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shut down and the work area shall be wet cleaned or HEPA vacuumed until the area air samples indicate the fiber concentration is below the determinant level. If fiber concentrations remain above the determinant level for longer than 24 hours, isolation barriers and engineering controls shall be installed and maintained.

(b) *Clearance and/or reoccupancy criteria.* (1) The clearance criteria shall be applied to each homogeneous work area independently.

(2) For PCM analysis involved in alteration or renovation projects, the clearance air monitoring shall be considered satisfactory when every sample is less than or equal to 0.01 f/cc or less than the ambient concentration, whichever is larger.

(3) For PCM analysis involved in pre-demolition abatement activities, the clearance air monitoring shall be considered satisfactory when every sample is less than or equal to 0.05 f/cc or less than the ambient concentration whichever is larger.

(4) For TEM analysis, the clearance monitoring will be considered satisfactory if conducted in accordance with 40 CFR Part 763, Subpart E, Appendix A — Section IV— Mandatory Interpretation of Transmission Electron Microscopy Results to Determine Completion of Response Actions.

(5) Clearance air monitoring results shall be submitted directly to the Department within 24 hours of request.

Subchapter E

Personnel Protection and Equipment Specifications

1 **Worker Protection**

2 **Equipment Specifications**

Part 1

Worker Protection

§1-51 Worker Protection Requirements

§1-51 Worker Protection Requirements. (a) Prior to project initiation, all workers engaged in abatement activities on an asbestos project or minor project must be certified by DEP.

(b) At least one asbestos handler supervisor shall be present at the work site while abatement activities are being conducted on an asbestos project.

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(c) Personal protective equipment shall be worn by all individuals inside the work place during abatement activities, except that gloves need not be worn during those work place preparation activities which do not involve the disturbance of ACM.

Personal protective equipment shall meet the following specifications:

(1) Disposable clothing including head, hand, foot and full body protection shall be provided by the contractor in sufficient quantities and adequate sizes for all workers and authorized visitors.

(2) Hard hats, protective eyewear, gloves, rubber boots and/or other footwear shall be provided by the contractor as required for workers and authorized visitors. Safety shoes and hard hats shall be in accordance with ANSI Z89.1 (1969) and ANSI Z41.1 (1967).

(3) Contaminated clothing shall be sealed in impermeable bags and the bags shall be appropriately labeled.

(d) Personal air monitoring shall be performed in accordance with OSHA standards, 29 CFR 1926.58(f). Such records shall be made available to any authorized Department inspector upon request.

(e) Personal Hygiene at the work site shall meet the following requirements:

(1) There shall be no smoking, eating, drinking or chewing of gum or tobacco or application of cosmetics inside the work place.

(2) Jewelry shall not be worn in contaminated areas.

(3) The contractor shall provide clean change areas for the workers. Change areas shall be equipped with separate storage facilities for protective clothing and street clothing.

(4) If lunch areas are provided, they shall be located outside the work place in an area in which the airborne concentrations are below 0.01 f/cc.

(f) The contractor shall have available the following information in the clean room(s) at the work site:

(1) A copy of the U.S. Environmental Protection Agency Regulations for Asbestos, 40 CFR 61 Subparts A and M and a copy of OSHA Asbestos Regulations, 29 CFR 1926.58, and

(2) A list of telephone numbers for local hospital, location of hospital and/or emergency squad, local fire department, the building owner (or

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representive) and the N.Y.C. Asbestos Control Program, and

(3) A copy of these Rules, the most recent Asbestos Inspection Report (Form ACP 7) filed including amendments, any variance application (Form ACP 9) and DEP approval thereof, and

(4) A copy of all Material Safety Data Sheets (MSDS) for hazardous chemicals used during the asbestos project, and

(5) New York City Asbestos handler and supervisor certificates of all workers in the work site, and

(6) A copy of the current New York State Department of Labor asbestos handling license of the contractor.

(g) The contractor shall post signs during all abatement activities. Signs shall be posted at all approaches to the work place including internal doorways which provide access to the work place. These signs shall bear the following information:

DANGER
ASBESTOS CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

(h) Warning labels shall be affixed to all waste containers containing asbestos material in and shall bear the following information:



Part 2

Equipment Specifications

§1-61 Materials and Equipment

§1-61 Materials and Equipment. The materials and equipment used during all abatement activities shall conform with the following:

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(j) The bagged waste shall be wet cleaned or HEPA vacuumed and then transferred outside the tent, double bagged, and appropriately handled prior to disposal.

(k) The outer disposable suit (if 2 suits are worn) shall be removed and remain in the tent upon exiting. Following tent disposal and work site cleanup the workers shall immediately proceed to a shower at the work site. The inner disposable suit and respirator shall be removed in the shower after appropriate wetting. The disposable clothing shall be disposed of as asbestos-containing waste material. The workers shall then fully and vigorously shower with supplied liquid bath soap, shampoo, and clean dry towels.

