

## Supporting Statement

30 CFR § 57.22606(a), Explosive Materials and Blasting Units (pertains only to metal and nonmetal underground mines deemed to be gassy)

### 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 Secretary of Labor (Secretary) shall in accordance with procedures set forth in Section 101(a) of the Federal Mine Safety and Health Act of 1977 (Mine Act), and Section 553 of Title 5, United States Code, develop, promulgate, and revise as may be appropriate, improved mandatory health or safety standards for the protection of life and prevention of injuries in coal or other mines.

Under Title 30 U.S. Code of Federal Regulations (30 C.F.R.) Parts 7 and 15, the Mine Safety and Health Administration (MSHA) evaluates and approves explosive materials and blasting units as permissible for use in the mining industry. However, since there are no permissible explosives or blasting units available that have adequate blasting capacity for some metal and nonmetal gassy mines, 30 C.F.R. § 57.22606(a) outlines the procedures for mine operators to follow when using non-approved explosive materials and blasting units. The standard provides that mine operators of metal or nonmetal gassy mines must notify MSHA in writing prior to their use of non-approved explosive materials and blasting units. MSHA then evaluates the non-approved explosive materials and determines whether they are safe for use in a potentially gassy environment.

**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.**

MSHA uses the information provided by the mine operator to determine whether non-approved blasting materials and explosives and procedures are safe for use in a gassy underground metal or nonmetal mine. Without such determinations, miners may be exposed to significant safety risks.

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**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.**

No improved information technology has been identified that would reduce the burden; however, in order to comply with the Government Paperwork Elimination Act mine operators may request MSHA evaluation and approval of explosive materials and blasting units for use in the mining industry and retain the records in whatever method they choose, which may include utilizing computer technology.

**4. Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purposes described in Item 2 above.**

MSHA knows of no other Federal or State requirement that would duplicate this requirement.

**5. If the collection of information impacts small businesses or other small entities (Item 5 of OMB Form 83-1), describe any methods used to minimize burden.**

This information does not have a significant impact on small businesses or other small entities. However, MSHA has made available on our web-site various sources of information, such as "Technical Assistance," "Best Practices," and an "Accident Prevention" site. To assist with compliance, these provide tips and general information on a number of various topics.

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

The underground metal and nonmetal mine operator notifies the appropriate MSHA District Manager of all non-approved explosive materials and blasting units to be used prior to their actual use. Failure to enforce these requirements could result in the use of unsafe explosives by mine operators and create unsafe conditions, jeopardizing the safety of miners.

**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-in-aid, 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 a statistical data classification that has not been reviewed and approved by OMB;**
- ! that includes a pledge of confidentiality 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 demonstrate that it has instituted procedures to protect the information's confidentiality to the extent permitted by law.**

The requirements under this standard are consistent with the general information collection guidelines in 5 C.F.R. § 1320.5.

**8. If applicable, provide a copy and identify the data 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 prior to submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the agency in response to these comments. Specifically address comments received on cost and hour burden.**

**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,**

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**disclosure, or reporting format (if any), and on the data elements to be recorded, disclosed, 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 3 years -- even if the collection of information activity is the same as in prior periods. There may be circumstances that may preclude consultation in a specific situation. These circumstances should be explained.**

MSHA published a 60-day preclearance Federal Register notice on July 25, 2006 (Volume 71, Number 142, Pages 42131-42132), soliciting public comments regarding the extension of this information collection. No comments were received.

**9. Explain any decision to provide any payment or gift to respondents, other than remuneration of contractors or grantees.**

MSHA has made no decision to provide payment or gifts to the respondents identified by this collection.

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

There is no personal information requiring confidentiality.

**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.**

There are no questions of a sensitive nature.

**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**

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**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 in Item 13 of OMB Form 83-I.**
- ! 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.**

There are five metal and nonmetal underground mines deemed to be gassy. MSHA estimates that only one underground metal and nonmetal mine operators will change explosive materials or blasting units during the year. Therefore, only one operator would need to prepare a notice each year to the appropriate MSHA District Manager stating that they are seeking to use non-approved explosive materials or blasting units. It is further estimated that it takes the mine operator approximately one hour to prepare and submit the notice. Salaries are taken from the U.S. Metal & Industrial Mineral Mine Salaries, Wages, & Benefits - 2004 Survey Results.

Burden hours:

1 notice x 1 hour/notice	=
	1 hour

Burden cost:

1 hour x \$46.37 per hour (average salary of mine management official)	=
	\$46.37

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**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 services 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 respondents (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.**

There are no costs associated with this collection other than those included in Items 12 and 14.

**14. Provide estimates of 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 in a single table.**

MSHA estimates that it will take approximately one hour to review a notice of the proposed use of non-approved blasting materials.

1 notice x 1 hour/notice x \$per hour (average salary \$30.06 of MSHA safety specialist, GS 12/5) = \$30.06

**15. Explain the reasons for any program changes or adjustments reporting in Items 13 or 14 of the OMB Form 83-I.**

As a result in a reduction in the number of mines that will request a change, there has been a decrease in the number of Respondents, Responses, and Hours.

Respondents: There has been a decrease of 1 Respondent (2 to 1).

