No: MC-01

SUBMITTAL COVERSHEET
Nanuet UFSD –Phase 3 Projects

Architect:
KSQ Architects
215 W 40th Street,15th Floor
New York, NY 10018

Owner:
Nanuet Union Free School District
101 Church Street
Nanuet, NY 10954

Construction Manager:
Jacobs
One Penn Plaza, 54th floor
New York, NY 10019

Contractor: Joe Lombardo Plumbing & Heating of Rockland Inc

Contract: Ron Lombardo

Address: 321 Spook Rock Road Suite 109A
Suffern, New York 10901

Telephone: 845-357-6537

Fax: 845-357-8529

School Name: Nanuet Union Free School District Phase 3 Bond Projects @ Barr Middle School & Nanuet High School

Type of Submittal:

Re-submittal: [ ] No [ ] Yes

[ ] Shop Drawings [ ] Product Data [ ] Schedule [ ] Sample [ ] _____
[ ] Test Report [ ] Certificate [ ] Color Sample [ ] Warranty [ ] _____

Submittal Description:

Product Name: asebestos abatment - barr ms REVISED #1

Manufacturer:

Subcontractor/ Supplier:

References:

Spec. Section No.: 028200

Drawing No(s):

Paragraph:

Rm. or Detail No(s):

Architect's/ Engineer's Review Stamp	Contractor Review Statement:
Reviewed by QuES&T - No Exceptions taken QuES&T Quality Environmental Solutions & Technologies, Inc. 1376 Route 9, Wappingers Falls, NY 12590 2-8-24	These documents have been checked for accuracy and coordinated with job conditions and Contract requirements by this office and have been found to comply with the provisions of the Contract Documents. Ronald J. Lombardo 1-15-24 Name: Date: Company Name: Joe Lombardo Plumbing & Heating of Rockland Inc.

Remarks:

NSC Abatement Services Inc.

122 East 3rd Street Mount Vernon NY. 10550

Tel. (914) 668-4111 Fax. (914) 668-4112

List of Owned Equipment for Project

- 2 16' Box Truck
- 1 Cargo Trailer
- 2 Mobile Decontamination Unit
- 40 2000 CFM Air Filtration Devices (Large Capacity Negative Air Machines)
- 10 600 CFM Air Filtration Devices (Small Capacity Negative Air Machines)
- 25 HEPA Vacuums
- 15 Personal and Waste Decontamination Units
- 10 Water filtration units
- 20 Portable showers
- 2 Airless Sprayers
- Pump-up Sprayers
- Assorted Hand Tools
- 60 Floor Scrapers
- 2 Roof cutters
- 15 Elec. Drills
- 4 Cordless Drills
- 12 SawZalls
- 8 Circular Saws
- 30 Half Face Respirators / 12 PAPR Respirators
- 40 Pcs. Pipe Scaffolding / 4 Bakers
- 18 Life Lines
- 24 Ladders (assorted sizes 4ft through 12ft, & extension ladders)
- 14 Hand Carts (1cu/yd).
- 3 Generators
- 8 Chipping Guns
- Assorted Drop Lights, Flood Lights, Electrical Cords & GFCI's
- 4 Roof Debris Chutes

NSC Abatement Services Inc.

122 East 3rd Street Mount Vernon NY 10550
Tel. (914) 668-4111 Fax. (914) 668-4112

TUESDAY, 01/09/24

A.)

- 4. - NSC Abatement Services, Inc. was incorporated in March of 1999 and has been actively engaged in the field of asbestos abatement since that time.

B.)

- 1. - NSC Abatement has not received any citations, violations, had any criminal charges or legal proceedings brought against by any law enforcement, regulatory agency, or consultant regarding performance on past asbestos abatement contracted projects.
- 2. - Neither our firm, nor agents on behalf of the firm, have been issued any Stop Work Orders on any projects within the last 2 years.
- 3. - Our firm has not been a party to any litigations or arbitrations regarding performance on past asbestos abatement contracted projects.
- 4. - Our firm has no liquidated damages assessed within the last two years.

THE STATE OF New York
COUNTY OF Queens

On the 9th day of January in the year 2024 before me, the undersigned, personally appeared Kevin Fox (Sr. Project Mgr.) personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public Signature: William E. Damon
Print: WILLIAM E. DAMON
My Commission Expires: 12/08/2026

WILLIAM E. DAMON
Notary Public, State of New York
Reg. No. 01DA6316338
Qualified in Queens County
Commission Expires December 8, 2026

NSC Abatement Services Inc.

122 East Third Street, Mount Vernon, NY 10550
Tel. (914) 668-4111 Fax. (914) 668-4112

Major Projects Completed (Past 4 years)

Name: Brookside Elementary School
Owner: Ossining Union Free School District
400 Executive Boulevard
Ossining, NY 10562
Contract Amount: $82,000
Year work was Completed: 2021
Scope of Work: Abatement of ACM Pipe Insulation/Pipe Fittings & Ceiling Tiles.
Contact: Tom Bertussi - (845) 735-5588
Project Manager: Kevin Fox
Project Monitor: Quality Environmental & Solutions Technologies, Inc.
1376 US 9
Wappingers Falls, NY 12590
(845) 298-6031
Status: Complete

Name: Elmwood Country Club
Owner: Capital Industries Corp.
555 Saw Mill River Rd.
Yonkers, NY 10701
Contract Amount: $225,000
Year work was Completed: 2021
Scope of Work: Abatement of ACM Transite Siding, Pipe Insulation, Ceramic Floor Tile Adhesive & Roofing
Contact: Anthony Cianciulli – 914-963-2000
Project Manager: Kevin Fox
Project Monitor: Lawal Environmental
55 East Mosholu Parkway North – Suite 3G
Bronx, NY 10467
(646) 528-0913
Status: Complete

Name: <u>500 Main Street - New Rochelle, NY</u>

Owner: Capital Industries Corp.
555 Saw Mill River Rd.
Yonkers, NY 10701

Contract Amount: $460,000

Year work was Completed: 2021

Scope of Work: Abatement of Duct Insulation, VAT/Mastic, Pipe Insulation, Door Insulation, Window Glazing, Various Adhesives on Floors/Walls & Roofing

Contact: Anthony Cianciulli – 914-963-2000

Project Manager: Kevin Fox

Project Monitor: Environmental Maintenance Contractors Inc.
5 Anderson Lane
Goldens Bridge, NY
(914) 232-7355

Status: Complete

Name: <u>The Renaissance at Lincoln Park</u>

Owner/GC: NRP Group, LLC
1228 Euclid Ave.
Cleveland, OH 44115

Contract Amount: $170,650

Year work was Completed: 2021

Scope of Work: Abatement of VAT/Mastic, Door Caulk, Roofing, Mirror Mastic, Exterior Water Proofing, and Demolition of masonry façade.

Contact: Michael Koenig – (440) 655-4130

Project Manager: Kevin Fox

Project Monitor: Airtek Environmental Corp
39-27 39th St.
New York, NY 11101
(914) 592-8380

Status: Complete

Name: <u>Park Lake Residences</u>
Owner: Metropolitan Realty
60 Cuttermill Rd Suite 200
Great Neck, NY 11021
Contract Amount: $1,200,000
Year work was Completed: 2020
Scope of Work: Abatement of contaminated soil and pipe insulation throughout crawlspaces.
Contact: Stephen Gordon – (347) 829-2190
Project Manager: Kevin Fox
Project Monitor: Lawrence Environmental
108 W. 39th St.
New York, NY 10018
(212) 682-2001
Status: Complete

Name: <u>Middletown School District/Various Schools</u>
Owner/GC: Bertussi's Contracting
60-70 Dexter Plaza
Pearl River, NY 10965
Contract Amount: $537,200
Year work was Completed: 2020
Scope of Work: Abatement of VAT/Mastic, removal of unit ventilators
Contact: Ray Breit – (845) 536-0616
Project Manager: Kevin Fox
Project Monitor: Adelaide Environmental
1511 Rt. 22, Suite C24
Brewster, NY 10509
(845) 278-7710
Status: Complete

Name: <u>Brookfield Commons Apartments</u>
Owner: Trinity Brookfield Commons
75 Federal St.
Boston, MA 02110
Contract Amount: $594,000
Year work was Completed: 2019
Scope of Work: Asbestos abatement of pipe insulation, Window Caulk, Roofing, and VAT/Mastic.
Contact: Robert Stevenson - (914) 963-2000
Project Manager: Kevin Fox
Project Monitor: ALC Environmental
121 W. 27th St.
New York, NY 10001
(212) 675-5544
Status: Complete

Name: <u>Lakeland Central School District Various Schools</u>
Owner: Lakeland Central School District
1086 Main St.
Shrub Oak, NY
Contract Amount: $70,000
Year work was Completed: 2019
Scope of Work: Abatement of pipe insulation, Duct Insulation, Electrical Wiring.
Contact: Ray Breit - (845) 536-0616
Project Manager: Kevin Fox
Project Monitor: Louis Berger
565 Taxter Rd.
Elmsford, NY 10523
(914) 798-3733
Status: Complete

Name: <u>Washingtonville HS</u>
Owner: Washingtonville Central School District
54 West Main St.
Washingtonville, NY 10992
Contract Amount: $350,000
Year work was Completed: 2019
Scope of Work: Abatement of VAT, mastic, & pipe fittings, ceiling tile.
Contact: John Paul Jackson, Arris Contracting – (845) 473-3600
Project Manager: Kevin Fox
Project Monitor: Quality Environmental & Solutions Technologies, Inc.
1376 US 9
Wappingers Falls, NY 12590
(845) 298-6031
Status: Complete

Name: <u>William Cottle ES</u>
Owner: Tuckahoe School District
65 Siwanoy Blvd.
Tuckahoe, NY 10709
Contract Amount: $213,000
Year work was Completed: 2019
Scope of Work: Abatement of Window Caulk, VAT/Mastic, Pipe Insulation.
Contact: Anthony Russo – (914) 337-5376
Project Manager: Kevin Fox
Project Monitor: Omega Environmental Services, Inc.
280 Huyler St.
S. Hackensack, NJ 07606
(201) 489-8700
Status: Complete

Name: <u>Pearl River School District Multiple Schools</u>

Owner: Pearl River School District
135 W. Crooked Hill Rd.
Pearl River, NY 10965

Contract Amount: $355,000

Year work was Completed:2018

Scope of Work: Abatement of Boiler Insulation, VAT/Mastic, Pipe Insulation, Roofing And Boiler Demo.

Contact: Tom Bertussi - (845) 735-5588

Project Manager: Kevin Fox

Project Monitor: Quality Environmental & Solutions Technologies, Inc.
1376 US 9
Wappingers Falls, NY 12590
(845) 298-6031

Status: Complete

WE ARE YOUR DOL

NEW YORK STATE | Department of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

NSC Abatement Services, Inc.
122 East Third Street, Mount Vernon, NY, 10550

License Number: 28759
License Class: FULL
Date of Issue: 07/07/2023
Expiration Date: 07/31/2024
Duly Authorized Representative: Pablo Berhau

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Amy Phillips, Director
For the Commissioner of Labor

NSC Abatement Services Inc.

122 East Third Street, Mount Vernon, N.Y. 10550

Tel. (914) 668-4111 Fax. (914) 668-4112

Standard Operating Procedures

Revised 01/10/2022

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Section I

Respiratory Protection Program

Section I - Respiratory Protection Program

Respiratory protection is the heart of *NSC Abatement Services* health and safety program. *NSC Abatement Services* requires, at a minimum, half-face negative-pressure respiratory protection regardless of available engineering controls.

NSC Abatement Services respirator program ensures that:

- Respirators are regularly inspected and properly maintained.
- Employees are thoroughly trained in the use and care of respirators.
- Records are maintained regarding respirator use, maintenance and training
- Specific responsibilities are assigned to both management and laborers with respect to respirator use and maintenance.

Respirator Selection

NSC Abatement Services requires its employees to wear respirators at all times when working inside the containment or when there is a potential asbestos exposure.

NSC Abatement Services employs the following types of respirators according to various exposure levels:

- Below the PEL: Half-face, negative-pressure, cartridge units equipped with HEPA filters.
- At the PEL: Powered, air-purifying respirator (PAPR) units featuring a positive flow of at least 4 cubic feet of air per minute into the face piece. These units are equipped with HEPA filters.
- Above the PEL: Type-C, supplied-air respirator systems providing Grade-D air through CO monitors for maximum protection.

The capabilities of the various respirators are determined from governmental approvals, manufacturer's tests and ANSI Z 88.2.

Respirators are selected by the safety director and the industrial hygienist based upon the following criteria:

- Physical, chemical and physiological properties of the airborne contamination

- Concentrations of contamination.
- Nature of the work being performed.
- Quality of respirator fit.

Each employee is issued a respirator for that person's exclusive use. Each respirator is identified in a manner, which does not interfere with its performance. Individual fit testing is conducted for each employee.

Inspection & Maintenance

Respirators and related equipment are systematically inspected and maintained to retain their original effectiveness. Users routinely inspect their respirators before and after each use and after each cleaning.

The following components of the respirators are examined:

- Face piece
- Head bands.
- Valves.
- Hoses. Filter cartridge.
- Battery pack (if PAPR).

Respirators with any signs of deterioration, wear, damage, or other conditions that could prevent an airtight fit do not pass inspection and are repaired or replaced immediately.

Cleaning

Employees clean their respirators at the end of the work shift. Employees are thoroughly trained in this procedure, which includes:

- Removing cartridges in half-face and full-face, negative-pressure respirators. These cartridges are treated as asbestos waste and are discarded at the end of his/her work shift or when resistance in breathing occurs.
- Plugging cartridges in PAPR units, which may be re-used until their rated effective life is expired.

- Wearing face pieces into the decontamination shower and thoroughly rinsing under running water to remove all accumulation of debris. Employees thoroughly rub all contours of the face piece with their fingers to dislodge any debris.

- Rinsing in the shower, removing face pieces, washing them in a detergent-disinfectant solution, and rinsing in clean water in a clean area. If necessary, using a brush to scrub the face piece.

- Drying face pieces using either portable dryers or drying racks

- Storing respirators in plastic bags to protect them against dust, sunlight, extreme heat, extreme cold, excessive moisture, or damaging chemicals.

Training

All *NSC Abatement Services* employees are trained in the use and care of respirator equipment. Training is repeated as often as necessary to ensure that all employees remain familiar and competent in the proper use of respirators.

Without exception, all employees receive training in:

- Identifying the physical characteristics of the various kinds of asbestos contamination generated

- Understanding the health implications of exposure to asbestos contamination

- Determining which types of respirator systems are effective against the various types of airborne asbestos contamination.

- Recognizing the intended use and limitations of each type of respirator system.

- Properly wearing, adjusting, and testing respirators for an airtight fit.

- Cleaning and storing the various components of the respirator systems. Step-by-step, hands-on instruction for performing routine respirator inspections.

Additionally, job site Toolbox Safety Meetings are conducted at the beginning of each project, whenever new employees arrive at the job site and at additional times as required by job conditions or duration.

Records

NSC Abatement Services maintains thorough and accurate records of respirator use, as follows:

- The number and types of respirators in use.
- Employee training, including the name of the individual, length of time of training, nature of the training and date of training.
- Medical certification for each employee affirming that the individual is capable of wearing a respirator for the job site conditions normally encountered during asbestos abatement work.
- Fit tests.

Health & Safety Responsibilities

NSC Abatement Services ensures adherence to its respirator program by assigning specific responsibilities to both management and laborers. On most projects, a superintendent is designated as the safety director and is responsible for overall coordination of the health and safety program.

Safety Director

The superintendent appointed to be the project safety director is responsible for:

- Communicating to employees, in a clear and accurate manner, the biological dangers posed by exposure to airborne asbestos contamination.
- Providing employees with respiratory protection appropriate to the project environment.
- Organizing and implementing instruction programs and hands-on training in the use and maintenance of respirators and associated equipment.
- Administering the overall program, including record keeping.

Foreman

Each foreman is responsible for:

- Ensuring that employees are knowledgeable about the dangers of asbestos contamination and the need for adequate respiratory protection.
- Ensuring that employees have an adequate supply of respirators and all required parts and supplies for maintaining the systems.
- Ensuring that employees wear respirators whenever they are inside the containment area.
- Regularly inspecting respirators and related equipment and supplies to ensure that they are in proper operating condition.
- Maintaining, repairing, disinfecting and cleaning all respiratory equipment prior to its issue to employees.

Laborers

Laborers are responsible for:

- Understanding the basic characteristics of asbestos materials and their capacity for releasing invisible asbestos contamination.
- Recognizing the medical consequences of not being protected from breathing asbestos contamination.
- Using an assigned respirator in accordance with instruction and training.
- Daily cleaning, disinfecting and storing the respirator.
- Exercising care with the respirator and related equipment and supplies to avoid causing any damage.
- Wearing a respirator at all times in environments where airborne asbestos contamination is known or expected to be present.

Industrial Hygienist

When applicable, the industrial hygienist is responsible for:

- Providing competent technical assistance in determining which type of respirator is appropriate for the situation.
- Providing periodic surveillance of conditions in the work areas where respirators are in use.
- Periodically evaluating Infinity's respirator program
- Providing educational materials for educating employees about asbestos dangers as well as state-of-the-art respiratory protection.

Section II
Site Management

Section II - Site Management

The experience and qualification of its personnel — from top to bottom — are vital to the success and capability of any asbestos abatement contractor. Through controlled growth and low turnover, we have developed a team of highly skilled and trained asbestos abatement professionals capable of handling the most complex projects.

