UC 149-2

UNION CARBIDE **INTERNAL CORRESPONDENCE**

METALS DIVISION • P.O. BOX 579 - 4625 ROYAL AVE., NIAGARA FALLS, NEW YORK 14302

To (Name)	Messrs. R. E. Byrne, Jr.	Date	February 16, 1977
Division	G. L. Dickson		
Location	E. J. Kleber	Originating Dept.	"Calidria" Asbestos
	J. L. Myers		
	T. P. Norris ✓	Answering letter date	
	W. C. Thurber		
Copy to	J. E. Walsh	Subject	Health Standards for Amorphous and Crystalline Silica
	File		

G-1-e

The attached report on the status of OSHA Health Standards for amorphous and crystalline silica was discussed briefly at our meeting in Washington. A summary of NIOSH recommendations for an appropriate regulation for crystalline silica is also provided for your information. Note that it sets a very low exposure level and is quite similar to the present asbestos health standard regarding the difficult monitoring and medical examination requirements.

For your added information, the bad news is that pyrogenic silica is amorphous and does not contain any crystalline material that we have been able to detect. To the best of my knowledge, neither have been implicated as a carcinogen.

H. B. Rhodes/dal

H. B. Rhodes

HBR:dal
Attachments

PLAINTIFF'S EXHIBIT
tabbies
UC-1610

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ASBESTOS INFORMATION ASSOCIATION
NORTH AMERICA
1835 K Street, N.W., Washington, D.C. 20006 • (202) 223-4885

7 February 1977

MEMORANDUM FOR THE RECORD

Subject: Status of Silica Standards

The current status of OSHA silica standards is as follows:

a. Amorphous Silica - An advance notice of proposed rulemaking was issued in the Federal Register, December 28, 1976 (copy enclosed).

b. Crystalline Silica - An advance notice of proposed rulemaking was issued in the Federal Register, December 27, 1974 (copy enclosed).

Inflationary Impact Statements are currently under preparation by an OSHA contractor. Best estimate is issuance of proposed crystalline standard July 1, 1977, and amorphous silica standard to follow later this year.

Current silica standard appears in Table Z-3, 29 CFR 1910.100 (copy enclosed). OSHA Project Officer is: Ms. Patty Waugh, (202) 523 7151.

B. J. Pigg
Administrative Assistant

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION ADVANCE NOTICE OF PROPOSED RULEMAKING FOR A STANDARD FOR AMORPHOUS SILICA

[41 FR 56336, December 28, 1976]

DEPARTMENT OF LABOR

Occupational Safety and Health Administration

[29 CFR Part 1910]

[Docket No. H-104]

AMORPHOUS SILICA

Advance Notice of Proposed Rulemaking

The Occupational Safety and Health Administration, U.S. Department of Labor is studying the general health implications, safe exposure levels, and methods of sampling and measurement for amorphous silica. It is considering preparing a new proposed standard which will be complete and will better protect employees exposed to amorphous silica in the diatomaceous earth processing industry, refractory brick industry, wine and liquor production industry, and other industries which use amorphous silica or diatomaceous earth for cleaning, polishing, filtering, calcining or other processes. There is now no complete standard for amorphous silica but an exposure limit is set by Table Z-3 of 29 CFR 1910.1000 (formerly Table G-3 of 29 CFR 1910.93).

This advance notice of proposed rulemaking is being published to permit interested persons to submit information useful in the preparation of a proposed standard and suggested requirements to be included within it. Interested persons will also be entitled to participate in the rulemaking process after the publication of any proposed standard on amorphous silica through written comments and participation at a hearing if requested.

Accordingly, interested persons are invited to submit by March 1, 1977, written data, views and comments concerning a standard on amorphous silica for employees to the Docket Officer, Docket No. H-104, Occupational Safety and Health Administration, U.S. Department of Labor, Room N-3620, 200 Constitution Ave., NW, Washington, D.C. 20210 (Telephone (202) 523-8076). Comments are specifically requested concerning:

(1) Health effects of amorphous silica;

(2) Data useful for setting a safe exposure level and also data of current exposure levels;

(3) The use of respirable mass of dust as a measure of risk;

(4) Workplaces, processes, occupations or jobs where exposures to amorphous silica can occur;

(5) Appropriate engineering controls, work practices and personal protective equipment to reduce levels of exposure;