Responses: There has been a decrease of 1 Response (2 to 1).

Hours: There has been a decrease of 1 Burden Hour (2 to 1).

Costs: There are no burden costs associated with this collection.

**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 of information, completion of report, publication dates, and other actions.**

The results from the information gathered from this collection will not be published.

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

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There are no forms associated with this collection.

**18. Explain each exception to the certification statement identified in Item 19, "Certification for Paperwork Reduction Act Submission," of OMB 83-I.**

There are no certification exceptions identified with this information collection.



**B. Collection of Information Employment Statistical Methods**

The agency should be prepared to justify its decision not to use statistical methods in any case where such methods might reduce burden or improve accuracy of results. When Item 17 on the Form OMB 83-I is checked "Yes", the following documentation should be included in the Supporting Statement to the extent that it applies to the methods proposed:

1. Describe (including a numerical estimate) the potential respondent universe and any sampling or other respondent selection methods to be used. Data on the number of entities (e.g., establishments, State and local government units, households, or persons) in the universe covered by the collection and in the corresponding sample are to be provided in tabular form for the universe as a whole and for each of the strata in the proposed sample. Indicate expected response rates for the collection as a whole. If the collection had been conducted previously, include the actual response rate achieved during the last collection.

2. Describe the procedures for the collection of information including:

- Statistical methodology for stratification and sample selection,
- Estimation procedure,
- Degree of accuracy needed for the purpose described in the justification,
- Unusual problems requiring specialized sampling procedures, and
- Any use of periodic (less frequently than annual) data collection cycles to reduce burden.

3. Describe methods to maximize response rates and to deal with issues of non-response. The accuracy and reliability of information collected must be shown to be adequate for intended uses. For collections based on sampling, a special justification must be provided for any collection that will not yield "reliable" data that can be generalized to the universe studied.

4. Describe any tests of procedures or methods to be undertaken. Testing is encouraged as an effective means of refining collections of information to minimize burden and improve utility. Tests must be approved if they call for answers

**to identical questions from 10 or more respondents. A proposed test or set of tests may be submitted for approval separately or in combination with the main collection of information.**

**5. Provide the name and telephone number of individuals consulted on statistical aspects of the design and the name of the agency unit, contractor(s), grantee(s) or other person(s) who will actually collect and/or analyze the information for the agency.**

This collection of information does not employ statistical methods.

**Federal Mine Safety & Health Act of 1977,  
Public Law 91-173,  
as amended by Public Law 95-164\*An Act**

**MANDATORY SAFETY AND HEALTH STANDARDS**

SEC. 101. (a) The Secretary shall by rule in accordance with procedures set forth in this section and in accordance with section 553 of title 5, United States Code (without regard to any reference in such section to sections 556 and 557 of such title), develop, promulgate, and revise as may be appropriate, improved mandatory health or safety standards for the protection of life and prevention of injuries in coal or other mines.

[Code of Federal Regulations]  
[Title 30, Volume 1]  
[Revised as of July 1, 2006]  
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[Page 418-419]

TITLE 30--MINERAL RESOURCES

CHAPTER I--MINE SAFETY AND HEALTH ADMINISTRATION,  
DEPARTMENT OF LABOR

PART 57\_SAFETY AND HEALTH STANDARDS\_UNDERGROUND METAL AND  
NONMETAL MINES

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Subpart T\_Safety Standards for Methane in Metal and  
Nonmetal Mines

Sec. 57.22606 Explosive materials and blasting units (III  
mines).

(a) Mine operators shall notify the appropriate MSHA District Manager of all nonapproved explosive materials and blasting units to be used prior to their use. Explosive materials used for blasting shall be approved by MSHA under 30 CFR part 15, or nonapproved explosive materials shall be evaluated and determined by the District Manager to be safe for blasting in a potentially gassy environment. The notice shall also include the millisecond-delay interval between successive shots and between the first and last shot in a round.

(b) Faces shall be examined for proper placement of holes, possible breakthrough, and water. Ammonium nitrate blasting agents shall not be loaded into wet holes.

(c) Multiple-shot blasts shall be initiated with detonators encased in copper-based alloy shells. Aluminum and aluminum alloy-cased detonators, nonelectric detonators, detonating cord, and safety fuses shall not be used. All detonators in a round shall be made by the same manufacturer.

(d) Nonapproved explosives shall be used only as primers with ammonium nitrate-fuel oil blasting agents. Such primers shall be placed at the back or bottom of the hole.

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(e) Blast holes shall be stemmed with a noncombustible material in an amount to confine the explosive charge. Breakthrough holes shall be stemmed at both ends.

(f) Mudcaps or other nonapproved unconfined shots shall not be blasted.

(g)(1) Blasting units shall be approved by MSHA under 30 CFR part 25; or

(2) Blasting units used to fire more than 20 detonators shall provide at least 2 amperes through each detonator but not more than an average of 100 amperes through one ohm for 10 milliseconds, and provide the necessary current for at least the first 5 milliseconds with a cutoff not to exceed 10 milliseconds.

[52 FR, 24941, July 1, 1987, as amended at 52 FR 41397, Oct. 27, 1987]