The founders and senior management all have built successful careers in engineering, construction and hazardous waste management. Our project managers and supervisors have been promoted from within the organization. They are thoroughly indoctrinated in *NSC Abatement Services* corporate commitment to providing quality, on-time service.

Our professional approach to project management enables *NSC Abatement Services* to:

- Respond quickly to client's needs.

- By systematically scheduling projects, monitoring equipment inventory, and maintaining supplies, *NSC Abatement Services* can have crews ready to begin work on a project at a client's convenience --even within hours. This careful management of resources ensures that no time is lost because equipment or supplies are not available.

- Protect clients against health, safety and regulatory issues.

  NSC Abatement Services structured management organization and stringent training requirements ensure that all work is performed according to specification and adheres to safety and quality requirements.

- Protect clients by maintaining accurate project records,

  NSC Abatement Services thorough and systematic project records help to keep each project on schedule and within budget. Moreover, accurate, detailed, and permanent training and health records provide crucial documentation to protect all parties from potential liabilities.

Project Organization

Project responsibilities are as follows:

Executive Project Sponsor

For each project, an executive sponsor sees that *NSC Abatement Services* commitments, as defined in the project contract, are met and that the project complies with *NSC Abatement Services* standards for quality work performed safely and on time.

The executive project sponsor remains responsive to client needs from beginning to end, applying *NSC Abatement Services* resources when necessary to keep the project moving efficiently or to resolve any issues that arise.

Project Manager-Organizational Chart

Kevin Fox-Sr. Project Manager
Tel. # - (914) 920-0326

Paul Cardenas
Tel. # - (718) 270-8700

The project manager is responsible for a project from start to finish. The project manager ensures that personnel and equipment are available when and where needed, oversees project costs and handles negotiations with subcontractors.

The project manager also assures responsive and continuing communication between *NSC Abatement Services* and the client, serving as the client's day-to-day contact. *NSC Abatement Services* assigns only key experienced staff to this position, since good project management is critical to successful project completion. All project managers have extensive backgrounds in asbestos abatement, general construction and hazardous waste management.

Before a project begins, the project manager conducts a kick-off meeting to acquaint the client with all of the *NSC Abatement Services* personnel involved, including the superintendents and, where applicable, the general contractor and industrial hygienist. He also meets with these individuals weekly (or biweekly, as appropriate) to review the status of the project, discuss any problems and maintain a communication channel.

The project manager is the company's liaison with various government agencies. Before a project begins, he notifies any applicable local, state, and regional agencies, including the Environmental Protection Agency. He also secures any required permits from the local health department, fire department, etc.

The project manager is responsible for seeing that health and safety standards are adhered to and that records are maintained in compliance with federal regulations. He also sends copies of this documentation to the client.

When the project is completed the project manager ensures that all asbestos waste is properly disposed of at a landfill approved by the Environmental Protection Agency.

The project manager's other regular duties include:

- Developing the project schedule

- Tracking the schedule and weekly costs.
- Keeping in contact daily with each superintendent and reviewing daily and weekly reports submitted by superintendents.
- Preparing invoices
- Notifying the warehouse superintendent of equipment requirements.

Superintendent

The superintendent prepares a daily log detailing:

- Names and locations of laborers.
- Equipment used.
- Notable events.
- Visitors

He also submits weekly time sheets, equipment status reports, and material usage reports to the project manager.

The superintendent is usually designated as the project safety coordinator and is responsible for administering our health and safety program, as described in this manual.

A superintendent is at the construction site when work is being performed. He directs all work inside the containment and is responsible for making sure the work is progressing as planned. He is the central core for the laborers, planning daily activities and assigning individual tasks.

Warehouse Superintendent

Functioning in parallel with the project organization, the warehouse superintendent monitors all equipment/supplies and ensures that an adequate inventory is maintained to satisfy our project requirements. This careful inventory control ensures that no delays are encountered because equipment or supplies are not available.

Operations

NSC Abatement Services performs all operations in strict accordance with OSHA, EPA, state and local (where applicable) regulations. Additionally, we adhere to any specific project specifications or local regulations.

Our operating procedures provide direction for:

- Enclosing and sealing the work area.
- Restricting access to the work area via a decontamination enclosure system.
- Removing and containing asbestos-contaminated materials.
- Monitoring and recording air quality,
- Adhering to an emergency and fire protection plan.

Section III
Abatement Execution

Section III – Abatement Execution

Enclosing the Work Area

Before any asbestos removal operations begin, the work area is enclosed and sealed as follows:

- Where possible, heating, ventilation and air-conditioning (HVAC) systems are shut down and isolated to prevent contamination and fiber dispersal to other areas of the facility.
- Objects in the work area are covered with plastic sheeting and sealed with tape.
- Openings including, but not limited to, windows, corridors, doorways, skylights, ducts, and grilles, are sealed with plastic sheeting.
- Floor and wall surfaces are covered with plastic sheeting and sealed with tape. As an added precaution, the plastic on the floor is extended a minimum of 12 inches to overlap the plastic on the walls.
- A negative-pressure differential is maintained in the enclosed area using HEPA-filtered, air-moving devices. These devices operate continuously throughout the duration of the project.

Restricting Access

Access to asbestos-contaminated work areas is strictly regulated and limited to authorized persons. A daily roster is kept of all persons entering and exiting the areas. During Working Hours, a NYSDOL Certified Asbestos Supervisor will be present to prevent any unauthorized/certified personnel from entering asbestos abatement regulated work area. Work area will be fitted with an attached, fully sheathed, and lockable decontamination unit which will prevent access to asbestos abatement regulated work area during hours of non-active abatement during hours that NSC Representatives are not on site.

All entrances or approaches to the work area are posted with warning signs.

DANGER

ASBESTOS

AUTHORIZED PERSONNEL ONLY

CANCER AND LUNG DISEASE HAZARD

RESPIRATORS & PROTECTIVE CLOTHING

ARE REQUIRED IN THIS AREA

No food, beverages, or tobacco products are permitted in the work area.

Decontamination Enclosure System

All employees must enter and exit the work area through a decontamination enclosure system.

The decontamination enclosure system consists of three chambers: the clean room, the shower area, and the equipment room; each separated by an airlock.

Doorways to these chambers are constructed to provide a sealed enclosure and consist of three sheets of overlapping polyethylene sheeting. One sheet is secured at the top and left sides; the second sheet at the top and right side; and the third sheet at the top and left side.

Clean Room

The clean room is equipped with lockers or appropriate storage containers for employee's use.

Shower Area

Generally, showers are contiguous to the clean room and the equipment room. When showers are not contiguous, employees wear two suits. The outer suit is HEPA vacuumed and removed before the workers proceed to the shower area.

Equipment Room

The equipment room is supplied with impermeable, labeled bags and containers for disposing of contaminated protective clothing and equipment.

Entering the Work Area

Employees must pass through the decontamination enclosure system before entering the work area. They enter through the clean room where they remove street clothing and deposit it in a locker. They put on protective clothing and respiratory equipment. They then pass through the equipment room before entering the work area.

Leaving the Work Area

Before leaving the contaminated work area, employees remove all gross debris from their protective clothing. They then enter the equipment room where they remove protective clothing and deposit it in labeled, impermeable bags and containers. Leaving their

respirators on, they proceed to the shower area where they follow specific procedures for cleaning the respirators. Finally, they enter the clean room and change into street clothes.

Removing Asbestos-Containing Materials

Airborne asbestos fiber concentrations are reduced when the asbestos-containing material is wet. *NSC Abatement Services* laborers wet all material to be removed with an amended water solution. The material is kept wet as it is sealed in containers for disposal. Some environments prohibit the use of wet methods (e.g. live electrical equipment or materials which were previously coated with an encapsulant). In those situations, prior written approval is obtained for dry removal.

In addition to observing these directives for removing asbestos-containing materials, *NSC Abatement Services* laborers also follow specific procedures to contain the materials:

- Asbestos-containing materials are removed in manageable sections which will fit in 6-mil polyethylene bags.

- Double bags are used to contain the waste material. Some localities require that fiber or metal drums be used to transport the asbestos-containing material. The project manager clarifies any special requirements prior to project commencement.

- Bags are not overfilled and are securely sealed prior to their removal from the work area to prevent accidental opening or leakage.

DANGER

CONTAINS ASBESTOS FIBERS

AVOID CREATING DUST

CANCER & LUNG DISEASE HAZARD

RQ HAZARDOUS SUBSTANCE,

SOLID, NOS, ORM-e, NA 9188

(ASBESTOS)

- Removed asbestos containing materials are promptly cleaned up and disposed of in leak-tight containers.

- Double-bagged asbestos materials are removed from the work area in covered trucks or enclosed dumpsters by licensed asbestos haulers. The materials are taken to landfills that are licensed by the Environmental Protection Agency to receive asbestos waste. All waste materials are properly labeled.

Monitoring Air Quality

NSC Abatement Services monitors the fiber levels to which employees are exposed and maintains records consistent with OSHA requirements.

Air samples from both personnel and work areas are taken

Personnel Samples

Taken from a representative number of laborers on each job and used to determine the level of respiratory protection needed and efficiency of work practices.

Area Samples

Taken prior to job start-up, while work is in progress, and after final cleanup.

Clearance Samples

Must achieve a fiber level of less than .01 fibers/cc before containment is dismantled.

Air sampling is performed using Gillian Model D-800 air-sampling pumps or equivalent using open-faced cassettes. Analysis is performed by an independent testing laboratory.

The following data are recorded:

- Date of measurement.
- Type of operation involving exposure (e.g. set-up, removal, bagging, or cleanup).
- Sampling and analytical methods used and evidence of accuracy.
- Number, duration, and results of samples.
- Type of protective devices worn,
- Name, social security number, activity and exposure of employees monitored.

Section IV
Emergency Procedures

Section IV - Emergency Procedures

All *NSC Abatement Services* employees are informed and trained for emergency procedures needed to be performed in any emergency situation.

NSC Abatement Services emergency procedures provide direction for:

- Emergency Medical Assistance Procedures
- Security, Fire and Emergency Evacuation
- Emergency Spill

Emergency Medical Assistance Procedures

Posting of emergency numbers is done in areas where phones are located. Supervisors are trained in Standard First Aid and Cardio-Pulmonary Resuscitation. A map showing routes to be taken to the nearest emergency facility or hospital is also placed on walls to insure that the proper and fastest route to the hospital is used. Telephone calls are then made to that facility telling them of the arrival of an injured employee, so they can prepare for his arrival. If the accident involves chemical spill, then a Material Safety Data Sheet goes along to the facility.

Security, Fire & Emergency Evacuation

A controlled access to the regulated area shall be established. Only authorized personnel shall be permitted to enter the regulated area. Regulatory personnel, media, etc., shall not enter the site without appropriate authorization.

An individually tailored emergency and fire protection plan is established specifically for each project. Each plan includes emergency escape routes and phone numbers, procedures for accountability for all employees, manner and means for notifying appropriate authorities and proper training of all employees as to their specific duties during an emergency.

All persons entering the regulated area shall be equipped with appropriate personal protective equipment and devices. All persons entering the regulated area shall be subject to the Health and Safety requirements set forth by *NSC Abatement Services*. All *NSC Abatement Services* employees have been trained in OSHA Hazard Communication CFR 1910.1200.

During the project, our employees inside containment as well as outside containment will use hand-held walkie-talkies. In case of an emergency, walkie-talkies, fire extinguishers and first aid stations are placed in various locations throughout the work zone.

Tailgate Safety Meetings are held before operations begin. These meetings describe the hazards, safety and evacuations protocol. In case of any emergency, a placard has been placed with emergency numbers in case of fire, injury, etc. We use the buddy system when working in containment.

Warning signs shall be posted, as per OSHA regulation, to alert any unauthorized personnel from entering the work site. Exits will be clearly marked inside the work area using high-visibility yellow tape. Arrows indicating exit routes will also be marked on the walls to aid personnel in evacuation.

In the event of an emergency, worker decontamination will take low priority, where bodily injury or life-threatening situations exist. Fire prevention in the work area is a function of good housekeeping and employee training and education in fire hazards and prevention. All employees will be alerted to the nearest telephone locations where fire, police, ambulance and nearest hospital emergency telephone numbers will be posted.

The project superintendent is responsible for implementing and assuring the above procedures.

Spill Response Emergency Procedures

This procedure establishes guidelines for the orderly handling and reporting of emergency situations, which occur or could develop.

Spills of a minor nature will be immediately cleaned up and disposed of properly

In case of a major spill, employees will respond with spill-containment apparatus and immediately notify the site consultant or owner. All *NSC Abatement Services* personnel involved in responding to a spill are trained in the proper response methods and duties.

Section V
Health & Safety Program

Section V – Health & Safety Program

We are committed to providing our employees with state-of-the-art protection against the hazards of airborne asbestos contamination. By observing safety requirements and regulations, *NSC Abatement Services* protects its clients against potential legal actions relating to asbestos exposure.

NSC Abatement Services health and safety program focuses on five major areas:

- Medical Surveillance
- Protective Clothing.
- Hygiene Facilities.
- Training.
- Respiratory Protection (See Summary Respiratory Protection Program) The first four areas are described in this section. Respiratory protection and related training are described separately in the Respiratory Protection Program section.

Medical Surveillance

All *NSC Abatement Services* employees are required to undergo **a** comprehensive physical examination when hired and annually thereafter. The examinations—conducted by independent health care facilities—include:

- Medical and work histories.
- Chest X-rays (two views).
- Spectrum cytology.
- Pulmonary lung function testing

We maintain all medical records for length of service plus 30 years.

Protective Clothing

All employees working inside the containment area wear Tyvek® disposable coveralls or similar full-body clothing. Additionally, gloves, hoods and boots or disposable shoe covers are required. In accordance with 29 CFR 191 0.132 when indicated by site assessment, employees wear face shields, goggles or other protective equipment.

Hygiene Facilities

Every *NSC Abatement Services* site has a decontamination unit that consists of an equipment room, shower area and clean room. Employees enter and exit the containment area through this unit, as described in our general operating procedures. Separate storage facilities are located in the clean room to prevent cross contamination of protective clothing/equipment and street clothes.

Training

The care and skills exercised by workers who remove asbestos-containing material are critical to the success of a project.

All *NSC Abatement Services* employees and managers receive extensive training in asbestos hazards and asbestos abatement operating procedures. We provide EPA-approved training courses to our employees.

The curriculum includes:

- Recognizing asbestos and asbestiforms.
- Understanding the health effects associated with these substances and learning the appropriate work practices for performing in asbestos-containing environments.
- Utilizing protective controls to minimize exposure, including:
    - engineering controls work practices
    - respirator usage
    - housekeeping practices hygiene facilities
    - protective clothing
    - decontamination procedures emergency procedures
    - waste disposal procedures
- Medical surveillance and health requirements

Project managers attend additional training and educational programs to stay abreast of rapidly changing industry standards.

Laborers and superintendents receive a minimum of four and five full days of initial training, respectively.

In addition, our employees attend courses on miscellaneous subjects such as first aid safety, scaffolding, hazard communication, etc.

Employee training records are maintained for employee's length of service plus thirty years. We ensure that this information is accurate and accessible so that our clients can be assured that each employee is qualified for the work to be performed.

Air Monitoring & Recordkeeping

Environmental (Work Place Air)

Permissible Exposure Limit (PEL) — Results of industrial hygiene monitoring and surveillance shall be compared with OSHA PEL of 0.1 fibers, longer than 5 micrometers, per cubic centimeter of air, determined as a time-weighted average (TWA) concentration, for an 8-hour workday, 40-hour workweek.

Monitoring & Recordkeeping Requirements

Monitoring and recordkeeping, consistent with OSHA requirements for asbestos handling operations, shall be conducted. Personnel air samples will be taken of a representative sample of workers on each job. This initial sampling will be used to determine the effectiveness of the respirator, efficiency of the job work practices and for documentation purposes. Personnel samples will provide an 8-hour time weighted average. Each set of samples taken will include 10% field blanks or a minimum of 2 field blanks. Area samples will be taken prior to job startup, during work and after final cleanup. Area samples will be of 4-hour duration, minimum volume 480 liters. Regulated areas will not be dismantled until an air level of .01 fibers/cc has been achieved. Air sampling will be performed using Gillian Model D-800 air-sampling pumps or equivalent using open-faced cassettes. Sampling and analysis will be in accordance with Appendix A to 29 CFR 1926.1101. Testing of air samples shall be performed by an independent testing laboratory that, as a minimum, participates in the EPA PAT and NYS ELAP program for asbestos testing. Air clearance samples must be obtained by an independent laboratory.

The following information will be recorded for all monitoring:

- The date of measurement.
- The operation involving exposure to asbestos.
- Sampling and analytical methods used and evidence of their accuracy

- Number, duration and results of samples taken.
- Type of protective devices worn, if any.
- Name, social security number and exposure of the employees whose exposures are represented.

Reporting Requirement

All planned asbestos work shall be reported to the Industrial Hygienist at least 20 days prior to commencement of work except when emergency renovation operations preclude prior notice. The industrial hygienist, owner, or Infinity shall submit all required state and federal notification forms 10 days prior to the scheduled removal.

Exposure Notifications & TWA For Asbestos Removal Projects

The Asbestos Safety Technician shall perform all air sampling on a project and be thoroughly familiar with requirements for asbestos abatement projects.

The Asbestos Safety Technician shall direct the actions of the contractor verbally and in writing to assure compliance. The Asbestos Safety Technician shall require that all workers present a valid work permit before entering the work area. The Asbestos Safety Technician shall have the authority to test the seal of the respirator of each person who enters the work area to ensure a proper fit. In matters of gross negligence and/or flagrant disregard for the safety of others, including the possibility of contaminating the building environment and the appearance of an emergency unsafe condition at the work area, the Asbestos Safety Technician shall direct corrective action. The Asbestos Safety Technician shall notify the administrative authority having jurisdiction who shall issue a Stop Work Order and have the work area secured until all violations are abated.