(6) Appropriate provisions for employee exposure monitoring, methods of compliance, signs and labels, medical surveillance, training and recordkeeping;

(7) The application of recordkeeping and similar requirements to small businesses and those with highly transient work forces;

(8) The feasibility of complying with a complete amorphous silica standard at the current or a reduced level of exposure;

(9) The environmental, economic and inflationary impact of a complete amorphous silica standard at the current or a reduced level of exposure; and

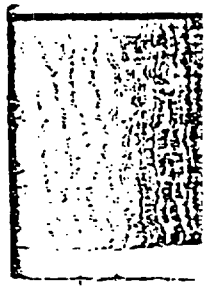
(10) Any other information pertinent in preparing an amorphous silica standard.

(Secs. 4(b), 6(b) and 8 of the Occupational Safety and Health Act of 1970 (84 Stat. 1593, 1593, 1599; 29 U.S.C. 653(b), 655(b), 657) and Secretary of Labor's Order No. 8-76 (41 FR 25059, June 22, 1976).)

Signed at Washington, D.C. this 17th day of December 1976.

MORTON CORN,
Assistant Secretary of Labor.

[FR Doc.76-37870 Filed 8-27-76;8:45 am]



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2100 Travis Street
Houston, Texas 77002

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Kansas City, Missouri 64108

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Portland, Oregon 97205

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Occupational Safety and Health Administration
228 Idaho Building
216 North 8th Street
Boise, Idaho 83702

and they will be available for inspection at the national and regional offices of the U.S. Department of Health, Education, and Welfare, National Institute for Occupational Safety and Health, at the following addresses:

U.S. Department of HEW
National Institute for Occupational Safety and Health
Room 10–A–22
5600 Fishers Lane
Rockville, Maryland 20852

U.S. Department of HEW
National Institute for Occupational Safety and Health
1100 Commerce Street, Room 8–C–53
Dallas, Texas 75202

U.S. Department of HEW
National Institute for Occupational Safety and Health
401 North Broad Street
Philadelphia, Pennsylvania 19108

U.S. Department of HEW
National Institute for Occupational Safety and Health
9017 Federal Building
19th and Stout Streets
Denver, Colorado 80202

U.S. Department of HEW
National Institute for Occupational Safety and Health
50 Seventh Street, N.E.
Atlanta, Georgia 30323

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Arcade Building
1321 Second Street
Seattle, Washington 98101

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National Institute for Occupational Safety and Health
John F. Kennedy Federal Building
Government Center
Boston, Massachusetts 02203

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26 Federal Plaza
New York, New York 10007

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National Institute for Occupational Safety and Health
601 East 12th Street
Kansas City, Missouri 64106

U.S. Department of HEW
National Institute for Occupational Safety and Health
254 Federal Office Building
50 Foulton Street
San Francisco, California 94102

U.S. Department of HEW
National Institute for Occupational Safety and Health
300 South Wacker Drive
Chicago, Illinois 60607

Finally, copies of the NIOSH document will be available for purchase from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

This advance notice of proposed rulemaking is issued under section 6 of the Williams-Steiger Occupational Safety and Health Act of 1970 (84 Stat. 1593; 29 U.S.C. 655) and Secretary of Labor's Order No. 12–71 (36 FR 8754).

Signed at Washington, D.C., this 23rd day of December, 1974.

JOHN STENDER,
Assistant Secretary of Labor.

[FR Doc.74–30223 Filed 12–26–74;8:45 am]

[29 CFR Part 1910]

STANDARD FOR OCCUPATIONAL EXPOSURE TO CRYSTALLINE SILICA

Advance Notice of Proposed Rulemaking

The National Institute for Occupational Safety and Health (NIOSH), U.S. Department of Health, Education, and Welfare has submitted to the Secretary of Labor, pursuant to the Williams-Steiger Occupational Safety and Health Act of 1970, criteria for a recommended standard on the occupational exposure to crystalline silica. The Office of Standards Development, Occupational Safety and Health Administration, U.S. Department of Labor is studying the criteria and would appreciate public participation on the issues of whether a new standard for crystalline silica should be issued on the basis of the criteria or any other information, and, if so, what should be the contents of a proposed standard for crystalline silica. The issues

Union Carbide trial exhibit UC-1610: H. B. Rhodes to R. E. Byrne, Jr. and Others on Health Standards for Amorpho… Published by AsbestosClaims.Law
ACL Doc 16707 · Page 4 of 9 asbestosclaims.law/library/16707/4

are set forth with greater particularity below.

