

SUPPORTING STATEMENT

Rock Burst Control Plan, 30 CFR Part 57.3461 (pertains to underground metal and nonmetal mines)

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.

Title 30, CFR 57.3461 requires operators of underground metal and nonmetal mines to develop a rock burst control plan within 90 days after a rock burst has been experienced. Plans include mining and operating procedures designed to reduce the occurrence of rock bursts; monitoring procedures where detection methods are used; and other measures to minimize exposure of persons to areas which are prone to rock bursts. Plans are also required to be updated as conditions warrant and are to be made available to Mine Safety and Health Administration (MSHA) inspectors and to mine employees. The standard does not require that all underground metal and nonmetal mines develop these preventative measures, but it does require that all mines with rock burst history develop a control plan.

When rock bursts occur in an underground mine, they pose a serious threat to the safety of miners in the area affected by the burst. These bursts may reasonably be expected to result in the entrapment of miners, death, and serious physical harm. Recent mining technology has disclosed scientific methods of monitoring rock stresses which will allow the prediction of an oncoming burst. These predictions can be used by the mine operator to move miners to safer locations and to establish areas which need relief drilling.

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 to inform other mine operators who may need to address similar hazards and to determine compliance with

the standard. The mine operator uses the information for work area assignments to assure miner safety and to schedule correction work. The miner must know what is required of him or her in the event of recorded rock stress.

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 to comply with the Government Paperwork Elimination Act, mine operators may develop rock burst control plans 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.

No similar nor duplicate information exists that could be used. Information gathered is peculiar to the specific mine and is not duplicated anywhere.

5. If the collection of information impacts small businesses or other small entities (Item 5 of OMB Form 83-I), 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.

Rock burst control plans need only be developed once and then updated or altered as mine conditions and control technology change.

7. Explain any special circumstances that would cause an information collection

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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.

Collection of information is consistent with the guidelines in 5 CFR 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, disclosure, or reporting format (if any), and on the data elements to be recorded, disclosed, or reported.

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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.

In accordance with 5 CFR 1320.8(d), MSHA will publish the proposed information collection requirements in the Federal Register, notifying the public that these information collection requirements are being reviewed in accordance with the Paperwork Reduction Act of 1995, and giving interested persons 60 days to submit comments.

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.

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

No records requiring confidentiality are required by this collection.

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 requirements contain 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 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 14.

The annual burden for this standard consists of sporadic updates. Staff specialists estimate that at least two operating metal mines will experience rock bursts and need to update their rock burst control plans each year. The average time expended on plan updates is estimated to be 12 hours.

$$2 \text{ mines} \times 12 \text{ hours} = 24 \text{ burden hours}$$

Plan revisions are usually made by company safety personnel earning \$47.58 per hour based on salary rates obtained from the U.S. Metal & Industrial Mineral Mine Salaries, Wages, & Benefits - 2002 Survey Results. The burden cost is estimated as follows:

$$24 \text{ hours} \times \$47.58 = \$1,141.92$$

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.

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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.

Because the records are maintained by the mine operator, there are no additional costs associated with this burden other than those described above.

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 enforcement personnel examine the records during routine inspections. There is minimal cost to the Government as these records are reviewed during the course of those inspections.

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

There is no change or adjustment for 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 September 30, 2004

beginning and ending dates of the collection of information, completion of report, publication dates, and other actions.

MSHA does not intend to publish the results of this information collection.

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.

There are no forms associated with this information collection; therefore, MSHA is not seeking approval to not display the expiration date for OMB approval of this information 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.

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

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That this Act may be cited as the "Federal Mine Safety and Health Act of 1977".

TITLE I--GENERAL
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, 2003]
From the U.S. Government Printing Office via GPO Access
[CITE: 30CFR57.3461]

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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--
Table of Contents

Subpart B--Ground Control

Sec. 57.3461 Rock bursts.

- (a) Operators of mines which have experienced a rock burst shall--
 - (1) Within twenty four hours report to the nearest MSHA office each rock burst which:
 - (i) Causes persons to be withdrawn;
 - (ii) Impairs ventilation;
 - (iii) Impedes passage; or
 - (iv) Disrupts mining activity for more than one hour.
 - (2) Develop and implement a rock burst control plan within 90 days after a rock burst has been experienced.

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- (b) The plan shall include--
 - (1) Mining and operating procedures designed to reduce the occurrence of rock bursts;
 - (2) Monitoring procedures where detection methods are used; and
 - (3) Other measures to minimize exposure of persons to areas which are prone to rock bursts.
- (c) The plan shall be updated as conditions warrant.
- (d) The plan shall be available to an authorized representative of the Secretary and to miners or their representatives.

Agency: Mine Safety and Health Administration

Title: Rock Burst Control Plan

OMB Number: 1219-0097 (Extension)

Frequency: On Occasion

Affected Public: Business or other for-profit.

Number of Respondents: 2

Estimated Time Per Respondent: 12 hours

Total Burden Hours: 24 hours

Total Annualized Capital/startup Costs: \$0

Total Annual (operating/maintaining): \$0

Description: Rock bursts in an underground mine pose a serious threat to the safety of miners in the area affected by the burst. These bursts may reasonably be expected to result in the entrapment of miners, death, and serious physical harm. Title 30 Section 57.3461 requires operators of underground metal and nonmetal mines to develop a rock burst control plan within 90_days after a rock burst has been experienced.