Upon receipt of testing results indicating that concentrations above the accepted criteria have occurred outside the containment barriers during the abatement project, the Asbestos Safety Technician shall immediately direct corrective action and verbally report these results within twenty-four hours to the contractor, the owner and the abatement project designer. Such verbal notification shall be followed by written notification to the contractor, the owner and the abatement project designer. A copy shall be sent to the administrative authority having jurisdiction and the department within three business days from receipt of the results.

The Asbestos Safety Technician shall keep an up-to-date and comprehensive daily log of on-site activities. One section of the log shall contain observations concerning contractor compliance with activities required under this subchapter listing all deficiencies encountered.

In addition, the log shall list the names of each person entering the work area. The log shall be kept at the job site and shall be made available upon request at all times to the owner, the abatement project designer and to the appropriate local and state agencies.

The Asbestos Project Monitor shall prepare a comprehensive final report to include daily logs, required inspection reports, observations and air monitoring results. This report shall be made part of the official project records maintained by *NSC Abatement Services*.

During the removal phase, the duties of the Asbestos Safety Technician shall be as follows:

- Air monitoring outside the work area shall be provided throughout removal operations to ensure that no outside contamination is occurring.

- If barriers or other control methods are observed to malfunction, and corrective action is not immediately taken upon notification, the Air Sampling Technician shall inform the administrative authority having jurisdiction who shall take immediate measures needed to ensure corrective action. In such a situation, sampling of a minimum of three additional samples per day shall be performed by the Air Sampling Technician.

Employee Notification & Availability

NSC Abatement Services shall notify affected employees of the monitoring results that represent that employee's exposure as soon as possible following receipt of monitoring results by posting at a centrally located area.

NSC Abatement Services, upon request, shall make employee medical records required available for examination and copying to the subject employee, anyone having the specific written consent of the subject employee, and the OSHA Assistant Secretary, in accordance with 29 CFR 1910.20.

Exposure Determination & Measurement

In conjunction with the excursion level concept, the exposure determination and measurement sections of the OSHA asbestos standard is designed in a step-by-step fashion to make compliance easier for those workplaces where only low concentrations of asbestos are present.

There are four steps in the measurement process:

- An initial determination of workplace conditions must be taken. This determination is an evaluation involving air sampling, bulk sample identification of asbestos, and the suggested method of abatement.

- When the initial exposure determination indicates that any employee may be exposed above the PEL, the exposure to the employee most likely to have the highest exposure

is monitored. If the monitoring results indicate that the employee is exposed to concentrations in excess of the PEL (0.1 f/cc), the IHSL must measure the exposures of all employees who possibly could be exposed above the PEL.

- Exposure measurement of concentrations above the excursion level, but below the permissible exposure level, must be made every shift.

- If measurements show that an employee is exposed to concentrations above the permissible limit, the employee must be notified no later than 5 days after exposure.

Establishment of TWA/Exposure Monitoring

General

NSC Abatement Services shall perform monitoring to determine accurately the airborne concentrations of asbestos or any presumed asbestos-containing materials (PACM).

Determinations of employee exposure shall be made from breathing zone air samples that are representative of the 8-hour TWA and 30-minute short-term exposures of each employee.

Representative 8-hour TWA employee exposure shall be determined on the basis of one or more samples representing full-shift exposure for employees in each work area. Representative 30-minute short-term employee exposures shall be determined on the basis of one or more samples representing 30-minute exposures associated with operations that are most likely to produce exposures above the excursion limit for employees in each work area.

Initial Monitoring

NSC Abatement Services shall perform initial monitoring at the initiation of each asbestos job to accurately determine the airborne concentrations of asbestos to which employees may be exposed.

NSC Abatement Services may demonstrate that employee exposure is below the PEL and/or excursion limit by means of objective data demonstrating that the product or material containing asbestos or a combination of minerals cannot release airborne fibers in concentrations exceeding the PEL and/or excursion limit under those work conditions having the greatest potential for releasing asbestos.

Periodic Monitoring Within Regulated Areas

NSC Abatement Services shall conduct daily monitoring that is representative of the exposure of each employee who is assigned to work within a regulated area. Exception: When all employees within a regulated area are equipped with supplied-air respirators operated in the positive-pressure mode, the employer may dispense with the daily monitoring required by this paragraph.

Method of Monitoring

All samples taken to satisfy the monitoring requirements shall be personal samples collected following the procedures specified in Appendix A, to 29 CFR 1926.1101 OSHA.

All samples taken to satisfy the monitoring requirements shall be evaluated using the OSHA Reference Method (ORM) or an equivalent counting method.

If an equivalent method to the ORM is used, the employer shall ensure that the method meets the following criteria:

- Replicate exposure data used to establish equivalency are collected in side-by-side field and laboratory comparisons.

- The comparison indicates that 90 percent of the samples collected in the range 0.5 to 2.0 times the permissible limit have an accuracy range of plus or minus 25 percent of the ORM results with a 95 percent confidence level as demonstrated by a statistically valid protocol.

- The equivalent method is documented and the results of the comparison testing are maintained.

- To satisfy the monitoring requirements of paragraph (f), employers shall rely on the results of monitoring analysis performed by laboratories that have instituted quality assurance programs that include the elements prescribed in Appendix A, to 29 CFR 1926.1101.

Methods of Compliance

Standards require the use of engineering or work-practice controls to reduce exposures equal to or less than the permissible exposure limit. However, if such controls cannot reduce exposure to the permissible limit, they must be used regardless, to reduce the exposure to the lowest level possible. At this point, the controls can be supplemented by respirators.

Asbestos Abatement Medical Surveillance

General

NSC Abatement Services shall institute a medical surveillance program for all employees engaged in Class 1,11,111 and IV asbestos work.

Examination by a Physician

- *NSC Abatement Services* shall ensure that all medical examinations and procedures are performed by or under the supervision of a licensed physician and are provided at no cost to the employee and at a reasonable time and place.

- Persons, other than such licensed physicians who administer the pulmonary function testing required by this section, shall complete a training course in spirometry sponsored by an appropriate academic or professional institution.

Medical Examinations & Consultations

Frequency

NSC Abatement Services shall make available medical examinations and consultations to each employee on the following scheduled:

- Prior to assignment of the employee to an area where negative-pressure respirators are worn.

- When the employee is assigned to an area where exposure to Class 1,11,111, and IV work or above the Permissible Exposure Limit (PEL) or excursion limit for 30 or more days per year, a medical examination must be given within 10 working days following the thirtieth day of exposure.

- At least annually thereafter.

- If the examining physician determines that any of the examinations should be provided more frequently than specified, the employer shall provide such examinations to affected employees in the frequencies specified by the physician.

Exception

No medical examination is required of any employee if adequate records show that the employee has been examined in accordance with this paragraph within the past 1-year period.

Content

A medical and work history with special emphasis directed to the pulmonary, cardiovascular and gastrointestinal systems.

Medical examinations shall include:

- On initial examination, a standardized questionnaire and on annual examination, the abbreviated standardized questionnaire as prescribed in 29 CFR 1926.1101, Appendix D.

- A physical examination directed to the pulmonary and gastrointestinal systems, including a chest roentgenogram to be administered at the discretion of the physician

and pulmonary function tests of forced vital capacity (FVC) and forced expiratory volume at one second (FEV). Interpretation and classification of chest roentgenogram shall be conducted in accordance with 29 CFR 1926.1101.

- Any other examinations or tests deemed necessary by the examining physician.

Information Provided to the Physician

NSC Abatement Services shall provide the following information to the examining physician:

- A copy of OSHA 29 CFR 1926.1101 standard and Appendices D, E, G, and I.
- A description of the affected employee's duties as they relate to the employees exposure.
- The employee's representative exposure level of anticipated exposure level.
- A description of any personal protective and respiratory equipment used or to be used.
- Information from previous medical examinations, if available, of the affected employee that is not otherwise available to the examining physician.

Physician's Written Opinion

NSC Abatement Services shall obtain a written opinion from the examining physician. This written opinion shall contain the results of the medical examination and shall include:

- The physician's opinion as to whether the employee has any detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos.
- Any recommended limitations on the employee or on the use of personal protective equipment such as respirators.
- A statement that the employee has been informed by the physician of the results of the medical examination and of any medical conditions that may result from asbestos exposure.
- A statement that the employee has been informed by the physician of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

NSC Abatement Services shall instruct the physician not to reveal in the written opinion to the employer specific findings or diagnoses unrelated to occupational exposure to asbestos.

NSC Abatement Services, upon request, shall provide a copy of the physician's written opinion to the affected employee within 30 days from its receipt.

Medical Surveillance

Prehire and periodic/update medical examinations, consistent with the requirements of the OSHA standards (as defined in 29 CFR 1910.1001 and 29 CFR 1926.1101), shall be performed for those employees subject to asbestos exposures. The medical monitoring shall include chest x-rays (2 views), spectrum cytology, pulmonary lung function test and a pulmonary history. Records will be maintained for 30 years post employment.

Emergency Procedures

All *NSC Abatement Services* employees are well informed and trained for emergency procedures needed to be performed in any emergency situation that may require medical attention.

Posting of emergency numbers in areas where phones are located. All supervisors are trained in Standard First Aid (SEA) and Cardio-Pulmonary Resuscitation (CPR). The nearest emergency facility or hospital is posted. If the accident involves chemical spill, then a Material Safety Data Sheet goes along to the facility.

Medical Surveillance Record Retention

All medical surveillance records, required under 29 CFR 1926.110, will be maintained in accordance with 29 CFR 1926.1101.

Emergency Action Plan

This plan will outline contingency actions to be performed for the following emergencies:

Fire

1. Notification of the project will be given to the local Fire Chief.

2. Tailgate Safety

Tailgate Safety Meetings are held every day before operations begin. These meetings describe the hazards, safety and evacuation protocol. In case of emergency, a placard (copy attached) has been placed with emergency numbers in case of fire, injury, etc. *NSC Abatement Services* uses the buddy system when working in containment.

3. During the project, hand-held walkie-talkies will be used by *NSC Abatement Services* employees inside containment as well as outside containment. In case of an emergency, walkie-talkies, fire extinguishers and first aid stations are placed in various locations throughout the work zone.

4. Emergency escape routes and exits will be clearly identified.

5. Fire extinguishers will be placed in designated areas throughout work area.

Accident

1. Tailgate

   Tailgate Safety Meetings are held every day before operations begin. These meetings describe the hazards, safety and evacuation protocol. In case of an emergency, a placard has been placed with emergency numbers in case of fire, injury, etc. *NSC Abatement Services* uses the buddy system when working in containment.

2. In the event of an emergency, worker decontamination will take low priority where bodily injury or life-threatening situations exist.

3. First aid kits will be available in a designated area near decontamination unit.

Power Failure

1. *NSC Abatement Services* workers will be instructed to cease all work operations.

2. Notify building security and consultant that power has been interrupted

3. Take necessary steps to evaluate situation and restore power in a timely manner.

Unexpected Site Contamination and/or Asbestos Spill

1. *NSC Abatement Services* workers will be instructed to cease all work operations.
2. Notify consultant and owner
3. Demarcate affected area and proceed with clean up as instructed by on-site consultant.
4. Determine source or cause of unexpected site contamination.

General

1. *NSC Abatement Services* uses the buddy system to account for all employees after evacuation has occurred.
2. The Site Safety Coordinator will be the responsible individual for compliance with the Emergency Action Plan.
3. The Plan will be posted and easily accessible to all parties involved.

Emergency & Fire Prevention Plan

Emergency & Fire Prevention Plan

Because of the variation of conditions encountered on each job site, an individually tailored emergency and fire protection plan will be developed for each project.
Development of the plan and communication to all employees is the responsibility of the Project Superintendent. At a minimum, the plan will contain:

- Emergency escape procedures and routes.
    - Exits and routes to those exits will be clearly identified.
- Procedures to account for all employees after evacuation has occurred (i.e. “buddy system”).
- Manner and means for notifying appropriate authorities of fires and other emergencies.
- Rescue and medical duties for those employees who are to perform them

- In the event of an emergency, worker decontamination will take lower priority where bodily injury or life-threatening situations exist. Fire prevention in the work area is a function of good housekeeping, employee training and education in fire hazards and prevention. The Project Superintendent is responsible for assuring the above and for maintenance of proper fire suppression equipment.

Security, Fire & Emergency Evacuation

A controlled access to the regulated area(s) shall be established. Only authorized personnel shall be permitted to enter the regulated area(s). Regulatory personnel, media, etc., shall not enter the site without appropriate authorization.

All persons entering the regulated area(s) shall be equipped with appropriate personal protective equipment and devices. All persons entering the regulated area(s) shall be subject to the Health and Safety requirements set forth by *NSC Abatement Services*, Inc. All *NSC Abatement Services* employees have been trained in OSHA Hazard Communication CFR 191 0.1200 / 29 CFR 1926.59.

During the project, hand-held walkie-talkies will be used by *NSC Abatement Services* employees inside containment as well as outside containment. In case of emergency, walkie-talkies, fire extinguishers, and first aid stations are available in various locations throughout the work zone.

Tailgate Safety Meetings are held every day before operations being. These meetings describe the hazards, safety and evacuations protocol. In case of any emergency, a placard will be placed with emergency numbers in case of fire, injury, etc. Infinity uses the buddy system when working in containment.

Warning signs shall be posted, as per OSHA regulations, to alert any unauthorized personnel from entering the work site. Exits will be clearly marked inside the work area using high-visibility yellow tape. Arrows indicating exit routes will also be marked on the walls to aid personnel in evacuation.

In the event of an emergency, worker decontamination will take a lower priority, where bodily injury or life-threatening situations exist. All employees will be alerted to the nearest telephone locations where fire, police, ambulance and nearest hospital emergency telephone numbers will be posted.

The Project Superintendent is responsible for implementing and assuring the above procedures.

Emergency Medical Procedures

NSC Abatement Services employees are well informed and trained for emergency procedures required to be performed in emergency situations that may require medical attention. Posting of

emergency numbers is done in areas where phones are located. All supervisors are trained in Standard First Aid (SFA) and Cardio-Pulmonary Resuscitation (CPR). A map showing routes to be taken to nearest emergency facility or hospital is also placed on walls to insure that the most feasible route to the hospital is used. Telephone calls are then made to that facility telling them of the arrival of an injured employee, so they can prepare for his arrival. If the accident involved chemical spill, then a Material Safety Data Sheet goes along to the facility.

Our safety officer visits sites regularly to insure a safe work place. On-going training in Hazard Communications is an OSHA regulation that is present on site as well in a classroom. Tailgate Safety Meetings are held at the beginning of each shift or whenever a new employee comes on site.

Emergency Response Program

Scope

NSC Abatement Services will have in place an emergency response system that would include all the necessary manpower, tools, equipment and hygiene services necessary to:

- Contain
- Decontaminate.
- Remove or repair.
- Transport and dispose of all contaminated waste at an EPA-approved landfill.

Plan

Emergency response activation is performed in accordance with procedures mandated by OSHA, EPA, DER, DOT and local regulations when applicable.

All data and reports developed during the course of an emergency response will be collected and summarized into a final detailed report, which is submitted at the conclusion of the project. Additionally, during the course of the project, written progress reports can be submitted on a regular basis, if requested. These reports typically describe the technical aspects of the project and include costs status and estimate information relative to the project. All technical, analytical and cost data is retained for possible use in litigation that may arise out of the incident.

After obtaining basic information about the incident, a dispatcher will then arrange for mobilization of personnel and equipment. *NSC Abatement Services* response team personnel carry pagers enabling them to be reached 24 hours a day. The Client's designated representative will then be notified regarding the estimated time of arrival and other applicable information. It

is imperative to respond quickly with trained personnel and appropriate equipment in order to limit to the greatest extent possible the time between the onset of the contamination and the initiation of control procedures.

In the event of a significant or potentially large contamination, *NSC Abatement Services* response will be commitment of personnel and equipment of a magnitude adequate to assure that sufficient resources are available to handle the situation.

Tailgate meetings will be conducted at the beginning of each project shift, or whenever employees arrive on the jobsite. These meetings should discuss the problem and health and safety considerations for the particular activity including the protective equipment and other materials necessary to perform the work.

Work Zones

The work areas can be categorized as an exclusion ("hot") zone, a contamination-reduction zone and a support zone.

Exclusion Zone

The exclusion zone consists of the entire area of suspected contamination. The exclusion zone will be a defined area where there is a possible respiratory and/or contact health hazard. The location of the exclusion zone will be demarcated by warning signs and barrier tape.

Contamination-Reduction Zone

The decontamination of all personnel will be performed on-site adjacent to the exclusion zone. Personnel protective outer garments and respiratory protection will be removed in the contamination-reduction zone.

Support Zone

The support zone consists of an area outside the contamination-reduction zone. The support zone will be located to prevent employees from being exposed to any physical or health hazards above environmental levels.

Respiratory Protective Equipment & Protocol

A comprehensive, respiratory-protection program has been established. This program will be required in all locations where use of such equipment could lessen the potential for adverse health effects to any employee.

The type of respiratory equipment will be continuously re-evaluated based upon the current level of exposure. The only persons able to modify the level of respiratory protection are the site supervisor and regional OSHA representative.

As part of the respiratory training program, each employee is instructed in the following elements:

- Nature of the respiratory hazard on the work site and the appraisal of what may happen if the respiratory protection is not utilized.
- Cleaning, disinfecting, inspecting, maintaining and storing of the respirator.
- Proper selection, capabilities and limitations.