Accordingly, interested persons are invited to submit written data, views, and arguments concerning a standard on occupational exposure to crystalline silica. Comments are specifically requested concerning:

(1) Whether a new standard on occupational exposure to crystalline silica should be issued;

(2) Each section of the standard recommended by NIOSH;

(3) Suitable alternatives to the recommendations of NIOSH;

(4) Work injury and illness experience with crystalline silica;

(5) Supported cost data of the estimated costs of coming into compliance with the standard recommended by NIOSH;

(6) Supported data on any possible environmental impact of the recommended standard, and specifically, (a) any adverse environmental effects which cannot be avoided should the standard be adopted, (b) alternatives to such standard, (c) the relationship between local short-term uses of man's environment and the maintenance and enhancement of long-term productivity, and (d) any irreversible commitments of resources which would be involved if the standard should be implemented; and

(7) Any other related issues.

Communications should be submitted to the Docket Officer, Occupational Safety and Health Administration, U.S. Department of Labor, Room 260, 1726 M Street NW., Washington, D.C. 20210. The communications will be available for public inspection and copying at the above location.

The NIOSH document containing the criteria and the recommended standard on occupational exposure to crystalline silica will be available for inspection and copying, upon request, at any of the following addresses:

NATIONAL OFFICE

U.S. Department of Labor
Occupational Safety and Health Administration
Technical Data Center
Room 260
1726 M Street, NW.
Washington, D.C. 20210

REGIONAL OFFICES

U.S. Department of Labor
Occupational Safety & Health Administration
Fifth Floor
18 Oliver Street
Boston, Massachusetts 02110

U.S. Department of Labor
Occupational Safety & Health Administration
1515 Broadway (1 Astor Plaza)
New York, New York 10036

U.S. Department of Labor
Occupational Safety & Health Administration
15220 Gateway Center
3535 Market Street
Philadelphia, Pennsylvania 19104

U.S. Department of Labor
Occupational Safety & Health Administration
1375 Peachtree Street, N.E.—Suite 587
Atlanta, Georgia 30309

U.S. Department of Labor
Occupational Safety & Health Administration
300 South Wacker Drive—Room 1201
Chicago, Illinois 60606

U.S. Department of Labor
Occupational Safety & Health Administration
7th Floor—Texaco Building
1512 Commerce Street
Dallas, Texas 75201

U.S. Department of Labor
Occupational Safety & Health Administration
911 Walnut Street
Room 3000
Kansas City, Missouri 64106

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Occupational Safety & Health Administration
Federal Building—Room 115010
1961 Stout Street
Denver, Colorado 80202

U.S. Department of Labor
Occupational Safety & Health Administration
9470 Federal Building
450 Golden Gate Avenue
Post Office Box 36017
San Francisco, California 94102

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Occupational Safety & Health Administration
506 Second Avenue
1808 Smith Tower Building
Seattle, Washington 98104

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Custom House Building
State Street
Boston, Massachusetts 02109

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Occupational Safety and Health Administration
Federal Building—Room 425
55 Pleasant Street
Concord, New Hampshire 03301

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Occupational Safety and Health Administration
Federal Building—Room 617
450 Main Street
Hartford, Connecticut 06103

U.S. Department of Labor
Occupational Safety and Health Administration
U.S. Post Office and Courthouse Building
436 Dwight Street
Room 504
Springfield, Massachusetts 01103

U.S. Department of Labor
Occupational Safety and Health Administration
90 Church Street—Room 1405
New York, New York 10007

U.S. Department of Labor
Occupational Safety and Health Administration
Federal Office Building
970 Broad Street—Room 1435C
Newark, New Jersey 07102

U.S. Department of Labor
Occupational Safety and Health Administration
Room 203—Midtown Plaza
700 East Water Street
Syracuse, New York 13210

U.S. Department of Labor
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370 Old Country Road
Garden City, Long Island, New York 11530

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Condominium San Alberto Building
605 Condado Avenue—Room 328
Santurce, Puerto Rico 00970

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Occupational Safety and Health Administration
William J. Green, Jr., Federal Building
600 Arch Street
Philadelphia, Pennsylvania 19106

