Using Field's Fire Protection manual, the Agency estimates that there is, on average, one portable fire extinguisher for every 11,250 square feet of building space. Based on that, OSHA estimates in Table 1 that there are 39,132,742 fire extinguishers in service in the United States.

Table 1 was derived from Tables 2 and 3. As demonstrated in Table 2, the Agency estimates that there are 37,917,943 extinguishers in non-manufacturing establishments, based on the Commercial Building Energy Consumption Survey. OSHA estimates that there are an additional 1,214,799 extinguishers, as shown in Table 3, in manufacturing establishments, based on information from the U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics. These two numbers were derived by multiplying the average square

<sup>2</sup> Source: https://www.bls.gov/oes/current/oes499069.htm

foot per building (for each type of building), as reported by the aforementioned surveys, times the estimated 11,250sq.ft. per extinguisher estimate, to determine the total number of fire extinguishers present, on average, per building. That number is multiplied by the total number of buildings (for non-manufacturing), or the total number of establishments (for manufacturing), to determine the total number of portable fire extinguishers needed for each sector.

# §1910.157(e)(3) -- Portable Fire Extinguishers -- Inspection, maintenance, and testing.

OSHA believes that a large number of establishments will subject their fire extinguishers to the annual maintenance inspection as a usual and customary business practice to meet local fire codes and/or to reduce fire insurance premiums. Based on past information from a senior fire prevention engineer, it was estimated that approximately 85 percent of the (39,132,742) portable fire extinguishers (33,262,831) will undergo the annual maintenance inspection as a usual and customary business practice. Therefore, OSHA is not including these inspections and associated records in determining the burden hours and cost of the information collection requirement specified by paragraph (e)(3) of the Standard. Based on this determination, this burden hour estimate only covers the remaining15 percent (i.e., 5,869,911) portable fire extinguishers.

Past discussions by the Agency with a leading fire extinguisher servicing company indicate that they collect and test, under contract, about 90 percent of the 5,869,911- portable fire extinguishers (i.e.,5,282,920) covered by 29 CFR 1910.157(e)(3). Accordingly, employers perform their own inspections and recordkeeping on the remaining 10 percent 586,991 of these extinguishers.

For employers who perform their own inspections, OSHA estimates that an inspector will take approximately 30 minutes (.50 hour) to perform and record the required maintenance inspection on each portable fire extinguisher (this estimate is based on information from staff familiar with the inspection testing). The inspector typically records the inspection date on a readily-visible tag attached to the extinguisher; therefore, disclosure of the recorded information to OSHA compliance officers imposes no burden on employers. The estimated burden hours and cost associated with performing and recording the required maintenance inspections are:

<b>Burden hours</b> :	586,991 fire extinguishers x .50 hour = 293,496
Cost:	293,496 hours x \$39.82= \$11,687,011

Collections of Information	No. of Respondents	Frequency Per Response	Total No. of Responses	Burden Per Response (In Hours)	Total Burden Hours	Hourly Wage Rate	Total Burden cost
§1910.157(e) (3) Portable Fire Extinguishers Inspection, maintenance, and testing.	5,869,911	0.1	586,991	0.5	293,496	\$39.82	\$11,687,011
TOTAL			586,991		293,496		\$11,687,011

#### Table 1 -- Total Information Collection Burdens.

13. Provide an estimate of the total annual cost burden to respondents or recordkeepers resulting from the collection of information. (Do not include the cost of any hour burden shown in Items 12 and 14.)

- The cost estimate should be split into two components: (a) a total capital and start-up cost component annualized over its expected useful life); and (b) a total operation and maintenance and purchase of service component. The estimates should take into account costs associated with generating, maintaining, and disclosing or providing the information. Include descriptions of methods used to estimate major cost factors including system and technology acquisition, expected useful life of capital equipment, the discount rate(s), and the time period over which costs will be incurred. Capital and start-up costs include, among other items, preparations for collecting information such as purchasing computers and software; monitoring, sampling, drilling and testing equipment; and record storage facilities.
- If cost estimates are expected to vary widely, agencies should present ranges of cost burdens and explain the reasons for the variance. The cost of purchasing or contracting out information

collection services should be a part of this cost burden estimate. In developing cost burden estimates, agencies may consult with a sample of respondent (fewer than 10), utilize the 60-day pre-OMB submission public comment process and use existing economic or regulatory impact analysis associated with the rulemaking containing the information collection, as appropriate.