General Information

The health hazards of prolonged exposure to airborne asbestos are well documented.

Equally well known are the liabilities that manufacturers of asbestos products face, and the potential liabilities of building owners and facility managers whom do not eliminate asbestos hazards.

In removing asbestos, there can be no allowance for anything but expert, well planned, professionally executed and thoroughly documented work at every phase.

NSC Abatement Services was formed specifically to meet the need for professionalism in the asbestos abatement industry.

NSC Abatement Services, based in New York has successfully completed asbestos abatement projects in commercial buildings, government buildings, hospitals, schools and industrial facilities.

The Company has enjoyed steady and significant growth since its beginning.

Asbestos project scopes range from small mechanical insulation removal to large-scale projects.

NSC Abatement Services commitment to doing every job precisely right assures clients of quality work performed safely, within budget and on-schedule.

Scope of Services

NSC Abatement Services has expertise in all types of asbestos abatement.

- Removal and disposal

- Enclosure (constructing structures around asbestos-containing areas)
- Encapsulation (spraying asbestos-containing materials with an approved sealant)
- Budget assessments
- Program design
- Planning and scheduling
- Asbestos removal, disposal, enclosure or encapsulation
- Re-insulation
- Re-fireproofing

Health & Safety Training

Employee Training & Information

- Training Program

    - All employees, who are subject to exposure to asbestos, shall complete a formal training program, accredited by the EPA, that will be repeated annually which shall include, at a minimum, the following:

    - Methods of recognizing asbestos and presumed asbestos-containing material.

    - The health effects associated with asbestos and asbestos-containing material exposure.

    - The relationship between smoking and asbestos in producing lung cancer.

    - The nature of operations that could result in exposure to asbestos or asbestos-containing material.

    - The importance of necessary protective controls to minimize exposure including, as applicable: engineering controls, work practices, respirators, housekeeping practices, hygiene facilities, protective clothing, decontamination procedures, emergency procedures and waste disposal procedures and any necessary instruction in the use of these controls and

    - The purpose, proper use, fining instructions and limitations of respirators, as required by 29 CFR 1910.134.

    - The appropriate work practices for performing the asbestos job.

    - The medical surveillance program requirements.

- Tailgate Safety Meetings

Job site Tailgate Safety Meetings, in accordance with OSHA regulations, shall be conducted at the beginning of each job, whenever new employees arrive at the job site and at additional times as required by job conditions or duration.

- In House Training
- Hazard Communication Training as per 29 CFR 1926.59 and 29 CFR 1910.1200.
- All employees are trained in the understanding of material safety data sheets (MSDS).
- All employees are trained in reading material safety data sheets (MSDS).
- Recognizing hazardous materials and their potential for creating health problems.
- Proper methods of handling hazardous products.
- Proper labeling and identification.

Respiration Protection & Personal Protection Program

Respiratory protection is the heart of *NSC Abatement Services* health and safety program. *NSC Abatement Services* requires respiratory protection regardless of available engineering controls. Infinity follows the standard set forth by OSHA 29 CFR 191 0.134 and 29 CFR 1926.103.

NSC Abatement Services respirator program ensures that:

- Respirators are regularly inspected and properly maintained.
- Employees are thoroughly trained in the use and care of respirators.
- Records are maintained regarding respirator use, maintenance and training.
- Specific responsibilities are assigned to both management and laborers with respect to respirator use and maintenance.

Respirator Selection

NSC Abatement Services requires its employees to wear respirators at all times when working inside the containment or when there is a potential asbestos exposure.

Efficient respiratory protection is available to protect against the many respiratory hazards encountered. Therefore, it is vital that employees familiarize and be trained with the proper operating procedures and with limitations of this equipment.

Proper respiratory protective equipment must be used whenever the atmosphere in which the employee must work is contaminated with harmful dust, gases, fumes, vapors or mists. The table below shows the OSHA standard for wearing the different types of protection. This table is found in 29 CFR 1926.1101, Table 1.

The types of cartridges used are high-efficiency cartridges with 99.97% efficiency against non-dispersed particles of 0.3 micrometers in diameter or larger.

Dual cartridges are used where chemicals or danger of chemicals are used as well as the danger of dust, gases, vapors or mist.

NSC Abatement Services employs the following types of respirators according to various exposure levels:

TABLE 1
RESPIRATORY PROTECTION
FOR
ASBESTOS FIBERS

Not in excess of 1 f/cc	Half-mask air purifying respirator, other than a disposable respirator, equipped with high-efficiency filters.
Not in excess of 5 f/cc	Full face air-purifying respirator equipped with high efficiency filters.
Not in excess of 10 f/cc	Any powered air-purifying respirator equipped with high efficiency filters.
Not in excess of 100 f/cc	Full-face supplied-air respirator operated in pressure demand mode.
Greater than 100 f/cc	Full-face supplied-air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus.

The capabilities of the various respirators are determined from governmental approvals, manufacturers' tests and *NSC Abatement Services* experience.

Respirators are selected by the safety director and the industrial hygienist based upon the following criteria:

- Physical, chemical, and physiological properties of the airborne contamination.
- Concentrations of contamination.
- Nature of the work being performed.
- Quality of respirator fit.

Each employee is issued a respirator. Each respirator is identified in a manner which does not interfere with its performance, and individual fit testing is conducted for each employee.

Inspection & Maintenance

Respirators and related equipment are systematically inspected and maintained to retain their original effectiveness. Users routinely inspect their respirators before and after each use and after each cleaning. Respirators are kept on hand for emergency use.

The following components of the respirators are examined:

- Face piece.
- Head bands.
- Valves.
- Hoses.
- Filter cartridge.
- Battery pack (if PAPR).

Respirators with any signs of deterioration, wear, damage or other conditions that could prevent an airtight fit, do not pass inspection and are repaired or replaced immediately.

Cleaning

Employees clean their respirators at the end of the work shift. Employees are trained in this procedure, which includes:

- Removing cartridges in half-face and full-face, negative-pressure respirators. These cartridges are treated as asbestos waste and are discarded at the end of their work shift or when resistance to breathing occurs.

- Plugging cartridges in PAPR units, which may be re-used until their rated effective life is expired.

- Wearing face pieces into the decontamination shower and thoroughly rinsing under running water to remove all accumulation of debris. Employees thoroughly rub all contours of the face piece with their fingers to dislodge any debris.

- Rinsing in the shower, removing face pieces, washing them in a detergent-disinfectant solution and rinsing in clean water in a clean area. If necessary, using a brush to scrub the face piece.

- Drying face pieces using either portable dryers or drying racks.

- Storing respirators in plastic bags to protect them against dust, sunlight, extreme heat, extreme cold, excessive moisture or damaging chemicals.

Training

In addition to the health and safety training program, all *NSC Abatement Services* employees are trained in the use and care of respirator equipment. Training is repeated as often as necessary to ensure that all employees remain familiar and competent in the proper use of respirators.

All employees receive training in:

- Identifying the physical characteristics of the various kinds of asbestos contamination generated by asbestos abatement work.

- Understanding the health implications of exposure to asbestos contamination.

- Determining which types of respirator systems are effective against the various types of airborne asbestos contamination.

- Recognizing the intended use and limitations of each type of respirator system.

- Properly wearing, adjusting, and testing respirators for an airtight fit.

- Cleaning and storing the various components of the respirator systems.

- Step-by-step, hands-on instruction for performing routine respirator inspections.

Additionally, job site Toolbox Safety Meetings, in accordance with OSHA regulations, are conducted at the beginning of each project, whenever new employees arrive at the job site and at additional times as required by job conditions or duration.

Records

NSC Abatement Services maintains thorough and accurate records of respirator use, as follows:

- The number and types of respirators in use.
- Employee training, including the name of the individual, length of time of training, nature of the training and date of training.
- *NSC Abatement Services* shall ensure that the respirator issued to the employee exhibits the least possible face piece leakage and that the respirator is fitted properly.
- *NSC Abatement Services* performs qualitative face fit tests at the time of initial fitting and at least every 12 months thereafter for each employee wearing a respirator.

Fit test procedure is as follows:

1. Respirator selection.
2. Each respirator shall be equipped with a high-efficiency cartridge.
3. Introduce test subject to a weak smell of irritant smoke to familiarize the subject with the characteristic odor.
4. Employee should then don the respirator selected and wear it at least 10 minutes before starting the fit test.
5. Positive and negative pressure fit checks.
6. Test subject should close eyes while the test is performed.
7. Test subject shall then do exercise according to fit test sheet. Each exercise will be performed for one minute.

Health & Safety Responsibilities

NSC Abatement Services ensures adherence to its respirator program by assigning specific responsibilities to both management personnel and laborers. On most projects, a superintendent is designated as the safety director and is responsible for overall coordination of the health and safety program.

Safety Director

The superintendent appointed to be the project safety director is responsible for:

- Communicating to company employees in a clear and accurate manner the biological dangers posed by exposure to airborne asbestos contamination.
- Providing employees with respiratory protection appropriate to the project environment.
- Organizing and implementing instruction programs and hands-on training in the use and maintenance of respirators and associated equipment.
- Administering the overall program, including record keeping.

Foreman

Each foreman is responsible for:

- Ensuring that employees are knowledgeable about the dangers of asbestos contamination and the need for adequate respirator protection.
- Ensuring that employees have an adequate supply of respirators and all required parts and supplies for maintaining the systems.
- Ensuring that employees wear respirators whenever they are inside the containment area.
- Regularly inspecting respirators and related equipment and supplies to ensure that they are in proper operating condition.
- Maintaining, repairing, disinfecting and cleaning all respiratory equipment prior to its issue to employees.

Laborers

Laborers are responsible for:

- Understanding the basic characteristics of asbestos materials and their capacity for releasing invisible asbestos contamination.
- Recognizing the medical consequences of not being protected from breathing asbestos contamination.
- Using an assigned respirator in accordance with instruction and training.
- Daily cleaning, disinfecting and storing the respirator.

- Exercising care with the respirator and related equipment and supplies to avoid causing any damage.

- Wearing a respirator at all times in environments where airborne asbestos contamination is known or expected to be present.

Industrial Hygienist

When applicable, the industrial hygienist is responsible for:

- Providing competent technical assistance in determining which type of respirator is appropriate for the situation.

- Providing periodic surveillance of conditions in the work areas where respirators are in use.

- Periodically evaluating *NSC Abatement Services* respirator program.

- Providing educational materials for educating employees about asbestos dangers as well as state-of-the-art respiratory protection.

Personal Protective Equipment

29 CFR 1910.132—1910.38

General Requirements

Protective equipment, including personal protective equipment for eyes, face, head and extremities, protective clothing, respiratory devices, protective shields and barriers, shall be provided, used and maintained in a sanitary and reliable condition wherever it is necessary due to hazards of processes, environment, chemical hazards, radiological hazards or mechanical irritants encountered capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact.

1910.132(d) (1) Hazard Assessment & Equipment Selection

NSC Abatement Services shall assess the workplace to determine if hazards are present or are likely to be present which necessitates the use of personal protective equipment. If hazards are present, *NSC Abatement Services* will:

- Select and have each affected employee use the types of PPE that will protect the affected employee from the hazards identified in the hazard assessment.

- Communicate PPE selection decisions to each affected employee.
- Select PPE that properly fits each affected employee

NSC Abatement Services shall verify that the required workplace hazard assessment has been performed through:

- A written site assessment checklist for workplace evaluated.
- The person certifying that the evaluation has been performed.
- The dates of the hazard assessment.

Work Practices

Preliminary preparations in the work area shall be conducted as follows:

- Work Area Preparation.

  NSC Abatement Services shall provide and post in clearly visible locations, caution signs indicating that asbestos work is being conducted and unauthorized/unprotected persons should not enter.

  Employees of *NSC Abatement Services* or persons employed by the building owner, who have successfully completed a maintenance/custodial/worker approved training course, unless the room and objects within are shown to be uncontaminated by asbestos in which case other employees of the building owner or contractor may be used, shall clean with wet cloths and/or with HEPA vacuums as appropriate all items that can be removed from the work area without disrupting the asbestos material. This shall include furniture, equipment, drapes and curtains. The cloths used for cleaning shall be disposed of as asbestos-contaminated waste.

  NSC Abatement Services shall install or build an approved decontamination facility. (Described later in this section.)

  NSC Abatement Services shall arrange for the shut down, lock-out and seal off of all lighting, heating, cooling, ventilating or other air-handling systems and an alternative system shall be utilized.

- Emergency Procedures

  Warning signs shall be posted, as per regulations, to alert any unauthorized personnel from entering the work site.

Exits will be clearly marked inside the work area using high-visibility tape. Arrows indicating exit routes will also be marked on the walls to aid personnel

In the event of an emergency, worker decontamination will take low priority where bodily injury or life-threatening situations exist. Fire prevention in the work area is a function of good housekeeping, employee training and education in fire hazards and prevention. *NSC Abatement Services* shall have a list of emergency telephone numbers at the job site which shall include the Asbestos Safety Control Monitor Firm employed by the building owner and telephone numbers for fire, police, emergency squad, local hospital and health officer.

First aid supplies shall be easily accessible and kept in a weatherproof container with individually sealed packages for each type of item. The contents of the first aid kit shall be checked by the superintendent before being sent to the job site and inspected weekly thereafter.

- Personal Decontamination Enclosure System

NSC Abatement Services shall provide an adequate decontamination unit consisting of a serial arrangement of rooms or spaces adjoining the work area or a decontamination trailer. Each airlock shall be clearly identified and separated from the other by plastic crossover sheet doors designed to minimize fiber and air transfer as people pass between areas. A minimum of two layers of 6-mil plastic sheeting shall be required for floors, walls and the ceiling for on-site constructed decontamination units. Plastic crossover sheet doors shall have at least three layers of 6-mil plastic sheeting and be weighted so as to fall into place when people pass through the areas. Decontamination chamber doors shall be of sufficient height and width to enable replacement of equipment that may fail and to safely stretcher or carry an injured worker from the site without destruction of the chamber or unnecessary risk to the integrity of the work area. Such doors will be at least 3 feet wide, and the distance between sets of flaps must be at least 3 feet.

The decontamination areas shall consist of the following:

- Clean room: In this room, persons remove and leave all street clothes and put on clean disposable coveralls. Approved respiratory protection equipment is also picked up in this area. No asbestos contaminated items are permitted in this room.

- Shower room: This is a separate room used for transit by cleanly dressed people entering the job site from the clean room and for showering by them after they have undressed in the equipment room. This is a contaminated area.

- Equipment room: Work equipment, footwear and all other contaminated work clothing shall be stored here. This is also a change and transit room for people. All areas between the shower room and work area shall be considered part of the equipment room. This is a contaminated area.

- Waste Decontamination Enclosure System

    - *NSC Abatement Services* shall provide and post in clearly visible locations, caution signs indicating that asbestos work is being conducted and unauthorized/unprotected persons should not enter.

    - *NSC Abatement Services* shall install or build an approved decontamination facility.

    - *NSC Abatement Services* shall arrange for the shut down and seal off of all lighting, heating, cooling, ventilating or other air-handling systems.

    - *NSC Abatement Services* shall establish written emergency procedures to be available on site within each work area. These procedures shall include plans for medical emergencies, fire evacuations, temporary loss of electrical power or water and procedures for repair and clean-up following temporary breach of containment barriers.

- Work Area Entry and Exit Procedures

    - *NSC Abatement Services*, in order to prevent contamination of the environment, shall be responsible for controlling access at the work site and shall maintain a daily log of personnel entering the work area. A list of names of workers shall be posted with their start and stop times for each day. In addition, *NSC Abatement Services* shall assure that all who enter the work area shall observe the following work area entry and exit procedures:

    - Person enters clean room and removes street clothing, puts on a respirator and Tyvek protective clothing and passes through shower room into the equipment room.

    - Any additional required clothing and equipment previously deposited in the equipment room is put on.

    - Person proceeds to work area.

    - Before leaving the work area, the person shall remove all gross contamination and debris from the overalls using a vacuum with a High-Efficiency Particulate Absolute (HEPA) filter.

    - The person then proceeds to equipment room and removes all clothing except approved respirators. Extra clothing may be stored in contaminated end of the unit. Disposable coveralls are placed in a bag for disposal with other materials.

    - The person then proceeds directly into the shower room. Respirators shall be taken off last to prevent inhalation of fibers during removal of contaminated clothing and shall not be removed until they have been washed free of dust.

- After showering, the person moves to the clean room and dresses in street clothing prior to exiting.

- Respirators are picked up, washed thoroughly and disinfected as required, wrapped and stored in the clean room.

- Maintenance of Decontamination Enclosure System and Work Area Barriers

Isolation and barrier construction in the work area shall be conducted as follows:

- Before removing any asbestos from the work area, *NSC Abatement Services* shall ensure that the outer perimeters of the work area have been securely sealed off from the rest of the building.

- All vertical and horizontal surfaces, except those of asbestos-containing materials, shall be sealed with watertight polyethylene plastic sheeting except as provided below:

- An entrance airlock including showers and decontamination chamber.

- A debris removal airlock to permit cleaning and rehoving asbestos waste.

- Staircases.

- Barriers used to isolate contaminated areas from uncontaminated areas shall be constructed of plastic polyethylene sheeting. This plastic sheeting shall be replaced or repaired immediately if torn or damaged. The minimum acceptable thickness for covering walls shall be 6-mil plastic sheeting. A double layer of 6-mil plastic sheeting shall be used to seal open space between work areas and non-contaminated areas and for all floors except stairs.