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Federal Building—Room 1110-A
31 Hopkins Plaza—Charles Center
Baltimore, Maryland 21201

U.S. Department of Labor
Occupational Safety and Health Administration
Charleston National Plaza—Suite 1726
700 Virginia Street
Charleston, West Virginia 25301

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Room 802, Jonnet Building
4099 William Penn Highway
Monroeville, Pennsylvania 15146

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Occupational Safety and Health Administration
Federal Building—Room 8081
400 N. 8th Street, P.O. Box 10186
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Nashville, Tennessee 37203

U.S. Department of Labor
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Art Museum Plaza
Jacksonville, Florida 32207

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Todd Mall, 2047 Canyon Road
Birmingham, Alabama 35216

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1240 East Ninth Street
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360 S. Third Street—Room 109
Columbus, Ohio 43215

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Occupational Safety and Health Administration
Michigan Theatre Building—Room 626
200 Bagley Avenue
Detroit, Michigan 48226

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110 South Fourth Street—Room 427
Minneapolis, Minnesota 55401

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Clark Building—Room 400
633 West Wisconsin Avenue
Milwaukee, Wisconsin 53203

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Room 423
46 East Ohio Street.
Indianapolis, Indiana 46204

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Occupational Safety and Health Administration
Room 5522—Federal Office Building
550 Main Street
Cincinnati, Ohio 45202

U.S. Department of Labor
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Room 734 Federal Office Building
234 N. Summit Street
Toledo, Ohio 43604

U.S. Department of Labor
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307 Central National Bank Building
2100 Travis Street
Houston, Texas 77002

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Adolphus Tower—Suite 1820
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Room 421—Federal Building
1205 Texas Avenue
Lubbock, Texas 79401

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546 Carondelet Street—Room 202
New Orleans, Louisiana 70130

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Room 512—Petroleum Building
420 South Boulder
Tulsa, Oklahoma 74103

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Room 526—Donaghey Building
103 East 7th Street
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Occupational Safety and Health Administration
1015 Jackson Keller Road—Room 215
San Antonio, Texas 78213

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Room 302—Federal Building
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Portland, Oregon 97205

U.S. Department of Labor
Occupational Safety and Health Administration
228 Idaho Building
216 North 8th Street
Boise, Idaho 83702

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5600 Fishers Lane
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1100 Commerce Street, Room 8–C–53
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Boston, Massachusetts 02203

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Chicago, Illinois 60607

Finally, copies of the NIOSH document will be available for purchase from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

This advance notice of proposed rulemaking is issued under section 6 of the Williams-Steiger Occupational Safety and Health Act of 1970 (84 Stat. 1593; 29 U.S.C. 655) and Secretary of Labor's Order No. 12–71 (36 FR 8754).

Signed at Washington, D.C., this 23rd day of December, 1974.

JOHN STENDER,
Assistant Secretary of Labor.

[FR Doc.74-30224 Filed 12-26-74;8:45 am]

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Office of Education

[45 CFR Part 151]

RIGHT TO READ STATE GRANTS

Notice of Proposed Rule Making

In accordance with section 503 of the Education Amendments of 1972 (Pub. L. 92–318) and pursuant to the authority contained in section 2(a) of the Cooperative Research Act, Pub. L. 83–531, as amended (20 U.S.C. 331a), the Commissioner of Education, with the approval of the Secretary of Health, Education, and Welfare, proposes to amend Part 151 of Title 45 of the Code of Federal Regulations by adding a new Subpart D, to read as set forth below.

1. *Right to Read Program.* Section 2(a)(1) of the Cooperative Research Act authorizes the Commissioner of Education to award grants for surveys, dissemination of information, and exemplary projects in the field of education. Funds which are appropriated pursuant to this authority to carry out the Right to Read Program are utilized to make grants to, and contracts with, eligible applicants for the purpose of increasing functional literacy within the United States.

Apart from a limited number of specifically focused procurements, the Right to Read effort is carried out through grant awards pursuant to the provisions of this part. Grants are made within the following competitions or sub-programs: (1) Preservice Teacher Training; (2) Right to Read States Program; (3) School-based program; (4) Community-based program; and (5) Special projects for national impact.