Generally, estimates should not include purchases of equipment or services, or portions thereof, made: (1) prior to October 1, 1995, (2) to achieve regulatory compliance with requirements not associated with the information collection, (3) for reasons other than to provide information or keep records for the government, or (4) as part of customary and usual business or private practices.

The cost to conduct the annual inspection of a portable fire extinguisher ranges from \$10.00 to \$22.50<sup>3</sup> depending on the size of the extinguisher; therefore, for calculating cost, the Agency is using an average of \$16.25. As discussed in #12 above, about 5,869,911 extinguishers are tested through contract with a fire extinguisher maintenance service. The total cost associated with performing the required annual maintenance inspections under contract on 5,869,911 portable fire extinguishers is:

Portable fire extinguishers must undergo certain periodic inspections. These include:

Cost: 5,869,911 fire extinguishers x \$16.25 = \$95,386,054

14. Provide estimates of the annualized cost to the Federal Government. Also, provide a description of the method used to estimate cost, which should include quantification of hours, operational expenses (such as equipment, overhead, printing, and support staff), and any other expense that would not have been incurred without this collection of information. Agencies also may aggregate cost estimates from Items 12, 13, and 14 into a single table.

There is no cost to the Federal Government.

#### 15. Explain the reasons for any program changes or adjustments.

OSHA is requesting an adjustment increase of 4,489,161 responses (from 1,380,750 to 5,869,911) an increase of 224,458 burden hours (from 69,038 to 293,496 burden hours). The increased estimate for the number of responses stems from a reconsideration of how this figure should be calculated. Employers who contract for an inspection also are making a response under the PRA, and this ICR adjusts the estimate up to account for this. This increase is also a result of the change in the estimate of portable fire extinguishers from 1,380,750 to 5,869,911 (see explanation under Item 12). In addition, there is an increase in the cost under Item 13 from 20,193,469 to \$95,386,054 (an increase of \$75,192,585). This cost increase is the result of updated data indicating a decrease in the number of establishments; thus, the Agency estimates an increase in the number of portable fire extinguishers inspected by outside contractors.

16. For collections of information whose results will be published, outline plans for tabulation, and publication. Address any complex analytical techniques that will be used. Provide the time schedule for the entire project, including beginning and ending dates of the collection information, completion of report, publication dates, and other actions.

OSHA will not publish the information collected under the provision.

17. If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons that display would be appropriate.

<sup>3</sup>SOURCE: <u>http://sterlingfire.vicbc.com/extinguishers.htm</u>

OSHA lists current valid control numbers in §§1910.8, 1915.8, 1917.4, 1918.4, and 1926.5 and publishes the expiration date in the Federal Register notice announcing OMB approval of the information collection requirement. (See 5 CFR 1320.3(f)(3).) OSHA believes that this is the most appropriate and accurate mechanism to inform interested parties of these expiration dates.

#### 18. Explain each exception to the certification statement.

OSHA is not seeking an exception to the certification statement.

## **B. COLLECTION OF INFORMATION EMPLOYING STATISTICAL METHODS**

This supporting statement does not contain any collection of information requirements that employ statistical methods.

Tuble 1. Total Mandel of Fortable The Excinguishers (Estimated)							
Source		No. of Fire Extinguishers					
Non-Manufacturing Establishments		37,917,943					
Manufacturing Establishments		1,214,799					
	Total	39,132,742					

·	Table 1:	Total N	Number o	f Portable	Fire	Extinguishers	(Estimated)
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Table 1 was derived from Tables 2 and 3. As demonstrated in Table 2, the Agency estimates that there are 37,917,943 extinguishers in non-manufacturing establishments, based on the Commercial Building Energy Consumption Survey. OSHA estimates that there are an additional 1,214,799 extinguishers, as shown in Table 3, in manufacturing establishments, based on information from the U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics. These two numbers were derived by multiplying the average square foot per building (for each type of building), as reported by the aforementioned surveys, times the estimated 11,250 sq.ft. per extinguisher estimate, to determine the total number of fire extinguishers present, on average, per building. That number is multiplied by the total number of buildings (for non-manufacturing), or the total number of establishments (for manufacturing), to determine the total number of portable fire extinguishers needed for each sector.