- Encapsulation Procedures

  - Encapsulation constitutes spraying friable asbestos-containing material with a liquid sealant (not including paint) that helps bind the asbestos together with other material components to adhere it firmly to the building structure.

  - *NSC Abatement Services* will comply with the following to prevent the contamination of the building environment:

  - Encapsulation shall not be performed where:

    - Asbestos-containing material is friable, damaged, or deteriorating.

    - Effective long-term inspection of the encapsulated site cannot be assured.

- The source of asbestos is highly accessible to building occupants and damage to material is possible.
- The asbestos-containing material does not adhere well to the substrate.
- There is existing or potential water damage to asbestos-containing material.
- The asbestos-containing material is more than one inch thick and is used to cover ceilings, walls, beams or other structural members.
- The asbestos-containing material is subject to high vibration.

- Encapsulation may be performed where:
    - Damage to the material is improbable.
    - The asbestos-containing materials are granular or cementitious.
    - The encapsulation material is known to bond asbestos to the subsurface and the asbestos-containing material still retains its bonding integrity.
    - Asbestos-containing material has been removed and loose fibers remain which should be bonded.
    - If encapsulation is used as a method of asbestos abatement, Infinity will inform the owner that a maintenance procedure shall be employed by the owner as follows:
    - A periodic monitoring and maintenance program consisting of inspection at least annually to check for damage to all encapsulated surfaces.
    - Maintenance of records by the building owner on the locations and condition of the encapsulated material.
    - The removal of encapsulated asbestos when conditions change, making encapsulation no longer an appropriate method of abatement.

- Sealant considered for use in encapsulation shall first be tested to ensure that the sealant is adequate for its intended use. A section of the asbestos-containing material shall be evaluated following this initial test application of the sealant to quantitatively determine the sealant's effectiveness in terms of penetrating and hardening the asbestos-containing material, its toxicity, its flammability, its tolerance to disturbance or abuse, its solubility (dissolvability)

in water, its effects on the acoustical properties of the asbestos-containing material, and its tolerance to top-covering paints. The United States Environmental Protection Agency, Office of Toxic Substances, has developed guidelines for the use of encapsulant on asbestos-containing materials which discuss advantages and disadvantages of encapsulation.

The American Society of Testing and Materials (ASTM) Committee E06.21 .06E on Encapsulation of Building Materials has developed a guidance document to assist in the selection of an encapsulant once a decision to encapsulate has been made. When a choice of an encapsulant has been made, written jurisdiction of this choice (based on the characteristics of the encapsulant, the asbestos-containing material to be encapsulated and the substrate surface underneath the asbestos-containing material) shall be included in the job specifications, and a copy of this justification shall be available for review at the job site.

- Before encapsulation is performed, all loose and hanging asbestos containing material shall be removed while damp and disposed of in accordance with this subchapter.

- Filler material, used to repair damage and missing areas of asbestos-containing material, shall contain no asbestos, shall adhere well to the substrate and shall provide an adequate base for the encapsulating agent.

- Encapsulated asbestos-containing material shall be identified by signs, labels, color coding or some other mechanism to warn persons who may be required to disturb the material that asbestos is present.

Where encapsulants are sprayed on asbestos-containing materials:

- Low-pressure airless spray shall be used. The airless spray gun shall have an appropriately sized tip which shall be tested by briefly spraying the encapsulant onto a surface from approximately twelve inches away. An appropriately sized tip will spray the encapsulant in a fan approximately eight inches wide; it will also distribute the encapsulant uniformly within the fan, giving even coverage.

- A suitable quality of HEPA filtration units shall be used during the encapsulation process which shall have sufficient capacity to cause one complete air exchange every 30 minutes.

- At least three coats of the encapsulant shall be applied to the surface of the asbestos-containing material. Each coat shall be applied in a two-step procedure. The first step is to apply a light mist coat to moisten and seal any loose fibers and keep them from breaking away from the surface. This mist coat should be applied in three or four quick passes with the gun held 18 to 24 inches from the surface.

- After an area of 16 to 20 square feet has been given the mist coat, a heavier coating is applied, using 8 to 10 passes with the gun held 10 to 12 inches from the material. The gun should be kept in constant motion to create a smooth and even coat. This two-step application shall be considered one coat of the encapsulant. Each subsequent coat shall be

applied at a 90-degree angle to the direction of the preceding coat application to ensure complete coverage of the asbestos-containing material. When questions arise regarding drying time, curing time, dilution or use under different weather conditions, the manufacturer's recommendations and instructions shall be consulted.

- Sealant used in encapsulation shall be flame resistant and meet the flame spread and smoke generation requirements.

- Removal of Non-Friable Asbestos-Containing Material

  This section applies to all interior building, non-friable, miscellaneous asbestos-containing material.

  - When the removal method will cause the building environment to become contaminated with airborne fibers caused by a combination of mechanical and manual tasks, such as grinding the surface of vinyl floor tiles, then complete separation of the worksite from the rest of the building shall be required, and the precautions and procedures during an asbestos hazard abatement project shall be followed.

  - When the removal method will not contaminate the building environment with airborne fibers, such as when an electric heating appliance is used to loosen vinyl floor tiles, then general isolation of the work area from the surrounding environment, safe work practices and proper clean-up procedures, including having access to shower facilities after performing the asbestos-related work shall be required. A construction permit shall be required.

  - The disposal of non-friable asbestos-containing waste shall conform to specific applicable requirements.

  - The removal of non-friable asbestos-containing material found on the exterior of a building such as asbestos siding, transite and cement board, asbestos roof shingles, felts and built up roofing material shall be removed using a two-step procedure.

  - The initial step shall include the construction of a mini-enclosure around a representative sample of the material. If the non-friable status of the material remains unchanged during removal and representative air sampling indicates acceptable levels, the remainder of the material can be removed accordingly. Otherwise, safe work practices shall be employed to minimize asbestos fiber exposure during the tear-off period and, in particular, for asbestos shingle roofs, work precautions described in the National Institute of Occupational Safety and Hearth (NIOSH) Health Hazard Evaluation Report No. HETH 84-321 shall be followed.

- Asbestos Material Enclosure Procedures

    - *NSC Abatement Services* will insure construction of an airtight barrier to isolate a surface coated with asbestos-containing material. The barrier for an enclosure job shall be in accordance with EPA and state or local regulations. It is not necessary to have an airtight barrier for piping if the insulation has first been covered with an appropriate sealant or tape.

    - The following procedures shall be adhered to by *NSC Abatement Services* to prevent the contamination of a building:

        - The surface of the asbestos-containing material, which will be disturbed during the installation of hangers, brackets or other enclosure supports shall first be sprayed with amended water or an encapsulant using a low-pressure airless spray.

        - Power drills used to install anchors or other tools, which may disturb asbestos-containing materials, shall be equipped with or used in conjunction with HEPA vacuum filters.

        - Loose and hanging asbestos-containing materials shall be removed while damp and disposed of in accordance with the disposal requirements discussed in the disposal section of this manual.

        - After the installation of hangers, brackets or other supports and before the asbestos-containing material is enclosed, asbestos-containing materials shall be repaired using materials which do not contain asbestos.

        - Enclosures for asbestos-containing material shall be identified by signs, labels, color-coding or some other mechanism to warn persons, who may be required to disturb the enclosure, that asbestos is present.

        - *NSC Abatement Services* shall inform the Owner that the enclosure should be inspected at least annually (by the Owner) to ensure the integrity of the enclosure system.

- Removal of Friable Asbestos-Containing Material

  Engineering methods and controls for the removal of friable asbestos-containing materials is as follows:

    - Filters from all heating, ventilating and air conditioning systems shall be removed and placed in 6-mil plastic bags. The bags will be double bagged with visible labels for disposal as asbestos-containing waste. Excess air will be squeezed out of the bag before sealing with high-quality tape. The bags will be handled in the same manner as removed asbestos.

- *NSC Abatement Services* shall wet clean and/or HEPA vacuum all non-removable, non-asbestos items including built in equipment and cover with two layers of 6-mil poly, taped securely in place.

- *NSC Abatement Services* shall detach and wet-clean removable electrical, heating and ventilating equipment and other items which may be attached/connected to asbestos surfaces. These items shall be removed from the work area and returned to their proper place after decontamination and final air testing provide satisfactory results.

- All openings between the work area and uncontaminated areas such as windows, doorways, elevator openings, roof penetrations, floor and sink penetrations, grilles, diffusers, etc. shall be sealed with two layers of 6-mil plastic sheeting fastened securely in place with tape, adhesive, glue or equivalent. Floor drains shall be sealed individually and covered, as all floors, with two layers of 6-mil plastic. If necessary, temporary walls may be built as barriers.

- Floors shall be covered with two layers of 6-mil plastic sheeting. The first layer shall extend up walls a minimum of 12 inches. The second layer shall extend up sidewalls a minimum of 24 inches. Sheeting shall be sized to minimize the number of seams. No seams shall be located at the points between walls and floors.

- Wall sheeting shall consist of one layer of 6-mil plastic sheeting that will be installed to minimize joints and have no seams located at the corners. Wall sheeting shall overlap floor sheeting a minimum of 18 inches. Wall plastic shall be taped first to the uppermost edge of the wall and shall hang straight down.

- Since all existing ventilation systems in the work area are sealed, an approved HEPA filtration unit, with filters in place, shall be utilized. HEPA filtration units shall be of sufficient number and capacity to assure that the total air volume is exchanged once every 15 minutes, and that a negative-pressure (.02 inches of water) is maintained inside the containment as monitored by a manometer. Each HEPA filtration unit shall be UL-listed for air capacity and shall be capable of filtering asbestos fibers to 0.3 microns at 99.97% efficiency.

- Prior to removal, the asbestos-containing material shall be sprayed with water containing an additive to enhance penetration. The additive or wetting agent will be 50% polyethylene ether and 50% polyoxyethylene ether at a concentration of one ounce per five gallons of water. A fine spray of this solution shall be applied to prevent fiber disturbance preceding the removal of asbestos material. The asbestos will be sufficiently saturated to prevent emission of airborne fibers in excess of the exposure limits prescribed in the OSHA Standard 29 CFR 1926.1101.

- Waste Handling and Removal Procedures for Friable Asbestos-Containing Materials.

  Waste handling and removal procedures for friable asbestos-containing materials are as follows:

  - The asbestos-containing material shall be sprayed with water containing an additive to enhance penetration (amended water) or removal encapsulant. All wetting agents shall be tested on a small area before use to ensure effectiveness. A fine low-pressure spray of this solution shall be applied to prevent fiber disturbance preceding removal. The removal encapsulant or amended water shall be sprayed on as many times and as often as necessary to ensure that the asbestos material is adequately wetted throughout (especially that asbestos nearest the substrate) to prevent dust emission. No dry removal of asbestos is allowed.

  - As a method of organizing the asbestos removal work, workers shall begin working on the areas nearest to the decontamination unit and work towards the HEPA filtration units.

  - Asbestos-containing material located more than 15 feet above the floor shall be dropped into inclined chutes, or dropped onto scaffolding or containerized at that height for eventual disposal. Asbestos-containing materials shall not be dropped or thrown to the floor from 15 feet or greater. For materials located at heights greater than 40 feet above the floor, a dust-tight, enclosed chute shall be constructed to transport removed material directly to containers located on the floor.

  - The wet material from each section shall be packed and sealed into labeled 6-mil plastic bags, double bagged with visible labels, prior to starting the next section. Water-soaked fallen material shall be picked up while wet to prevent water loss due to evaporation.

  - Contaminated material containing sharp edged items shall be bagged or singly bagged and then placed in temporary fiber drums.

40 CFR 61.152 prescribes a leak-tight container, the integrity of which is the responsibility of Infinity.

  - Bags and drums shall be marked with the label prescribed by Section 40 CFR 61.152 of the EPA regulations. The outside of all containers shall be wet-cleaned or HEPA vacuumed before leaving the work area.

- After completion of this removal phase (stripping), all surfaces from which asbestos has been removed shall be scrubbed using nylon or bristle brushes and wet sponged or cleaned by an equivalent method to remove visible asbestos-containing material. During this work, the surfaces being cleaned shall be kept wet using amended water or a removal encapsulant. All disposable equipment shall be packaged for disposal. Containers shall be washed with amended water or a removal encapsulant and shall have all exterior particulate matter removed prior to removal from the contaminated area.

- All accessory equipment shall be moved to the equipment room in sealed polyethylene (6-mil minimum) and decontaminated for removal.

- All free water (in contaminated areas) shall be retrieved and added to asbestos-contaminated waste and/or placed in plastic lined leak-tight drums and/or solidified with an acceptable polymer.

- Final clean up of the work area may commence as outlined in the final clean-up section of this manual.

- Final Clean Up and Restoration of the Work Area for Asbestos Removal Projects.

  - *NSC Abatement Services* shall first clean all surfaces in the work area using a fine spray or mist of amended water or removal encapsulant applied to all surfaces followed by the wet-wiping procedure using disposable cloths. These cloths shall be disposed of or rinsed thoroughly on a frequency sufficient to eliminate visible accumulation of debris. Allow all surfaces to dry before re-entering the work area and proceeding with cleaning process.

  - Notify the asbestos safety technician in writing that a pre-sealant inspection is requested.

  - After completion of cleaning all surfaces in the work area and upon receiving a satisfactory pre-sealant inspection, *NSC Abatement Services* shall spray coat all dried exposed surfaces with a sealant. The color of this coat shall be separate and distinct from the underlying substrate.

  - The surfaces to be coated shall include surfaces from which asbestos-containing materials have been removed (such as ceilings) and polyethylene which has been used to cover walls, floors and non-removable fixtures and equipment.

  - The plastic sheeting used to protect floors, walls, fixtures and equipment shall be carefully removed and rolled up, with the contaminated portion on the inside, and packaged for disposal. Tape and any other debris shall also be disposed of in sealed plastic bags labeled as asbestos-contaminated waste.

- Wet clean, with amended water or a removal encapsulant, all walls, floors, woodwork, ceilings, electric light fixtures and other surfaces. Allow all surfaces to dry and repeat procedure. Cloths or sponges used in the cleaning operation shall be disposed of as contaminated waste.

- Plastic used to maintain critical barriers between work areas and clean areas such as those in doorways, windows and air vents shall be sprayed with encapsulant, but not removed until air monitoring is completed and satisfactory results have been obtained.

- After completion of the cleaning operations, *NSC Abatement Services* shall notify the asbestos safety control monitor that a clean-up inspection can be performed to ensure all visible asbestos has been removed and the area is dust free.

- Upon receiving a satisfactory post-cleaning inspection, *NSC Abatement Services* shall request air sampling of the work area.

- Air monitoring results must indicate asbestos concentrations of no more than .010 f/cc. These results must be achieved before critical barrier removal and restoration activities may begin. If the test results show asbestos fiber concentrations above the acceptance criteria, then clean-up shall be repeated until compliance is achieved by re-cleaning all surfaces using wet methods and operating all HEPA air filtration units to filter the air.

- After the work area is found to be in compliance with the acceptance criteria, *NSC Abatement Services* shall unseal all critical barriers, wash the inside of windows and repair any walls, floors, trim, doors, furniture or other items damaged during the work.

- Notice for a final inspection shall be made by the Owner or *NSC Abatement Services* to the asbestos project monitor.

- Shower Decontamination

    - Water that has been used to clean personnel or equipment shall either be filtered or be collected and discarded as asbestos waste. Shower units shall be wet wiped down and cleaned with water and a HEPA vacuum. All surfaces of the shower unit shall be covered with 2 layers of plastic sheeting. The sheeting shall be secured with duct tape or an equivalent method to provide a tight seal around the object before removing from the area. This procedure would apply to all equipment to be removed off site.

- Bagging Waste

    - All waste being discarded as asbestos-containing material waste shall be thoroughly wetted with amended water and gathered in a 6-mil poly bag. The bag shall be wiped

and placed into another 6-mil poly bag with appropriate labels, wiped again, then goosenecked and duct taped so that no fiber emissions escape.

- When using drums or if drums are required as a means of removal, only one 6-mil poly bag would be appropriate. The bag shall then be placed inside of drums. The drum shall be sealed around the lid and labeled appropriately. Wipe the drum before transporting to waste trailer.

- Disposal of Asbestos Waste and Off-Site Waste Handling for Asbestos Removal Projects.

  Disposal of asbestos waste for asbestos removal projects:

  - All asbestos waste material destined for disposal shall be wetted and packaged in impermeable sealed leak-tight containers (such as 6-mil plastic bags, double bagged with visible labels), in accordance with 40 CFR 61.152, before it can be legally transported and disposed of. No haulage of loose asbestos is permitted. a

  - A detached, secure locked container shall be provided if asbestos waste is to be stored outside unattended.

  - Asbestos waste, which is properly packaged, shall be disposed of at a landfill that is permitted to accept asbestos waste. The asbestos waste container shall be taken to the landfill by a vehicle that is permitted to transport asbestos waste. The landfill used must be permitted and licensed (if applicable) to accept asbestos waste.

  - The waste hauler must possess a valid solid waste transporter registration. A licensed solid waste transporter shall be a commercial collector/hauler or shall be the removal company if they are so registered.

  - Asbestos waste can be hauled in trucks or in dumpster containers provided the load is comprised only of asbestos in bags and does not contain any other waste or asbestos-containing wastes which could compromise the integrity of the permanent containers. In addition, asbestos waste shall not be loaded into or hauled with vehicles containing a compaction device.

  - If rough surfaces or other materials are present in the load, which could potentially puncture the containers, then those containers shall be enclosed in temporary fiber or steel drums during loading, transport and unloading operations.

