CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

PLAINTIFF'S EXHIBIT USM159

001554

BUREAU OF BUILDING INSPECTION

RM. 202, 450 McALLISTER
SAN FRANCISCO
CALIFORNIA 94102

November 20, 1970

Board of Examiners
Interim Asbestos Regulations
Effective January 4, 1971

Asbestos Hazards Mailing List:

Gentlemen:

On November 10, 1970, the Board of Examiners held the latest of a series of meetings on the hazard of asbestos in building construction. The Board considered the proposed draft of regulations prepared by the Bureau of Building Inspection following previous hearings as well as testimony given at the latest hearing.

At the conclusion of the November 10 hearing, the Board adopted the interim regulations shown on the Attachment No. 1. The Board urged all those affected to contact the Superintendent of Building Inspection within 15 days of the date of issuance of these regulations if they contain errors, ambiguity or impracticable provisions.

Pending any serious deficiency necessitating further Board consideration, these interim regulations shall become fully effective for all permits filed for subsequent to January 4, 1971.

Any material not conforming to the interim regulations will not be considered as approved materials and all outstanding approvals for same will be considered as suspended and not to be used after January 4, 1971 on applications filed thereafter.

All manufacturers, or their representatives, shall submit the required qualification test data prior to December 22, 1970, so that the data can be reviewed and to enable the specific fireproofing material to be used on jobs for which permits are filed for after January 4, 1971.

Those manufacturers or their representatives having non-asbestos containing fireproofing materials and who are desirous of having these materials reviewed by the Bureau of Building Inspection are reminded that the minimum data outlined in Attachment No. 2 is provided.

Your cooperation with regard this regulation is requested so that the enforcement of same will create the least amount of problems to the construction industry.

Very truly yours,

Alfred Goldberg, Superintendent
Bureau of Building Inspection

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Attachments
cc: Supervisor Robert H. Mendelsohn

ATTACHMENT I

INTERIM ASBESTOS REGULATIONS

EFFECTIVE JANUARY 4, 1971

The following interim regulations shall become effective January 4, 1971. These regulations are based upon the limited data available, which data however indicates that there is a definite hazard to the general public and more specifically to the workmen using or in the proximity of asbestos spraying operations. While we may not know the exact levels of exposure that should be considered as serious health hazards we do know that certain levels should not be exceeded without jeopardy to the public.

ASBESTOS SPRAYING GUIDELINES

A. A material and the enclosure and application methods used therewith shall be prequalified and approved by this Bureau. Any material not prequalified shall be prohibited from installation on jobs for which applications are filed on or after January 4, 1971.

A material, enclosure and application methods shall be considered as prequalified when all the following criteria have been met, the data furnished the Superintendent of Building Inspection and approved by him:

1. Tests of the asbestos fiber concentration in the air, resulting from spray application of asbestos containing products, shall be made by an independent agency with experience and knowledge of the techniques of said measurements. The test procedure shall be that of the U.S. Public Health Service using membrane filters-light contrast technique. The sampling time for the various maximum acceptable levels of Item 4 shall be:

   Acceptable level - 5,000 fibers per liter - 10 minute sampling time

   Acceptable level - 1,000 fibers per liter - 30 minute sampling time

   Acceptable level - 100 fibers per liter - 2 hours sampling time

2. Tests shall at least be made and reported for the following locations on the job:

   a. Spray application area - direct vicinity of application.

      Breathing Zone measurements
      - at 5-foot height above floor below application.
      - in proximity of mixing operation.

   b. Work areas on same floor as application in progress.

   c. Work areas on floors above and below application in progress.

   d. In vicinity of building at street level, upwind and downwind of building.

   e. Immediately outside of windbreak around spray area; downwind.

3. Test conditions shall be typical of the spray operation and shall be described as to the following characteristics:

   a. Type and effectiveness of enclosure where asbestos is being sprayed and/or mixed.

   b. Enclosure of stairs, shafts and other opening to adjacent floors.

   c. Method employed for clean-up and removal of surplus material.

   d. Protective equipment on workers in area.

   e. Wind velocity at sample point.

   f. Wind velocity outside of building.

   g. Floor of sampling, height above ground.

   h. Approximate distance to nearest adjacent building.

   i. Approximate height of nearest adjacent building.

The following is a copy of the Division of Industrial Safety, October 2, 1970 regulations:

"1. An effective means to enclose areas where asbestos is being sprayed shall be provided.

2. All workers in the enclosed area shall be provided with and use fresh-air supplied hoods, or equivalent, in asbestos contaminated areas.

   a. When the workmen use the fresh-air supplied hoods, the maximum amount of air pressure supplied to the hoods is limited to the maximum air pressure specified for the hood equipment with a minimum air pressure to assure a steady and continuous outward flow of air from the apparatus.

   b. The U. S. Bureau of Mines' approved respirators used with head protection which will keep the falling asbestos material off the workers' head area are considered equivalent and are acceptable.

   c. Self-contained hoods are also considered equivalent and are acceptable.

3. Material containing asbestos which falls to the floor or accumulates on other surfaces must be cleaned up as the job progresses. This is best accomplished by keeping floors wet and handling only wet material. After it has been shoveled up, floors must be washed and scrubbed where practical. Where wet cleaning is not practical, a suitable dry industrial vacuum cleaner may be used.

4. The waste asbestos shall be stored only in labeled closed containers until disposed of."

Further provided that in Item 2.a, the air supply shall be of filtered air uncontaminated from asbestos spraying operations.

In Item 2.b, the U. S. Bureau of Mines respirator shall be approved by that agency for use for protection against pneumonia producing dusts.

Alfred Goldberg

Alfred Goldberg, Superintendent
Bureau of Building Inspection

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ATTACHMENT 2

QUALIFICATION TEST DATA

A. Damageability Tests - three samples fully in conformance with the Bureau test standard and with notarized copies of the weights of the samples and the sample material identified per Underwriters' Laboratories, Inc. approvals.

B. Underwriters' Laboratories, Inc. test reports for each approval desired.

C. Letter of request, to the Superintendent, Bureau of Building Inspection, providing the following:

1. Request for specific approvals desired.

2. Substantiating Underwriters' Laboratory, Inc. report number (not the design number).

3. Outline of the details of the specific assembly construction as it is desired in the approval requested.

4. Dry density of the tested material for each assembly based upon substantiating test.

5. Thickness of fireproofing of each requested assembly together with beam or column size and weight.

6. Time at which tested assembly reached 1000°F. average on any test section, 1200°F. maximum at any point on member.

7. Degree of fall-off, if any, of fireproofing from assembly.

Alfred Goldberg

Alfred Goldberg, Superintendent
Bureau of Building Inspection

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