(l) The negative pressure ventilation equipment shall be used to filter a minimum of 6 volume changes through the tent after completion of abatement but prior to collapse of the tent/barrier. All required air monitoring must be successfully completed before the tent/barrier is collapsed.

(m) The tent shall be collapsed inward, enclosing the contaminated clothing. This contaminated material shall be disposed of in another plastic bag. The HEPA vacuum shall be decontaminated and sealed.

Part 5

Clean-up Procedures

§1-111 Preliminary Clean-up Procedures
§1-112 Additional Clean-up Procedures (Final)

§1-111 Preliminary Clean-up Procedures. The following clean-up requirements shall be followed during the conduct of abatement activities on large asbestos projects:

(a) (1) Visible accumulations of loose asbestos-containing waste material shall be cleaned up:

(i) whenever sufficient asbestos-containing waste material to fill a single leak-tight container of the type commensurate with the properties of asbestos-containing waste material has been removed, or

(ii) at the end of each work shift, whichever shall occur first. Visible material shall be maintained wet until cleaned up.

(2) Visible accumulations of asbestos-containing waste material shall be containerized utilizing non-metallic dust pans and non-metallic squeegees or HEPA vacuums.

(3) Metal shovels shall not be used to pick up or move accumulated asbestos-

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containing waste material or any other debris in the vicinity of isolation or surface barriers.

(b) Accumulations of dust shall be cleaned off all surfaces of the work area on a daily basis, using HEPA vacuum or wet cleaning methods.

(c) The waste decontamination enclosure system shall be wet cleaned twice using wet cleaning methods upon completion of waste removal. When the worker decontamination enclosure shower room alternates as a waste container wash room, the shower room shall be washed immediately with cloths or mops saturated with a detergent solution prior to wet cleaning.

(d) The worker decontamination enclosure system shall be wet cleaned/HEPA vacuumed, as appropriate, after each shift change and meal break.

(e) Excessive water accumulation or flooding in the work area shall require work to stop until the water is collected and disposed of properly.

(f) Spillage of asbestos-containing waste material in an elevator shaft shall require:

(1) immediate evacuation, shut down and isolation of all elevators in the affected elevator bank, and

(2) containerization of all spilled visible accumulations of asbestos-containing waste material from within the elevator car and shaft, and

(3) HEPA vacuuming/wet cleaning of the contaminated surfaces in the elevator car and shaft in repetitive cycles until clearance air levels are achieved, and

(4) one air sample to be taken at each terminus of the shaft to be analyzed by PCM on a continuing basis until clearance air levels are achieved.

§1-112 Additional Clean-up Procedures (Final). Additional clean-up procedures shall be performed in the order set forth below prior to commencement of clearance air monitoring.

(a) After removal of visible accumulations of asbestos-containing waste material, a HEPA vacuuming shall be performed on all surfaces. To pick up excess water and gross saturated debris, a wet-dry shop HEPA vacuum, dedicated to asbestos abatement, may be used.

(b) All surfaces in the work area shall be wet cleaned (first cleaning).

(c) The cleaned layer of the surface barriers shall be removed from walls and floors. The isolation barriers shall remain in place throughout cleanup. Decontamination enclosure systems shall remain in place and be utilized.

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(d) After the first cleaning, the work area shall be vacated for 12 hours to allow fibers to settle. Then, all objects and surfaces in the work area shall be HEPA vacuumed and wet cleaned a second time. The remaining plastic surface barriers shall be removed, while the isolation barriers shall remain in position.

(e) After the second cleaning, the work area shall be vacated for 4 hours before wet cleaning and/or HEPA vacuuming all surfaces in the work area for a third cleaning.

(f) As a prerequisite to commencement of clearance air monitoring, a thorough visual inspection shall verify the absence of asbestos-containing waste material (e.g. dust).

(g) All containerized waste shall be removed from the work area through the decontamination enclosures and the holding area.

(h) All tools and equipment shall be removed from the work area and decontaminated in the waste decontamination enclosure system. Cloths, mops, and other cleaning aids shall be disposed of as asbestos-containing waste material.

(i) After successful clearance air monitoring (see §1-31 et seq.), the isolation barriers shall be removed in conjunction with the use of a HEPA vacuum.

Subchapter G

Pre-Demolition Abatement Activity Procedures

1 Applicability
2 Work Procedures

Part 1

Applicability

§1-120 Applicability of Regulations to Pre-Demolition Abatement Activities

§1-120 **Applicability of Regulations to Pre-Demolition Abatement Activities.** The following regulations shall apply to pre-demolition abatement activities:

§§1-01 through 1-61	General Regulations
1-82	Worker Decontamination Enclosure System
1-83	Waste Decontamination Enclosure System
1-91 through 1-94	Work Place Procedures
1-102	ACM Disturbance. Handling and Removal Procedures
1-105	Glovebag Procedure
1-106	Tent Procedure

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