- Off-Site Waste Handling Procedures

  - *NSC Abatement Services* does not have authority to regulate landfills. However, Infinity will assure that landfills are EPA and state approved to accept and legally dispose of asbestos-containing material.

- Waste haulers must be registered with the Environmental Protection Agency. The hauler, having a permit, must inform proper authorities at least 10 days prior of his intent to dispose of asbestos-containing waste, the volume of waste and anticipated date.

- All vehicles used for the collection and haulage of such waste are to be of a design to preclude any spillage or leakage on road. Collector and haulers of such wastes shall not transport drummed hazardous wastes in damaged, rusted, leaking drums or drums with improperly fitted covers or lids.

- The landfill operator must develop a separate area of landfill, apart from other waste disposal areas. No person may enter an asbestos disposal area at a landfill during the unloading and covering of asbestos and asbestos-containing waste without wearing a respirator. No visible air emissions during or after acceptance and disposal shall be permitted.

- Asbestos waste shall have been sufficiently mixed or coated with water or an aqueous solution and sealed into leak-tight containers.

- Waste sites maintain a daily record of asbestos and asbestos-containing waste received.

Section VI
Material Used During Asbestos Abatement Projects.

Proper Environmental Controls are the key factor in assuring the safety of building personnel, our labor force, the building environment, and the outdoor environment. Certain materials and the proper placement and use of these materials help to assure that airborne asbestos fibers are kept to a minimum inside the work area and do not migrate to adjacent areas outside of the active asbestos abatement work area.
Key Materials that will be used on asbestos abatement projects are:

- 6 mil Fire Retardant Poly Sheeting
- HEPA Filtration Machines
- HEPA Equipped Vacuum Cleaners
- Surfactant
- Encapsulant
- HEPA Filtration Machine Pre Filters (Pad Filters)
- HEPA Filtration Machine Secondary Filters (Ring Filters)
- HEPA Vacuum Dust Collection Bags
- HEPA Vacuum Prefilters (Bonnets)
- Disposable Tyvek Suits (With Hood and Boot)
- Disposable Work Gloves
- Body Shampoo
- Disposable Body Shower Towels

- Spray Adhesive
- Duct Tape/Poly Tape
- P100 Respirator Filters

CLARITY TESTING

OSHA Respirator Clearance (*29 CFR 1910.134*)

Name: Darwin Cedeno

Company/Union: Local 78

Date Cleared: 03/23/2023

Date Fit: 03/23/2023

Mask: North-7700

Respirator: Half-Face

Size: MEDIUM

THIS EMPLOYEE IS MEDICALLY CLEARED TO WEAR A RESPIRATOR

CLARITY TESTING SERVICES

1-888-522-6624

info@claritytesting.com

www.claritytesting.com

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

DARWIN R CEDENO
CLASS(EXPIRES)
A HAND(08/23) G SUPR(08/24)

CERT# 09-08457
DMV# 568019067

MUST BE CARRIED ON ASBESTOS PROJECTS

NYC DEP ASBESTOS CONTROL PROGRAM
ASBESTOS CERTIFICATE

CEDENO,
DARWIN
HANDLER
114535

EXPIRES: 08/05/2025
DOB:08/05/1978 M 5' 09"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

OSHA

Occupational Safety and Health Administration

12-602160385

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Darwin Cedeno

Carl Ford

Trainer Name

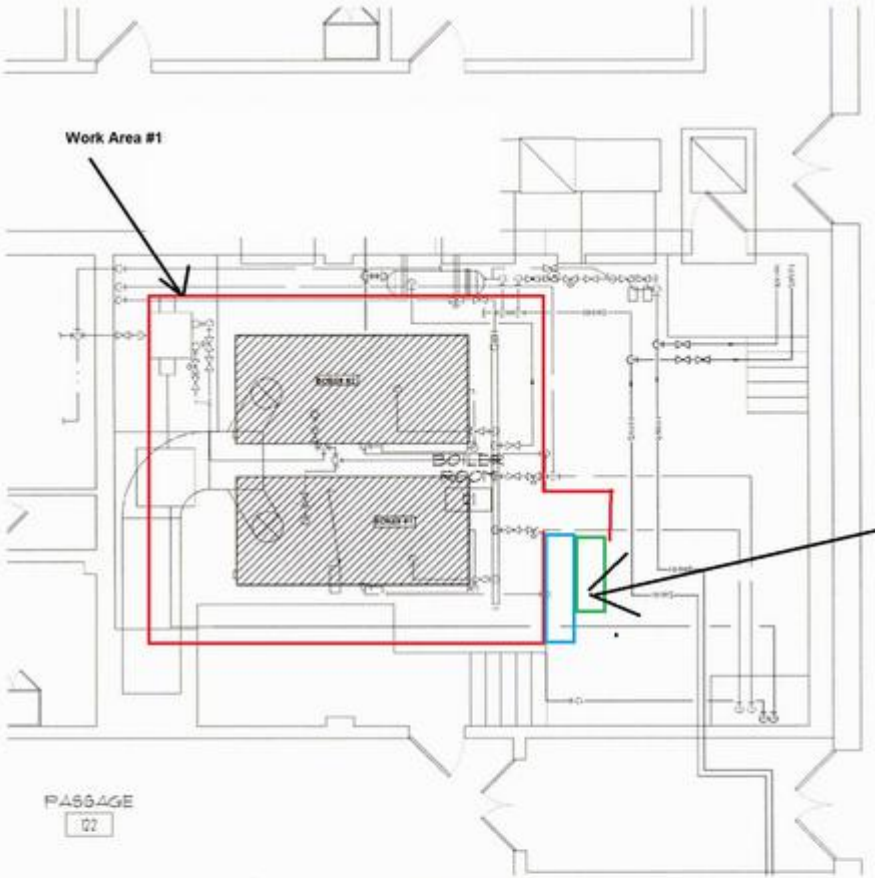
04/14/2019

Date of Issue

ACM LEGEND:

REMOVE AND DISPOSE OF FRIABLE PRESUMED ASBESTOS CONTAINING BOILER INTERIORS.

SEE SPECIFICATION SECTION 23 17 FOR DETAILS.



BOILER ROOM ASBESTOS ABATEMENT PLAN

KEY PLAN

RPC
AA101

STATE OF NEW YORK - DEPARTMENT OF LABOR

ASBESTOS CERTIFICATE

N.Y.S

ELVYN J POZO RAMIREZ

CLASS(EXPIRES)

A HAND(01/24)

CERT# 14-05158

DMV# 827335768

MUST BE CARRIED ON ASBESTOS PROJECTS

Patient: ELVYN J. POZO **DOB:01/28/1978**
Physician: MERCEDES CAMACHO, FNP **DOS: 01/07/2023**

OCCUPATIONAL AND COMMUNITY HEALTH SERVICES
3300 Hudson Avenue, Union City, NJ 07087
Tel: (201) 325-8002 Fax: (201) 325-9718 E-mail: ochsclinic@yahoo.com

MEDICAL EVALUATION: ASBESTOS WORK

Last Name	First Name	Social Security Number	Date of Birth
POZO	ELVYN	350-95-9761	01/28/1978
Address		Apartment Number	Male/Female
3 ORCHARD AVE		3	Male
City	State/Province	Postal Code	Home Phone
GARFIELD	NJ	07026	3475954547
Emergency Contact Person		Emergency Contact Telephone	
ANA GUTIERREZ		347-604-4856	

The patient indicated above has been evaluated on 01/07/2023 in compliance with

OSHA Asbestos Medical Screening and Surveillance standard 1910.1001 (29CFR.)

MEDICAL HISTORY REPORT

OSHA Standard 1910.134 App C Questionnaire for respiratory protection X unremarkable significant finding
OSHA Standard 1926.1101 App D Questionnaire for asbestos workers X unremarkable Significant finding
Patient is: X non-smoker smoker ____cigarettes/day X ____years quit smoking on _____after _____years
Last Chest X-ray dated _____, results: normal abnormal _____
Respiratory system evaluation within normal limits deviations from normal _____
Gastrointestinal system evaluation within normal limits deviations from normal _____
Cardiovascular system evaluation within normal limits deviations from normal _____

PHYSICAL EXAMINATION REPORT:

Blood pressure 120/80 HR 85 RR 17 HT 6'2" WT 224 lb. Visual acuity: Lt. Eye _____ Rt. Eye _____
Pulmonary function test X normal abnormal results attached
Electrocardiogram (per clinician discretion) normal significant deviations from normal N/A
Physical examination X within acceptable limits significant deviations from normal
Chest X-ray: not indicated ordered normal abnormal results pending

RESULTS:

X **ABLE TO WORK IN ASBESTOS AND WEAR RESPIRATORY PROTECTION WITHOUT RESTRICTION**
ABLE TO WORK IN ASBESTOS AND WEAR RESPIRATORY PROTECTION WITH RESTRICTIONS
CLEARANCE DENIED POSTPONED NEEDS FURTHER EVALUATION OR FOLLOW-UP

SPECIFIC RECOMMENDATIONS:

1. Do not smoke cigarettes. **2. Always wear respirator mask while at work**

PATIENT EDUCATION

The patient has been informed of the risks involved in asbestos work and of [he increased risk of lung cancer attributable [0 the combined effects of smoking and asbestos exposure, and of the increased risk with higher intensity and duration of exposure. The results of this medical evaluation for use of respirators and asbestos work have been explained to me (patient). 'Los resultados de esta evaluacion medica han sido exp/icados a mi persona

THIS MEDICAL EVALUATION REPORT EXPIRES ON: 01/07/2024

This report must be accompanied by numeric and graphical printout of the spirometry results.
Original report and all copies must bear the OCHS watermark seal.

MERCEDES CAMACHO, DNP, APN, FNP-BC 01/07/2023 01/07/2023
Signature of Licensed Health Care Provider Date Patient Signature Date

Patient: ELVYN POZO **DOB:01/28/1978**
Physician: MERCEDES CAMACHO, FNP **DOS: 01/07/2023**

OCHS
OCCUPATIONAL & COMMUNITY HEALTH SERVICES
3300 Hudson Avenue, Union City, NJ 07087
Tel: (201) 325-8002 Fax: (201) 325-9718 E-mail: ochsclinic@yahoo.com

QUALITATIVE RESPIRATOR FIT TEST REPORT

FIT TEST RECORD NUMBER	FIT TEST DATE	EXPIRATION DATE
	01/07/2023	01/07/2024
FIRST NAME	**LAST NAME**	**SOCIAL SECURITY NUMBER**
ELVYN	POZO	350-95-9761

RESPIRATION DATA

TYPE:APR HALF FACE

MANUFACTURER:NORTH

MODEL: 7700-30

SIZE:MEDIUM

TESTING AGENT: BITTER/AMER

POSITIVE PRESSURE TEST:PASS

NEGATIVE PRESSURE TEST:PASS

NORMAL BREATHING:PASS

DEEP BREATHING:PASS

TURN HEAD SIDE TO SIDE:PASS

NOD HEAD UP AND DOWN:PASS

TALK ALOUD:PASS

JOG IN PLACE:PASS

FACIAL HAIR:NONE

MERCEDES CAMACHO, DNP, APN, FNP-BC
SIGNATURE OF TESTER
DATE: 01/07/2023

SIGNATURE OF RESPIRATOR USER
ORIGINAL MUST BEAR ISES WATER MARK SEAL

LEGAL NOTICE / NOTA LEGAL: This fit-test is personal. The alteration of this document for fraudulent purposes is a federal crime. La alteracion de este doel/mento para usos fraudulentos es un crimen federal.

OCCUPATIONAL AND COMMUNITY
3300 HUDSON AUE
UNION CITY NJ07087
2013258002

EasyOne[TM] FRONTLINE US 6.7
(c)ndd 2000-2011
EasyWare 2.25.0.0 - 01/07/2023 10.03
SN 116398 RecNo 2009

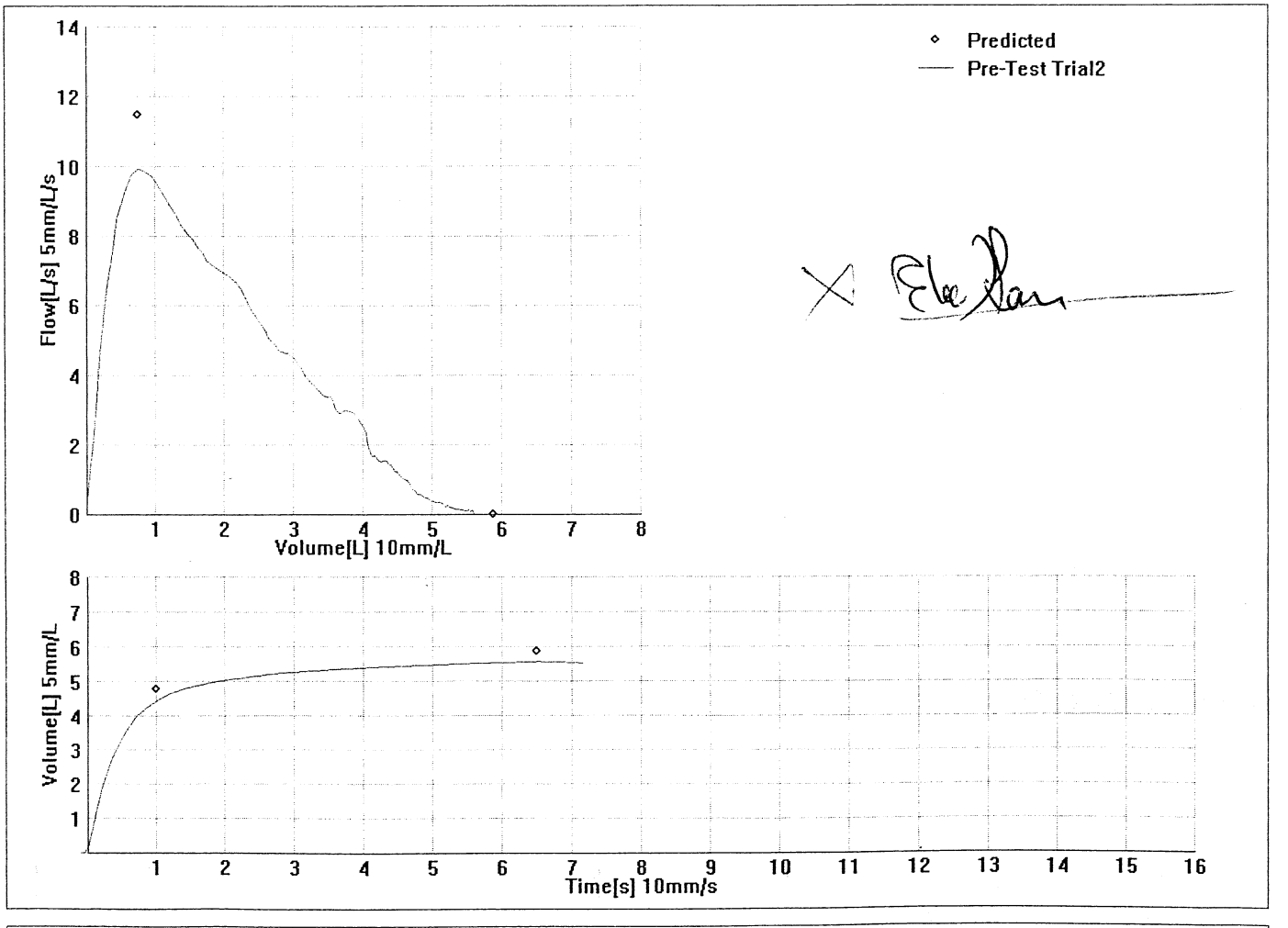
Patient Information	
Name	ELVYN POZO
ID	350959761
Age	40
Height	6 ft 2 in
Weight	224 lbs,BMI 28.7
Gender	MALE
Ethnic	HISPANIC
Smoker	NO
Asthma	NO

Test Information	
Test Date/Time	01/07/2023 10.03
Post Time	--:--
Test Mode	FRONTLINE
Syst. Interpret.	NLHEP
Predicted Ref	Nhanes III
Value Select	BEST VALUE
Tech ID	
Automated QC	ON
BTPS (IN/EX)	-.-/ 1.02

FVC Test Results — Your FEV1 is 93% Predicted

Parameter	Best	Pred	%Pred
FVC[L]	5.6	5.9	95
FEV1[L]	4.4	4.8	93
FEV1/FVC[%]	79.7	81.2	98
PEF[L/min]	595.6	689.7	86

Pre-Test — FEV1 Var=0.10L 2.2%;FVC Var=0.10L 1.7%;Session Quality D
Syst. Interpret. — Normal, but the values shouldn't be used for comparisons with other tests
Caution: Only One Acceptable Maneuver - Interpret With Care.



OSHA

Occupational Safety
and Health Administration

12-602070378

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

ELVYN JOAQUIN P.

MANUEL FIALLOS

Trainer Name

09/14/2018

Date of Issue

Suffern CSD: RP Connor – Boiler Conversion

ESTIMATE OF ACM QUANTITIES

****

EACH ABATEMENT CONTRACTOR SHALL READ AND ACKNOWLEDGE THE FOLLOWING NOTICE. A SIGNED AND DATED COPY OF THIS ACKNOWLEDGMENT SHALL BE SUBMITTED WITH THE ABATEMENT CONTRACTOR'S BID FOR THIS PROJECT. FAILURE TO DO SO MAY, AT THE SOLE DISCRETION OF THE OWNER, RESULT IN THE BID BEING CONSIDERED NON-RESPONSIVE AND RESULT IN DISQUALIFICATION OF THE ABATEMENT CONTRACTOR'S BID ON THIS PROJECT.