The following regulations set forth rules governing the award and administration of grants for the planning and carrying out of statewide reading activities designed to prevent and eliminate illiteracy. The purpose of these grants is to provide financial assistance to State educational agencies (or other eligible applicants) so that they may train and provide technical assistance and information to school administrators responsible for the development and carrying out of reading programs in local educational agencies and other elementary and secondary schools.

2. *Section 503 procedures and effect.* Section 503 of the Education Amendments of 1972 requires the Commissioner to study all rules, regulations, guidelines, or other published interpretations or orders issued by him or by the Secretary after June 30, 1965, in connection with, or affecting, the administration of Office of Education programs; to report to the Committee on Labor and Public Welfare of the Senate and the Committee on Education and Labor of the House of Representatives concerning such study; and to publish in the FEDERAL REGISTER such rules, regulations, guidelines, interpretations, and orders, with an opportunity for public hearing on the matters so published. The regulations proposed below reflect the results of this study as it pertains to the Right to Read States Program. Once these regulations are published in final form, and become effective after comments and hearing, all preceding rules, regulations, guidelines, and other published interpretations and orders issued in connection with or affecting the program (except the Office of Education's general provisions regulations) will be superseded. At present there will me no guidelines for the program. If guidelines should be issued in the future, they will be limited to recommendations and suggestions for program operation and management.

3. *Citations of legal authority.* As required by section 431(a) of the General Education Provisions Act and section 503 of the Education Amendments of 1972, a citation of statutory or other legal authority for each section of the regulations has been placed in parentheses on the line following the text of the section.

On occasion, a citation appears at the end of a subdivision of the section. In that case, the citation applies to all that appears in that section between the citation and the next preceding citation. When the citation appears only at the end of the section it applies to the entire section.

4. *General provisions regulations.* The proposed regulations do not contain provisions relating to general fiscal and administrative matters. Requirements of this nature are covered by the Office of Education general provisions regulations (38 FR 30654, November 6, 1973). (Reference is made in particular to 45 CFR Part 100a, which contains general provisions for discretionary programs, including the Right to Read States Program.)

5. *Opportunity for public hearing.* Pursuant to section 503(c) of the Education Amendments of 1972, the Commissioner will provide interested parties an opportunity for a public hearing on these regulations as follows:

A hearing will take place at the U.S. Office of Education on January 27, 1975, in the auditorium of Regional Office Building Three (ROB–3), 7th and D Streets, SW., Washington, D.C. beginning at 10 a.m.

The purpose of the hearing is to receive comments and suggestions on the published materials.

Parties interested in attending the hearing should notify the Chairman, Office of Education Task Force on Section 503, 400 Maryland Avenue, SW., Room 2085, Federal Office Building Six (FOB–6), Washington, D.C. 20202, and are urged to submit a written copy of their comments with such notification. Each party planning to make oral comments at the hearing is urged to limit his presentation to a maximum of fifteen minutes.

Interested parties may also submit written comments and recommendations to the Chairman of the Education Task Force on Section 503 at the above address. All relevant material received prior to the date of the hearings will be considered. Comments and suggestions submitted in writing will be available for review in the above office between the hours of 8:30 a.m. and 4 p.m., Monday through Friday of each week.

(Catalog of Federal Domestic Assistance Program Number 13.533; Right to Read—Elimination of Illiteracy)

Dated: November 13, 1974.

T. H. BELL,
U.S. Commissioner of Education.

Approved: December 12, 1974.

CASPAR W. WEINBERGER,
Secretary of Health, Education, and Welfare.

As proposed, 45 CFR Part 151, Subpart D would read as follows:

Subpart D—Right to Read State Grants

§ 151.40 Scope and purpose.

(a) This subpart governs applications from State educational agencies (and other eligible applicants) for the purpose of carrying out statewide reading activities designed to assist school administrators responsible for the development and carrying out of reading programs in local educational agencies.

(b)(1) Although it is expected that grants pursuant to this subpart will ordinarily be awarded to State educational agencies because they are uniquely situated to carry out the activities described in this subpart, other eligible applicants under section 2 of the Act may also apply, and their applications will be reviewed on the basis of the funding requirements and criteria in this subpart.

