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Operating Division
GENERAL ORDER

ELIMINATION OF DUSTY CONDITIONS

No. 2-5

Date 2-11-54

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Approved: *EWDK*

Cancels Page 1

Dated 8-24-43

ENGINEERING

Installations of operating equipment in all plants shall be so designed and installed as to meet or exceed any state requirement on ventilation and dust control. The Works Manager shall immediately notify his Production Manager in the event of any non-compliance of ventilation or dust control laws, outlining his recommendations for changes in equipment or design or methods necessary for full compliance with the state or local regulations.

Where the control of dust is impossible with existing plant facilities, authority request for dust-collecting equipment shall be prepared and submitted to the Production Manager.

REQUIRED PRECAUTIONS

Works Managers shall ascertain that the following precautions are taken to eliminate or prevent extremely dusty conditions and shall likewise avoid employment of individuals previously exposed to hazardous dust concentrations:

Adequate ventilation shall be maintained in all work areas. Clean-up work shall be handled in a manner which will not greatly increase dust concentration.

Dust-collecting equipment shall be regularly inspected and maintained following instructions issued by the manufacturer. Such equipment, when installed, shall be of such capacity as to control the maximum anticipated concentrations of dust.

Bates packers shall be kept tight and, if necessary equipped with hood and collector.

Conveying, elevating and mixing equipment shall be so maintained that they are not sources of excessive dust.

Buhr stone dressing operations shall be provided with adequate equipment for removing dust at point of operation. The collector shall be of a type which provides suction at the dressing tool and removes the dust from the surface of the stone. The dust drawn into the collector must be discharged into an arrestor. Workmen engaged in dressing of buhr stones are required to wear goggles and respirators.

Asbestos Exposure

Operations involving manual handling of asbestos in any plant shall be considered in an area in which employees shall be required to wear adequate respiratory equipment.

Pre-Employment Physical Examinations

Before any applicant for employment is hired, the history of his previous employment should be fully developed. If there is a questionable history of exposure to asbestos or an indicated partial lung disability such as tuberculosis, the applicant shall not be employed in any plant until he satisfactorily passes an X-ray examination.

The occupational history of all applicants for employment should be fully recorded on Employment Data and Application Card, Form 1614 - 12/52 Revised, for all applicants hired.

RESPIRATORS

Only respirators approved by the United States Bureau of Mines may be purchased and used for protection against injurious dusts. In other locations it may be well to provide Martindale Protective Masks to employees to minimize the inhalation of nuisance dusts.

Employees exposed to high concentrations of dust on infrequent jobs such as mixer clean out, screen retarder, sweeping or cleaning under very dusty conditions, etc., shall be required to wear an approved filter-type respirator.

A complete list of such respirators, entitled "List of Respiratory Protective Devices Approved by Bureau of Mines", Information Circular No. 7636, is available at no cost from the United States Department of Interior Bureau of Mines, Washington, D. C.

Care of Respirators

Respirators shall not be interchanged among employees and shall be washed and sterilized by one of the following methods before reissue to the same employee: (NOTE: Remove filter units before sterilizing and washing.)

1. Immerse respirator in a 1-to-2-per cent solution of creosol. Rinse thoroughly and allow to dry.

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PLAINTIFF'S
EXHIBIT

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2. Immerse respirator in alcohol in strength of 75% or more. Avoid alcohol that is denatured with poisonous or irritating substances, unless the respirator is thoroughly rinsed after sterilizing.
3. Place the respirator in a moist atmosphere of antiseptic gas, such as formaldehyde. This must be done in a tight cabinet.
4. Immerse respirator for 10 minutes in a solution of Formalin, then rinse. The solution can be made by mixing 1 part of 40% formaldehyde in 9 parts of water.
5. Immerse respirator in boiling water or live steam for 5 minutes. (NOTE: Repeated immersions in boiling water or steam will harden rubber parts of the respirator.)

Prior to sterilizing the respirators, it is well to wash the rubber and metal parts with soap, brush and warm water and rinse thoroughly.

EXPLOSIVE DUSTS

Dust which has an explosion or flash fire potential such as coal, wood, paper, starch, etc., shall be adequately controlled, arrested and removed to eliminate or minimize the possibility of an explosion or flash fire. Refer all questions concerning explosive dusts and their control to Department 186 - Tax and Property Department, Chicago Office.