****

*** **NOTICE** ***

The linear and square footages listed within this specification are approximates. Abatement Contractor is required to visit the work locations prior to bid submittal in order to take actual field measurements within each listed location. The Abatement Contractor shall base their bid on actual quantities determined, by them, at the site walkthrough. Estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project.

****

Acknowledgment: I have read and understand the above **NOTICE** regarding removal quantity estimates and understand that estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project. The Abatement Contractor's signatory represents to the Owner that he/she has the authority of the entity he/she represents to sign this agreement on its behalf.

Company Name: NSC Abatement Services, Inc
Type or Print

BY: _____ Project Manager 11/12/24
Signature Title Date

Print Name: Kevin Fox

Asbestos Employee Medical Examination Statement
Certificate of Worker Release
Asbestos Employee Training Statement
CERTIFICATE OF WORKERS'S ACKNOWLEDGEMENT

PROJECT NAME: **Suffern CSD: RP Connor – Boiler Conversion**

CONTRACTOR'S NAME: NSC Abatement Services, Inc

WORKING WITH ASBESTOS INVOLVES POTENTIAL EXPOSURE TO AIRBORNE ASBESTOS FIBERS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER AND RESPIRATORY DISEASES. SMOKING CIGARETTES AND INHALATION OF ASBESTOS FIBERS INCREASES THE RISK THAT YOU WILL DEVELOP LUNG CANCER ABOVE THAT OF THE NON-SMOKING PUBLIC.

The Contract for this project requires your employer to 1) supply proper respiratory protection devices and training on their use 2) provide training on safe work practices and on use of the equipment used on the project 3) provide a medical examination meeting the requirements of 29 CFR 1926.1101. Your signature on this certificate, documents that your employer has fulfilled these contractual obligations and you understand the information presented to you.

************DO NOT SIGN THIS FORM UNLESS YOU FULLY UNDERSTAND THIS INFORMATION*********

RESPIRATORY PROTECTION: I have been trained in the proper use and limitations of the type of respiratory protection devices to be used on this project. I have reviewed the written respiratory protection program manual and a copy is available for my use. Respiratory protection equipment has been proved, by the Contractor, at no cost to me.

TRAINING COURSE: I have been trained in the risks and dangers associated with handling asbestos, breathing asbestos dust, proper work procedures, personal protection and engineering controls. I have satisfactorily completed and Asbestos Safety Training Program for New York State and have been issued a New York State Department of Health Certificate of Asbestos Safety Training.

MEDICAL EXAMINATION: I have satisfactorily completed a medical examination within the last 12 months that meets the OSHA requirement for an asbestos worker and included at least 1) medical history 2) pulmonary function 3) medical examination 4) approval to wear respiratory protection devises and may have included an evaluation of a chest x-ray.

Signature: Kevin Fox Date 1/12/24

Printed Name: Kevin Fox SS#: 8900

Witness: William D'Amon Date: 1/12/2024

ANDO International., Inc.

Safety & Environmental Training • Consulting

QUALITATIVE RESPIRATORY FIT TEST

This Respirator Fit Test is valid for the period of twelve (12) months from the date of test.

Name: Lisandy Beato Diaz

Address 2285 Andrews Ave Bronx, NY 10468 Apt 2F

SSN: 1206 DOB: 08/29/01 TEL. 718-879-0268

RESPIRATORS TESTED - SUCCESSFUL TEST

Test Agent : 1. Irritant Smoke __X__ 2. Odorous Vapor ____ 3. Taste Test ____

HALF FACE MASK ONLY

BRAND NAME (1) Honeywell NORTH (2) #7700 SIZE (1) Medium (2) ____

TEST DATE 1-29-2023 FIT TEST NUMBER 1292023-HF-EF-001

Name of person performing respiratory fit test EDWARD FRAWLEY

Signature Edward Frawley

ANDO International Inc
44-01 21st ST
Long Island City, NY 11101

ANDO INTERNATIONAL EST. 1991 TRAINING NEW YORK

STATE OF NEW YORK - DEPARTMENT OF LABOR

ASBESTOS CERTIFICATE

N.Y.S

LISANDY BEATO DIAZ

CLASS(EXPIRES)

A HAND (08/24)

CERT# 23-61DXJ-SHAB

DMV# 214617383

MUST BE CARRIED ON ASBESTOS PROJECTS

New York City Department of Environmental Protection
Asbestos Control Program
59-17 Junction Boulevard, 8th Floor
Flushing, New York 11373

Application for Asbestos Investigator

Appendix A

Medical Examination for Asbestos Investigators

Applicant Name: Lisandy Beato Diaz

Home Address: 2285 Andrews Ave

City, State and Zip Code: Bronx, NY 10468

Telephone Number: 718 879 0268

Date of Birth: 08/29/2001

Social Security Number: ___-___-___

Based upon the medical examination which included pulmonary function tests of vital capacity (FVC) and forced expiratory volume at one second (FEV_1), and an evaluation of a recent chest roentgenogram, it is my opinion that the above named patient (please check appropriate box)

☒ is ☐ is not

physically qualified to wear a respirator in the performance of his/her job.

Limitations: ______________________________

Carlos J Serrano
Print Name of Physician

01/25/2023
Date of Examination

Signature of Physician

[illegible]
State License Number

DR. CARLOS J. SERRANO
CIVIL SURGEON NY
[illegible]
[illegible] Heights, N.Y. [illegible]
Tel (718) 507-9878 Fax (718) 507-9884
Address

Telephone Number

Please do not include any other medical information with this form.

OSHA

Occupational Safety
and Health Administration

12-602461381

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Lisandy Beato Diaz

Jaime Coro[illegible]

Trainer Name

01/26/2023

Date of Issue

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

REYMI ABUD FERNANDEZ
CLASS(EXPIRES)
A HAND (08/24)

CERT# 23-6T9E4-SHAB
DMV# 377316092

MUST BE CARRIED ON ASBESTOS PROJECTS

NYC DEP ASBESTOS CONTROL PROGRAM
ASBESTOS CERTIFICATE

ABUD FERNANDEZ,
REYMI
HANDLER
137936

EXPIRES: 08/25/2025
DOB:08/25/1989 M 5' 08"

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

OSHA
Occupational Safety and Health Administration

12-602210501

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Reymi Abud Fernandez

Jaime Cordero
Trainer Name

08/08/2019
Date of Issue

ANDO International, Inc.

Safety & Environmental Training • Consulting

QUALITATIVE RESPIRATORY FIT TEST

This Respirator Fit Test is valid for the period of twelve (12) months from the date of test.

Name: Reymi Abud Fernandez

Address: 1161 LongFellow Av Bronx NY #2

SSN: 108-90-9998 DOB: 8/23/89 TEL: 646-453-9402

RESPIRATORS TESTED - SUCCESSFUL TEST

Test Agent: 1. Irritant Smoke _X_ 2. Odorous Vapor ___ 3. Taste Test ___

HALF FACE MASK ONLY

BRAND NAME (1) Honeywell NORTH (2) #770 SIZE (1) medium (2) ___

TEST DATE 7-8-2023 FIT TEST NUMBER 7820231HF-CF-014

Name of person performing respiratory fit test: Edward Frankey

Signature: [signature]

ANDO International Inc
44-01 21st St
Long Island City, NY 11101

44-01 21st Street 3rd Floor Long Island City, NY 11101 • Tel: 718/349-3235 • Fax: (718)349-3238
www.andointernational.com

Medical evaluation for respiratory protection

In compliance with 29 CFR 1910.134 Respiratory Protection Standard and CFR 1926.1101 Asbestos Exposure in Construction

ANDO-MED, INC
44-01 21st St. 3rd Fl.
Long Island City, NY 11101
tel.:(718) 349-3235

All the information that you provide in this questionnaire is strictly confidential and will become part of your medical record.

Date: 07/8/23

Patient Information

Patient SSN: 108-90-9998 Patient Name: (First/MI/Last) Reymi Abud Fernandez	Sex: M	Date of Birth: (mm/dd/yyyy) 08/23/1989
Patient address: 1161 LongFellow Av Bronx NY #2		
Telephone number: 646-453-9402		

Examination

HEIGHT	WEIGHT	BP	PULSE	RESP
5'09	186	110/66	84	13

Have you ever had any respiratory problems:
shortness of breath: No
chest pain:
wheezing:

Tobacco: No	Do you use tobacco?..... ○ Currently ○ Previously ☒ Never	
	If previously, when did you quit?	How many per day?

The above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Based upon medical examination which included pulmonary function test it is my opinion that the above named patient

IS (circled) **IS NOT**

physically qualified to wear a respirator in the performance of his/her job.

[stamp]

print name of physician ______ signature of physician ______

01213 006915765 97

NEW YORK STATE OF OPPORTUNITY. Department of Labor

YANUEL RODRIGUEZ

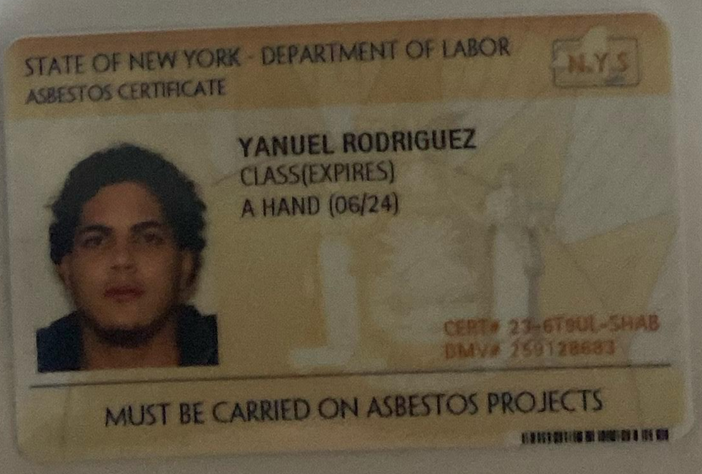
2664 GRAND CONCOURSE APT 1D
BRONX New York 10458

Enclosed is your new card.

NYS Department of Labor

The Department of Labor is happy to provide this improved card. We welcome your comments: nysdol@labor.ny.gov or call (518) 457-2735

YOUR NEW CARD



Medical evaluation for respiratory protection

In compliance with 29.CFR 1910.134 Respiratory Protection Standard and CFR 1926.1101

Asbestos Exposure in Construction

ANDO-MED, INC
44-01 21st St. 3rd Fl.
Long Island City, NY 11101
tel.:(718) 349-3235

All the information that you provide in this questionnaire is strictly confidential and will become part of your medical record.

Date: 12/13/2022

Patient Information

Patient SSN: 0925 Patient Name: (First/MI/Last) Yanuel Rodriguez	Sex: Male	Date of Birth: (mm/dd/yyyy) 06/28/2000
Patient address: 2664 grand concourse 1D Bronx NY		
Telephone number: 929-351-4246		

Examination

HEIGHT:	WEIGHT:	BP:	PULSE:	RESP:
6'00	248 lbs	134/61	61	13

Have you ever had any respiratory problems:
shortness of breath: No
chest pain:
wheezing:

Tobacco: No	Do you use tobacco?..... O Currently O Previously O Never
	If previously, when did you quit?..... How many per day?.....

The above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Based upon medical examination which included pulmonary function test it is my opinion that the above named patient

IS **IS NOT**

physically qualified to wear a respirator in the performance of his/her job.

RENATA UKOWSKA MD
Attending Ph... MED
BHN # 409333 Lic # 251...58
NPI # 1467698263 MMIS # 698568

print name of physician

signature of physician

OSHA
Occupational Safety
and Health Administration

12-602456931

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Yanuel Rodriguez

Jaime Cordero
Trainer Name

01/06/2023
Date of Issue

ANDO International., Inc.

Safety & Environmental Training • Consulting

QUALITATIVE RESPIRATORY FIT TEST

This Respirator Fit Test is valid for the period of twelve (12) months from the date of test.

Name: Yanuel Rodriguez

Address 2664 grand concourse Bronx NY 10458

SSN: 0925 **DOB:** 06/28/00 **TEL.** 929-351-4246

RESPIRATORS TESTED - SUCCESSFUL TEST

Test Agent : 1. Irritant Smoke X **2. Odorous Vapor** ___ **3. Taste Test** ___

HALF FACE MASK ONLY

BRAND NAME (1) NORTH **(2)** #7700 **SIZE (1)** Large **(2)** ___

TEST DATE 12/13/2022 **FIT TEST NUMBER** 5222021-HF-EF-003

Name of person performing respiratory fit test EDWARD RAWLEY

Signature Edward Rawley

ANDO International Inc
44-01 21st ST
Long Island City, NY 11101

ANDO International., Inc.

Safety & Environmental Training • Consulting

QUALITATIVE RESPIRATORY FIT TEST

This Respirator Fit Test is valid for the period of twelve (12) months from the date of test.

Name: Engel felix

Address 719 e 233 st Bx, NY 10466

SSN: 089-94-9919 **DOB:** 04/16/95 **TEL.** 347-740-9347

RESPIRATORS TESTED - SUCCESSFUL TEST

Test Agent : 1. Irritant Smoke _X_ **2. Odorous Vapor** ___ **3. Taste Test** ___

HALF FACE MASK ONLY

BRAND NAME (1) NORTH Honeywell **(2)** #7700 **SIZE (1)** medium **(2)** ___

TEST DATE 3-18-2022 **FIT TEST NUMBER** 3182022-HF EF 007

Name of person performing respiratory fit test Edward Fawley

Signature Edward Fawley

ANDO International Inc
44-01 21st ST
Long Island City, NY 11101

#2

Medical evaluation for respiratory protection

In compliance with 29.CFR 1910.134 Respiratory Protection Standard and CFR 1926.1101
Asbestos Exposure in Construction

ANDO-MED, INC
44-01 21st St. 3rd Fl.
Long Island City, NY 11101
tel.:(718) 349-3235

All the information that you provide in this questionnaire is strictly confidential and will become part of your medical record.

Date: 03/18/2023

Patient Information

Patient SSN: Engel Felix Patient Name: (First/MI/Last) 089-94-9919	Sex: M	Date of Birth: (mm/dd/yyyy) 04/16/1995
Patient address: 719e 233st Bx,NY 10466 Apt# 11		
Telephone number: 347-740-9347		

Examination

HEIGHT:	WEIGHT:	BP:	PULSE:	RESP:
5'7	145	103/55	77	13

Have you ever had any respiratory problems:
shortness of breath: No
chest pain:
wheezing:

Tobacco:	
No	Do you use tobacco?..... ○ Currently ○ Previously ○ Never
	If previously, when did you quit?..... How many per day?.....

The above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Based upon medical examination which included pulmonary function test it is my opinion that the above named patient

IS / **IS NOT**

physically qualified to wear a respirator in the performance of his/her job.

RENATA UKOWSKA MD
Attending Physician MED
NPI # 1467[illegible]333 Lic # 251258
NBHN # 4[illegible]63 MMIS # 698866

print name of physician

signature of physician

OSHA

Occupational Safety
and Health Administration

12-602353194

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Engel Felix Moreno

Jaime Cordero

Trainer Name

02/24/2022

Date of Issue

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

ENGEL FELIX
CLASS(EXPIRES)
A HAND(04/24)

CERT# 15-08309
DMV# 990006100

MUST BE CARRIED ON ASBESTOS PROJECTS

SITE SAFETY TRAINING

SITE SAFETY

Engel Felix Moreno

ID:JTQT78SXJF

ISSUED:05/26/2023

EXPIRY:05/26/2028

OSHA

Occupational Safety and Health Administration

12-602361953

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Reynaldo Hernandez de la Cruz

Jaime Cordero

Trainer Name

05/05/2022

Date of Issue

ANDO
International., Inc.

Safety & Environmental Training • Consulting

QUALITATIVE RESPIRATORY FIT TEST

This Respirator Fit Test is valid for the period of twelve (12) months from the date of test.

Name: Bernardo Hernandez

Address: 42 Hawkins ST APT 1 New Yonkers, NY 10701

SSN: 628-43-7885 DOB: 05/24/ TEL. 646-377-9024

RESPIRATORS TESTED - SUCCESSFUL TEST

Test Agent : 1. Irritant Smoke _X_ 2. Odorous Vapor _—_ 3. Taste Test _—_

HALF FACE MASK ONLY

BRAND NAME (1) Honeywell NORTH (2) #7700 SIZE (1) Large (2) —

TEST DATE 5-20-2023 FIT TEST NUMBER 5202023-IF-EF-003

Name of person performing respiratory fit test: Edward Fowler

Signature: Edward Fowler

ANDO International Inc
44-01 21st ST
Long Island City, NY 11101

44-01 21st Street 3rd Floor Long Island City, NY 11101 • Tel: 718)349-3235 • Fax: (718)349-3238
www.andointernational.com

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

REYNALDO HERNANDEZ
CLASS(EXPIRES)
A HAND(05/24)

CERT# 18-56675
DMV# 448043068

MUST BE CARRIED ON ASBESTOS PROJECTS

Medical evaluation for respiratory protection

In compliance with 29.CFR 1910.134 Respiratory Protection Standard and CFR 1926.1101
Asbestos Exposure in Construction

ANDO-MED, INC
44-01 21st St. 3rd Fl.
Long Island City, NY 11101
tel.:(718) 349-3235

All the information that you provide in this questionnaire is strictly confidential and will become part of your medical record.

Date: 05/20/2023

Patient Information

Patient SSN: Patient Name: (First/MI/Last) Reynaldo Hernandez	Sex: M	Date of Birth: (mm/dd/yyyy) 03/24/1998
Patient address:		
Telephone number: 646-377-9024		

Examination

HEIGHT:	WEIGHT:	BP:	PULSE:	RESP:
6'01	198 lbs	105/65	83	13

Have you ever had any respiratory problems:
shortness of breath:
chest pain: No
wheezing:

Tobacco:	
No	Do you use tobacco?...... ○ Currently ○ Previously ⊗ Never
	If previously, when did you quit?................... How many per day?.......