Union Carbide trial exhibit UC-1610: H. B. Rhodes to R. E. Byrne, Jr. and Others on Health Standards for Amorpho... Published by AsbestosClaims.Law
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[¶7600.7]

TABLE Z-3-Mineral Dusts

Substance	Mppcf [a]	Mg/M³
Silica:		
Crystalline:		
Quartz (respirable)	250 [f]	10mg/M³ = %SiO₂+2
Quartz (total dust)	%SiO₂+5	%SiO₂+2 30mg/M³
		%SiO₂+2
Cristobalite: Use ½ the value calculated from the count or mass formulae for quartz.		
Tridymite: Use ½ the value calculated from the formulae for quartz.		
Amorphous, including natural diatomaceous earth	20	80mg/M³
		%SiO₂
Silicates (less than 1% crystalline silica):		
Mica	20	
Soapstone	20	
Talc (non-asbestos-form)	20[e]	
Talc (fibrous). Use asbestos limit		
Tremolite (see talc, fibrous)		
Portland cement	50	
Graphite (natural)	15	
Coal dust (respirable fraction less than 5% SiO₂)		2.4mg/M³ or
For more than 5% SiO₂		10mg/M³
		%SiO₂+2
Inert or Nuisance Dust:		
Respirable fraction	15	5mg/M³
Total dust	50	15mg/M³

NOTE: Conversion factors—
mppcf×35.3=million particles per cubic meter
=particles per c.c.

[a] Millions of particles per cubic foot of air, based on impinger samples counted by light-field technics.

[f] The percentage of crystalline silica in the formula is the amount determined from air-borne samples, except in those instances in which other methods have been shown to be applicable.

[l] As determined by the membrane filter method at 430×phase contrast magnification.

[e] Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size-selector with the following characteristics:

Aerodynamic diameter (unit density sphere)	Percent passing selector
2	90
2.5	75
3.5	50
5.0	25
10	0

The measurements under this note refer to the use of an AEC instrument. If the respirable fraction of coal dust is determined with a MRE the figure corresponding to that of 2.4 Mg/M³ in the table for coal dust is 4.5 Mg/M³.

[¶7600.8]

§ 1910.1001 Asbestos.

(a) *Definitions.* For the purpose of this section, (1) "Asbestos" includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.

(2) "Asbestos fibers" means asbestos fibers longer than 5 micrometers.

(b) *Permissible exposure to airborne concentrations of asbestos fibers*—(1) *Standard effective July 7, 1972.* The 8-hour time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed five fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the method prescribed in paragraph (e) of this section.

(2) *Standard effective July 1, 1976.* The 8-hour time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed two fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the method prescribed in paragraph (e) of this section.

[¶7600.9]

(3) *Ceiling concentration.* No employee shall be exposed at any time to airborne concentrations of asbestos fibers in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the method prescribed in paragraph (e) of this section.

[¶7601]

(c) *Methods of compliance*—(1) *Engineering methods.* (i) *Engineering controls.* Engineering controls, such as, but not limited to, isolation, enclosure, exhaust ventilation, and dust collection, shall be used to meet the exposure limits prescribed in paragraph (b) of this section.

(ii) *Local exhaust ventilation.* (a) Local exhaust ventilation and dust col-

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NIOSH RECOMMENDED STANDARD -

OCCUPATIONAL EXPOSURE TO CRYSTALLINE SILICA

On November 11, 1974, the National Institute for Occupational Safety and Health (NIOSH) transmitted their recommended standard for occupational exposure to crystalline silica to OSHA. OSHA will now consider these recommendations and the supporting evidence in the Criteria Document and publish a proposed standard in the Federal Register. Written and oral testimony on the proposed regulations will be received by OSHA and a final version of the regulation will then be promulgated.

The proposed standard is intended to protect the worker from "adverse effects of silica exposure for up to a 10-hour workday, 40-hour workweek, over a working lifetime." Crystalline silica includes the common minerals, quartz, tridymite, and cristobalite, plus microcrystalline silica and also materials containing minute grams of free silica cemented together with amorphous silica. These include tripoli, flint, chalcedony, agate, onyx, and silica flour. Amorphous silica itself is not included.

An allowable limit of 50 micrograms per cubic meter for a full shift time-weighted average is set. This is approximately one half of the limit presently in force.

"Exposure to free silica" is clearly defined as exposure to levels more than 25 micrograms per cubic meter. The regulations do not apply below this level.

Medical examinations, including X-rays and breathing function tests, are required before exposure to free silica and at least every three years thereafter. Records must be kept for 30 years after termination of employment.