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SILICA EXPOSURE CONTROL PLAN WE DON'T GET SILLY ABOUT SILICA SAFETY.

In an effort to limit employee-owner exposure to respirable silica,

supervisors must plan tasks and training to meet OSHA standards §CFR1926.1153(k) Respirable Silica and §CFR 1910.1200 Hazard Communication Standard. Exposure tasks may include: using masonry saws, grinders, drills, jackhammers, handheld powered chipping tools, operating vehicle-mounted drilling rigs, milling, operating crushing machines, and using heavy equipment for demolition tasks. Table 1 of the OSHA Standard, lists 18 silica-generating tasks

Provided Employee-owners follow the requirements outlined in Table 1 of the OSHA Standard, it may be assumed that their work falls below the permissible exposure limit. Employee-owners who DO NOT follow the requirements outlined in Table 1, will be required to measure their exposure to silica

and independently decide which dust controls work best to limit

exposures to the permissible exposure limits in the workplace. It

is the Company's responsibility to ensure exposure limits are not

exceeded in the workplace.

along with specific engineering controls and respirator requirements.

Regardless of which exposure control method is used, all employeeowners covered by the standard are required to: • Establish and implement a Silica Exposure Control Plan that identifies tasks that involve exposure and methods used to

protect employee-owners, including procedures to restrict

access to work areas where high exposures may occur. Designate a Competent Person to implement the Silica Exposure Control Plan and train employee-owners on work operations that result in silica exposure and ways to limit the exposure.

to silica where feasible alternatives are available.

• Offer medical exams, including chest X-rays and lung function tests, every three years for employee-owners who are required by the standard to wear a respirator for thirty (30) or more days per year and keep records of employee-owners silica exposure

Restrict housekeeping practices that expose employee-owners

and medical exams. This Silica Exposure Control Plan has been developed to reduce **Respirable Crystalline Silica (RCS)** exposures on jobsites that are created from tasks that include but are not limited to mixing of RCS-containing materials, concrete saw cutting, jack hammering,

concrete coring, rock crushing, concrete drilling, and numerous other

activities included on OSHA Table 1 in §29 CFR 1926.1153(c). No employee-owner is allowed to be exposed to an airborne concentration of RCS in excess of 50 ug/m3 calculated as an 8-hour Time Weighted Average (TWA). The action level of RCS is the concentration of airborne respirable (breathable) crystalline silica of 25 ug/m3 (micrograms per cubic meter). Crystalline silica is a basic component of soil, sand, granite, and many other minerals. Quartz is

the most common form of crystalline silica. Cristobalite and tridymite are two other forms of crystalline silica. All three forms may become respirable size particles when employee-owners chip, cut, drill, or grind objects that contain crystalline silica. **ROLES AND RESPONSIBILITIES Project Supervision** Project supervision will be responsible for implementing the Silica Exposure Control Plan. • Perform audits of the jobsite to ensure compliance with the Silica Exposure Control Plan.

Competent Person(s) Make frequent and regular inspections of jobsites, materials,

feedback on RCS compliance.

equipment (PPE) at all times.

Employee-owners Utilize control methods and PPE as designed to protect from RCS exposure.

Provide the Competent Person(s) and project supervision with

and equipment to implement this Silica Exposure Control Plan.

Report to the Competent Person(s) and project supervision any RCS exposure hazards discovered on the jobsite.

implemented.

RCS Control Methods

measures for tasks.

PROCEDURES General Requirements Employee-owners exposed to airborne RCS shall be protected

by both engineering controls and/or proper personal protective

 Please refer to common control methods listed in OSHA Silica Standard Resource - Table 1, available in the resources within this section, for work tasks and control methods to be

Jobsites shall designate a Competent Person.

 The Competent Person for each jobsite shall evaluate the potential RCS exposure and implement proper control

Control Measures listed in Table 1 are a minimum requirement to be implemented. + Tasks not listed in Table 1 need to be reviewed by the Safety

Manager, or their designee. If control measures are not listed in Table 1, air sampling may need to be obtained. To limit exposure to RCS the following items must be implemented to reduce the exposure to airborne RCS: + Wet methods, which involve applying water at a flow rate

include, but are not limited to the following:

cutting operations

source is unavailable

MERV-16 or better).

sufficient to minimize the release of visible dust. Examples

» Attaching a water hose to a cut-off saw during concrete

» A dust suppression system is used when a public water

» Water suppression during jackhammering/demolition operations » Water use during road sweeping operations + Working inside an enclosed cab

» Enclosed cabs should have properly functioning doors,

» Cabs must also be as free as possible of settled dust.

gaskets/seals in good condition, and air filters (rated at

» Tools with the dust collection system. » Wearing of personal protective equipment.

Do not dry sweep or dry brush where the activity could

likelihood of airborne exposure are not feasible.

 Cleaning with compressed air will not be permitted unless the compressed air is used in conjunction with a ventilation system

that effectively captures airborne RCS or if no alternative

Access will be restricted to work areas where potential silica

dust exposure is present by the use of barricading systems

contribute to airborne exposure to RCS unless wet sweeping,

HEPA filtered vacuuming, or other methods that minimize the

including signage or tags identifying the hazard within the barricaded area.

Restriction to Work Areas

method is feasible.

Housekeeping Measures

Medical Surveillance Medical surveillance will be made available at no cost for each employee-owner who will be required to use a respirator for thirty (30) or more days per year. Medical surveillance will be in compliance with §29 CFR 1926.1153(h).

- **Training** Training on RCS will be provided to employee-owners involved in tasks that may produce RCS.
 - + Health hazards associated with silica exposure + Tasks in the workplace that could result in silica exposure

Training will include the following:

control method.

- + Protective measures to protect employee-owners from silica exposure including engineering controls, work practices, and respiratory protection
 - + The identity of the Competent Person(s) + The purpose and a description of the medical surveillance