Principal Building Activity	Avg. Sq. Footage per Building (a)	Square feet per Extinguisher (b)	No. of Fire Extinguishers per Building	Total Buildings (a)	Total No. of Fire Extinguishers
Education	85,623	11,250	7.6	388,659	2,958,046
Enclosed mall	893,735	11,250	79.4	1,379	109,517
Food sales	16,216	11,250	1.4	176,739	254,755
Food service	6,349	11,250	0.6	379,711	214,293
Inpatient health care	597,148	11,250	53.1	9,579	508,443
Laboratory	180,327	11,250	16.0	15,505	248,530
Lodging	175,865	11,250	15.6	128,389	2,007,042
Nonrefrigerated warehouse	107,284	11,250	9.5	787,169	7,506,752
Nursing	90,604	11,250	8.1	29,535	237,867
Office	138,745	11,250	12.3	1,012,373	12,485,527
Other	76,598	11,250	6.8	109,260	743,923
Outpatient health care	63,741	11,250	5.7	147,155	833,761
Public assembly	141,541	11,250	12.6	352,014	4,428,823
Public order and safety	119,609	11,250	10.6	83,841	891,386
Refrigerated warehouse	180,714	11,250	16.1	8,499	136,523
Religious worship	21,806	11,250	1.9	411,799	798,188
Retail other than mall	38,045	11,250	3.4	438,261	1,482,117
Service	16,835	11,250	1.5	618,544	925,593
Strip shopping mall	79,307			162,687	
		11,250	7.0		1,146,859
Grand Total					37,91
					7,943

#### Table 2: Fire Extinguishers in Non-Manufacturing Establishments

(a) Commercial Buildings Energy Consumption Survey (CBECS) building characteristics public use microdata files (2012 data released June 2015)

NAI CS Co Subsector and de Industry	Average Enclosed Floorspace per Establishment (sq ft) (a)	Square feet per Extinguisher (b)	No. of Fire Extinguishers per Establishment	Establishments (c)	Total No. of Fire Extinguishers
31Food	()	ě ()	<u>9.5</u>		8
Beverage and	107,293.7	11,250	9.5	13,271	126,568
312Tobacco Products	129,956.5	11,250	11.6	2,093	24,178
313Textile Mills Textile Product	192,402.3	11,250	17.1	1,341	22,934
314Mills	49,465.6	11,250	4.4	3,531	15,526
315Apparel Leather and	33,989.3	11,250	3.0	4,194	12,671
316Allied Products	56,567.1	11,250	5.0	452	2,273
321Wood Products	69,308.6	11,250	6.2	7,727	47,604
32⊉aper Printing and	180,654.8	11,250	16.1	3,734	59,961
323Related Support	31,952.6	11,250	2.8	15,313	43,492
Plastics and 32@Rubber Products Nonmetallic	116,972.6	11,250	10.4	8,268	85,967
327Mineral Products	48,443.2	11,250	4.3	11,997	51,660
33 Primary Metals Fabricated Metal	209,580.1	11,250	18.6	3,196	59,539
332Products	52,974.8	11,250	4.7	32,368	152,417
33 <b>3</b> Machinery Computer and Electronic	73,206.0	11,250	6.5	14,370	93,508
334Products	96,182.9	11,250	8.5	6,685	57,154

Table 3: Fire Extinguishers in Non-Manufacturing Establishments

Total					1,214,799
339Miscellaneous	33,443.8	11,250	3.0	13,495	40,118
33 Related Products	71,534.2	11,250	6.4	8,258	52,509
33 <b>@</b> quipment Furniture and	244,986.4	11,250	21.8	6,270	136,539
33 <b>5</b> Components Transportation	90,124.9	11,250	8.0	3,294	26,389
Electrical Equip., Appliances, and					

(a) Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2010 Manufacturing Energy Consumption Survey.'

(b) Field's Fire Protection Inc. (2017). How Many Extinguishers are Required? Available at http://www.fieldsfire.com/how-many-extinguishers-are-required (Accessed March 9, 2017).

(c) U.S. Census Bureau. (2014). County Business Patterns - 2014 (Released April 24, 2016). Available at http://www.census.gov/data/datasets/2014/econ/cbp/2014-cbp.html (Accessed July 13, 2016).