

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. The Contractor shall perform all planning, administration, execution, and cleaning necessary to safely remove, dispose and/or handle the regulated materials listed within this Section.

1.2 RELATED WORK (NOT USED)

1.3 WORK INCLUDED

- A. The Contractor shall supply all labor, equipment, notifications, services, insurance, special permits, and equipment necessary for the following regulated materials:
 - 1. Silica and Fugitive Dust
 - a. All Construction work will potentially generate fugitive dust. It is the responsibility of the Contractor to control the release of all fugitive dust.
 - b. Construction site work that requires control of silica and fugitive dust shall include chipping, sanding, sawing, jack hammering, drilling, and grinding concrete and gypsum materials.
- B. Damages caused during the performance of abatement or remediation activities shall be repaired by the Contractor (including, but not limited to, paint peeled off by barrier tape, nail holes, water damage, broken glass) at no additional cost to the Owner.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Polyethylene Sheet: Provide flame-retardant polyethylene film that conforms to requirements set forth by the NFPA Standard 701 (Small Scale Fire Test for Retardant Textiles and Films). Provide 6-mil thick, frosted or black TRM Manufacturing Brand, or equivalent, of the largest size practicable to minimize seams.
- B. Reinforced Polyethylene Sheet: Provide translucent, nylon reinforced, laminated, flame-retardant polyethylene film that conforms to requirements set forth by NFPA Standard 701. Provide 6-mil thick Permalon Brand, or equivalent, of the largest size practicable to minimize seams.
- C. Duct Tape: Provide duct tape with an adhesive that is formulated to stick securely to sheet polyethylene, Nashua Brand or equivalent. Do not use polyethylene tape.
- D. Painters Tape: Provide painters tape, Shurtape brand or 3M Scotch or equivalent. To be used in locations where there may be damage to wall finishes.
- E. Spray Cement: Provide spray adhesive in aerosol cans that is specifically formulated to stick securely to sheet polyethylene, Abatement Technologies, AS-100, or equivalent. Contractor shall not use spray cement containing methylene chloride.
- F. Lumber: Provide kiln dried, fire-retardant lumber and plywood, in accordance with ASTM D245.
- G. Other Materials: Provide all other materials, such as lumber, nails, and hardware that may be required to construct work platforms, decontamination units, and the barriers that isolate the Work Area(s).

2.2 EQUIPMENT

A. HEPA Filter Vacuum Cleaners:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:

- a. Nilfisk of America, Inc. HEPA Filtered Vacuums
300 Technology Drive
Malvern, PA 19355
(610) 647-6420
- b. Minuteman International Minuteman HEPA Vacuums
14N845 U.S. Route 20
Pinegree, IL 60140
(800) 323-9420
- c. Pullman-Holt (White) Corp. HEPA Filtered Vacuums
10702 N. 46th Street
Tampa, FL 33617
(813) 971-6090

B. HEPA Filtered Fan Units: Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:

1. The following machines are standard 2000 CFM machines.

- a. Aerospace America, Inc. "Aero-Clean 2000"
900 Truman Parkway
P.O. Box 189
Bay City, Michigan 48707
(517) 684-2121
- b. Abatement Technologies "HEPA-AIRE 1990 and HEPA-AIRE 2000"
3305 Breckinridge Blvd. #118
Deluth, GA 30136
(800) 634-9091 or (404) 925-2761
- c. Global Consumer Services, Inc.
4615-1U E. Industrial St.
Simi Valley, CA 93063
(805) 579-0230
- d. M-Tec Corp. Micro-Trap
1300 W. Steel Rd. Alumina II
Unit #2
Morrisville, PA 19067
(215) 295-8208

C. Manometer: With a built-in alarm and continuous hard copy readout to continuously monitor pressure differential between the Work Area and outside areas. This shall be a non-mercury device. This shall be accurate to the nearest 0.005 inches of water.

D. Scaffolding: Provide all scaffolding, ladders, and staging, etc., as necessary to accomplish the Work of this Contract. The type, erection, and use of all scaffolding shall comply with all applicable DOSH and OSHA provisions. No workers shall remain on rolling scaffolding as it is being moved; the wheels shall be locked when workers are climbing the scaffolding or working from the platform.

E. Communication equipment suitable for inter-room communications, if required.

F. Holding Carts: Watertight wheeled carts with doors or tops that can be closed and secured.

PART 3 - EXECUTION

3.1 SILICA AND FUGITIVE DUST

- A. Construction work will potentially generate fugitive dust. It is the responsibility of the Contractor to control the release of all fugitive dust.
- B. Construction site work that requires control of silica and fugitive dust shall include chipping, sanding, sawing, jack hammering, drilling, and grinding on concrete and gypsum building materials associated with this work.
- C. Furnish all labor, materials, facilities, equipment, services, employee training and testing, and agreements necessary to perform the work required for fugitive dust and potential silica-generating construction dust control activities in accordance with the latest regulations from the State of Washington Department of Labor and Industries' Division of Occupational Safety and Health (DOSH), Puget Sound Clean Air Agency (PSCAA), and other applicable federal, state, and local government regulations.
- D. Competent persons, trained, knowledgeable and qualified in both fugitive and silica dust evaluation and control methods, shall perform the Work specified herein.
- E. In all cases where potential silica dust exposures may occur, the Contractor shall use any and all feasible engineering and work practice controls to reduce and maintain employee exposure below the Washington State Permissible Exposure Level. It shall be assumed that the workers generating the silica dust are exposed above the Permissible Exposure Level until Contractor air monitoring data demonstrates silica concentrations below the Permissible Exposure Level.
- F. Controls shall be implemented to contain dust generated during demolition of walls, concrete sawing, coring, chipping, etc. At no time will any dust from the work area be permitted beyond the "Limit of the Work Area" as stated in the contract and/or as established by the Contractor. Visible emissions will be grounds for Environmental Consultant or Owner to request that work practices be stopped and revised.
- G. When wet sawing or coring concrete, the water shall be cleaned and vacuumed prior to drying. If dust remains after the area dries, the Contractor shall use wet methods to clean residual dust.
- H. If visible fugitive dust emissions or respirable crystalline silica dust concentrations exceed 0.05 mg/m³ beyond the perimeter of the work area, the Owner is authorized to stop work. The Contractor shall perform all necessary corrective actions to eliminate visible dust and reduce respirable crystalline silica concentrations to less than 0.05 mg/m³ before resuming work. The Owner may visually monitor for fugitive dust and collect air samples for silica at any time.

END OF SECTION