The above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Based upon medical examination which included pulmonary function test it is my opinion that the above named patient

IS (circled) **IS NOT**

physically qualified to wear a respirator in the performance of his/her job.

RENATA UKOWSKA MD

print name of physician

signature of physician

NSC Abatement Services Inc.

122 East 3rd Street Mount Vernon NY 10550
Tel. (914) 668-4111 Fax. (914) 668-4112

PROJECT SUPERVISOR INFORMATION:

NAME: **Kevin Fox**

ADDRESS: **448 Locust Street**
Mount Vernon, NY 10552

SS#: *****-**-8900**

NYS DOL ASBESTOS SUPERVISOR CERT#: 98-00240

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. 3A-1004

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

NSC ABATEMENT SERVICES, INC.
122 EAST 3RD STREET
MOUNT VERNON, NY 10550

CONTACT NAME: PABLO BERHAU
COUNTY: WESTCHESTER
TELEPHONE NO: (914)668-4111

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 12/31/2023
EXPIRATION DATE: **12/30/2024**
US EPA ID NUMBER:

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY:

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
MINERVA ENTERPRISES INC	WAYNESBURG , OH	Non-Hazardous Industrial/Commercial Asbestos	

NOTE: By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the Environmental Conservation Law, all applicable regulations, and the General Conditions printed on the back of this page.

ADDRESS:

New York State Department of Environmental Conservation
Division of Materials Management - Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7251

AUTHORIZED SIGNATURE: Laura Stevens Digitally signed by Laura Stevens Date: 2023.11.03 12:55:58 -04'00' Date: ____/____/____

WASTE TRANSPORTER PERMIT

GENERAL CONDITIONS

The permittee must:

1. Carry a copy of this waste transporter permit in each vehicle to transport waste. Failure to produce a copy of the permit upon request is a violation of the permit.

2. Display the full name of the transporter on both sides of each vehicle and display the waste transporter permit number on both sides and rear of each vehicle containing waste. The displayed name and permit number must be in characters at least three inches high and of a color that contrasts sharply with the background.

3. Transport waste only in authorized vehicles. An authorized vehicle is one that is listed on this permit.

4. Submit to the Department a modification application for additions/deletions to the authorized fleet of vehicles. The permittee must wait for a modified permit before operating the vehicles identified in the modification application.

5. Submit to the Department a modification application to add a new waste category or a new destination facility, or to change the current waste or destination facility category. The permittee must wait for a modified permit before transporting new waste types or transporting to new destination facilities.

6. Submit to the Department a modification application for change of address or company name.

7. Comply with requirements for placarding and packaging as set forth in New York State Transportation Law as well as any applicable federal rules and regulations.

8. Contain all wastes in the vehicle so there is no leaking, blowing, or other discharge of waste.

9. Use vehicles to transport only materials not intended for human or animal consumption unless the vehicle is properly cleaned.

10. Comply with requirements for manifesting hazardous waste, regulated medical waste, or low-level radioactive waste as set forth in the New York State Environmental Conservation Law and the implementing regulations. Transporters who provide a pre-printed manifest to a generator/shipper/ offeror of regulated waste shall ensure that all information is correct and clearly legible on all copies of the manifest.

11. Deliver waste only to transfer, storage .. treatment and disposal facilities authorized to accept such waste. Permittee must demonstrate that facilities are so authorized if requested to do so.

12. Maintain liability insurance as required by New York State Environmental Conservation Law.

13. Maintain records of the amount of each waste type transported to each destination facility on a calendar-year basis. The transporter is obligated to provide a report of this information to the Department at the time of permit renewal, or to any law enforcement officer, if requested to do so.

14. Pay regulatory fees on an annual basis. Non-payment may be cause for revocation or suspension of permit.

15. This permit is not transferrable. A change of ownership will invalidate this permit.

16. This permit does not relieve the permittee from the obligation to obtain any other approvals or permits, or from complying with any other applicable federal, state, or local requirement.

17. Renewal applications must be submitted no less than 30 days prior to the expiration date of the permit to:

New York State Department of Environmental Conservation
Division of Materials Management, Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7251

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. 3A-1004

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

NSC ABATEMENT SERVICES, INC.
122 EAST 3RD STREET
MOUNT VERNON, NY 10550

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

CONTACT NAME:	PABLO BERHAU	EFFECTIVE DATE:	12/31/2023
COUNTY:	WESTCHESTER	EXPIRATION DATE:	**12/30/2024**
TELEPHONE NO:	(914)668-4111	US EPA ID NUMBER:	

AUTHORIZED VEHICLES:
The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:

(Vehicles enclosed in <>'s are authorized to haul Residential Raw Sewage and/or Septage only)

2 (Two) Permitted Vehicle(s)

NY 30643ML
NY 30644ML
End of List

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. 1A-371

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

ASBESTOS TRANSPORTATION COMPANY, INC.
2 MORICHES MIDDLE ISLAND ROAD
SHIRLEY, NY 11967

CONTACT NAME: GARY CRETTY
COUNTY: SUFFOLK
TELEPHONE NO: (631)924-5050

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

EFFECTIVE DATE: 05/01/2023
EXPIRATION DATE: **04/30/2024**
US EPA ID NUMBER: NY0000148163

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY:

The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
110 Sand Company Clean Fill Disposal Site	Melville , NY	Non-Hazardous Industrial/Commercial	non-friable asbestos
A & L SALVAGE, INC.	LISBON , OH	Non-Hazardous Industrial/Commercial Asbestos	
Action Trucking Company	Wantagh , NY	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
ALLIANCE SANITARY LANDFILL	TAYLOR , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
ALLIED WASTE SYSTEMS OF PA LLC	IMPERIAL , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Waste Tires	
AMERICAN LAMP RECYCLING, LLC	MARLBORO , NY	Non-Hazardous Industrial/Commercial Hazardous Industrial/Commercial	
BETHLEHEM LANDFILL	BETHLEHEM , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NOTE: By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the Environmental Conservation Law, all applicable regulations, and the General Conditions printed on the back of this page.

ADDRESS:

New York State Department of Environmental Conservation
Division of Materials Management - Waste Transporter Program
625 Broadway, 9th Floor
Albany, NY 12233-7251

AUTHORIZED SIGNATURE: Laura Stevens Digitally signed by Laura Stevens Date: 2023.03.08 14:36:30 -05'00' Date:____/____/____

WASTE TRANSPORTER PERMIT

GENERAL CONDITIONS

The permittee must:

1. Carry a copy of this waste transporter permit in each vehicle to transport waste. Failure to produce a copy of the permit upon request is a violation of the permit.

2. Display the full name of the transporter on both sides of each vehicle and display the waste transporter permit number on both sides and rear of each vehicle containing waste. The displayed name and permit number must be in characters at least three inches high and of a color that contrasts sharply with the background.

3. Transport waste only in authorized vehicles. An authorized vehicle is one that is listed on this permit.

4. Submit to the Department a modification application for additions/deletions to the authorized fleet of vehicles. The permittee must wait for a modified permit before operating the vehicles identified in the modification application.

5. Submit to the Department a modification application to add a new waste category or a new destination facility, or to change the current waste or destination facility category. The permittee must wait for a modified permit before transporting new waste types or transporting to new destination facilities.

6. Submit to the Department a modification application for change of address or company name.

7. Comply with requirements for placarding and packaging as set forth in New York State Transportation Law as well as any applicable federal rules and regulations.

8. Contain all wastes in the vehicle so there is no leaking, blowing, or other discharge of waste.

9. Use vehicles to transport only materials not intended for human or animal consumption unless the vehicle is properly cleaned.

10. Comply with requirements for manifesting hazardous waste, regulated medical waste, or low-level radioactive waste as set forth in the New York State Environmental Conservation Law and the implementing regulations. Transporters who provide a pre-printed manifest to a generator/shipper/ offeror of regulated waste shall ensure that all information is correct and clearly legible on all copies of the manifest.

11. Deliver waste only to transfer, storage .. treatment and disposal facilities authorized to accept such waste. Permittee must demonstrate that facilities are so authorized if requested to do so.

12. Maintain liability insurance as required by New York State Environmental Conservation Law.

13. Maintain records of the amount of each waste type transported to each destination facility on a calendar-year basis. The transporter is obligated to provide a report of this information to the Department at the time of permit renewal, or to any law enforcement officer, if requested to do so.

14. Pay regulatory fees on an annual basis. Non-payment may be cause for revocation or suspension of permit.

15. This permit is not transferrable. A change of ownership will invalidate this permit.

16. This permit does not relieve the permittee from the obligation to obtain any other approvals or permits, or from complying with any other applicable federal, state, or local requirement.

17. Renewal applications must be submitted no less than 30 days prior to the expiration date of the permit to:

New York State Department of Environmental Conservation
Division of Materials Management, Waste Transporter Program
625 Broadway, 9th Floor
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. 1A-371

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

ASBESTOS TRANSPORTATION COMPANY, INC.
2 MORICHES MIDDLE ISLAND ROAD
SHIRLEY, NY 11967

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

CONTACT NAME:	GARY CRETTY	EFFECTIVE DATE:	05/01/2023
COUNTY:	SUFFOLK	EXPIRATION DATE:	**04/30/2024**
TELEPHONE NO:	(631)924-5050	US EPA ID NUMBER:	NY0000148163

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
CHEMICAL WASTE MANAGEMENT	EMELLE , AL	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial	
CLEAN EARTH OF NORTH JERSEY	KEARNY , NJ	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
CLEAN HARBORS DEER PARK	LAPORTE , TX	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
CLEAN HARBORS OF BALTIMORE	BALTIMORE , MD	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
CLEAN HARBORS OF CONNECTICUT	BRISTOL , CT	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial	
CONESTOGA LANDFILL	MORGANTOWN , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
CUMBERLAND COUNTY LANDFILL (PA DEP 100945)	SHIPPENSBURG , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
CWM CHEMICAL SERVICES LLC	MODEL CITY , NY	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. 1A-371

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2 MORICHES MIDDLE ISLAND ROAD
SHIRLEY, NY 11967

PERMIT TYPE:

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☐ MODIFICATION

CONTACT NAME:	GARY CRETTY	EFFECTIVE DATE:	05/01/2023
COUNTY:	SUFFOLK	EXPIRATION DATE:	**04/30/2024**
TELEPHONE NO:	(631)924-5050	US EPA ID NUMBER:	NY0000148163

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
CWM CHEMICAL SERVICES LLC	MODEL CITY , NY	Hazardous Industrial/Commercial Waste Oil	
CYCLE CHEM (NJ)	ELIZABETH , NJ	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
EQ OF DETROIT	DETROIT , MI	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
FRANK ROAD RECYCLING SOLUTIONS	COLUMBUS , OH	Non-Hazardous Industrial/Commercial Asbestos	
GRAND CENTRAL SANITARY LANDFILL	PEN ARGYL , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
GROWS LANDFILL NORTH (PA DEP 101680)	MORRISVILLE , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
IESI-BLUE RIDGE LANDFILL	CHAMBERSBURG , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
MEADOWFILL LANDFILL	BRIDGEPORT , WV	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Waste Tires	
MICHIGAN DISPOSAL WASTE TREATMENT PLANT	BELLEVILLE , MI	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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2 MORICHES MIDDLE ISLAND ROAD
SHIRLEY, NY 11967

CONTACT NAME: GARY CRETTY
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☐ MODIFICATION

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US EPA ID NUMBER: NY0000148163

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
MINERVA ENTERPRISES INC	WAYNESBURG , OH	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
NORTHLAND ENVIRONMENTAL, LLC	PROVIDENCE , RI	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
Ontario County Sanitary Landfill	Stanley , NY	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
PHASE III ENVIRONMENTAL	PALMERTON , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
REPUBLIC ENVIRONMENTAL SYSTEMS	HATFIELD , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
SHADE LANDFILL, INC.	CAIRNSBROOK , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
SOUTHERN ALLEGHENIES LANDFILL	DAVIDSVILLE , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
TULLYTOWN RESOURCE RECOVERY FACILITY (PA DEP 101494)	TULLYTOWN , PA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil	
VEOLIA ES TECHNICAL SOLUTIONS (FORMERLY ONYX)	FLANDERS , NJ	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial	

*** AUTHORIZED WASTE TYPES BY DESTINATION FACILITY LISTING (continued on next page) ***

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
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PERMIT TYPE:

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CONTACT NAME:	GARY CRETTY	EFFECTIVE DATE:	05/01/2023
COUNTY:	SUFFOLK	EXPIRATION DATE:	**04/30/2024**
TELEPHONE NO:	(631)924-5050	US EPA ID NUMBER:	NY0000148163

AUTHORIZED WASTE TYPES BY DESTINATION FACILITY: (Continued)
The Permittee is Authorized to Transport the Following Waste Type(s) to the Destination Facility listed :

Destination Facility	Location	Waste Type(s)	Note
VEOLIA ES TECHNICAL SOLUTIONS (FORMERLY ONYX)	FLANDERS , NJ	Waste Oil	
VEOLIA ES TECHNICAL SOLUTIONS LLC	STOUGHTON , MA	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	
VEOLIA ES TECHNICAL SOLUTIONS, LLC	PORT ARTHUR , TX	Non-Hazardous Industrial/Commercial Asbestos Petroleum Contaminated Soil Hazardous Industrial/Commercial Waste Oil	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MATERIALS MANAGEMENT

PART 364
WASTE TRANSPORTER PERMIT NO. 1A-371

Pursuant to Article 27 ,Titles 3 and 15 of the Environmental Conservation Law and 6 NYCRR 364

PERMIT ISSUED TO:

ASBESTOS TRANSPORTATION COMPANY, INC.
2 MORICHES MIDDLE ISLAND ROAD
SHIRLEY, NY 11967

PERMIT TYPE:

☐ NEW
■ RENEWAL
☐ MODIFICATION

CONTACT NAME:	GARY CRETTY	EFFECTIVE DATE:	05/01/2023
COUNTY:	SUFFOLK	EXPIRATION DATE:	**04/30/2024**
TELEPHONE NO:	(631)924-5050	US EPA ID NUMBER:	NY0000148163

AUTHORIZED VEHICLES:
The Permittee is Authorized to Operate the Following Vehicles to Transport Waste:

(Vehicles enclosed in <>'s are authorized to haul Residential Raw Sewage and/or Septage only)

84 (Eighty Four) Permitted Vehicle(s)

ME 2370312
ME 2370313
ME 2433263
ME 2433264
ME 2433268
ME 2433271
ME 2433272
ME 2433273
ME 2443708
ME 2443709
ME 2443710
ME 2443711
ME 2443712
ME 2443713
ME 2443714
ME 2547185
ME 258236F
ME 2585372
ME 2585373
ME 2585374
ME 2585375
ME 2585376
ME 2585377
ME 2585378
ME 2632582
ME 2632583
ME 2632585
ME 2632587
ME 2632588
ME 2632589
ME 2632590
ME 2632591
ME 2632592
ME 2632593
ME 2632594
ME 2632595
ME 2632596
ME 2632597
ME 2632599
ME 2632604
ME 274656B
ME 274657B
ME 278830A
ME 278831A
ME 2924387
ME 2925841
ME 3017642
ME 3112026
ME 3122971
ME 3126803
ME 3315478
NY 15274PF
NY 17500PB
NY 26254PC
NY 27293PF
NY 32976PC
NY 34178PC
NY 36992MA
NY 44209PC
NY 44640PA
NY 47733PC
NY 69714PC
NY 69809PC
NY 70025PC
NY 70027PC
NY 70028PC
NY 70029PC
NY AT55524
NY AW17844
NY AW17845
NY AW17846
NY AW17848
NY AW17849
NY AW17850
NY BA15570
NY BA15571
NY BA15572
NY BA16914
NY BA16915
NY BA16916
NY BA18861
OH TRG5608
OH TRQ7851
OH TTH4085
End of List

2023 Ohio Environmental Protection Agency 2023

Construction and Demolition Debris Facility License

License Expires December 31, 2023

Facility:	Minerva Enterprises LLC CID: 54288 8955 Minerva Rd SE Waynesburg, OH 44688	**Licensee:**	Minerva Enterprises, LLC 8955 Minerva Rd., SE P.O. Box 709 Waynesburg, OH 44688

This license has been issued in accordance with the requirements of state law, is subject to revocation or suspension for cause, and is not transferable without the consent of the approved Board of Health and the Director of the Ohio Environmental Protection Agency.

Licensing Authority: Stark County Combined General Health District

Conditions of Licensure:

The Licensee hereunder, its agents, employees, and all others in active concert with said licensee, including the facility owner and operator, shall be subject to and shall comply with the following conditions of the this license:

1. All applicable requirements of Ohio Revised Code Chapters 3714, 3734, 6111, and 3704 and the rules adopted thereunder.

2. Plans, other authorizing documents and administrative and judicial orders applicable to this facility and as approved by the Ohio Environmental Protection Agency and/or the approved Board of Health.

3. By applying for and accepting this license, the licensee specifically consents in advance and agrees to allow the Director, the Health District, or an authorized representative, to enter upon the licensee's premises at any reasonable time during the construction and/or operation of the facility for the purpose of inspecting, conducting tests, collecting samples, or examining records or reports pertaining to construction, modification, installation, or operation of the facility. The licensee hereby acknowledges and agrees that any and all rights of access granted herein shall not be deemed to be unreasonable or unlawful under Ohio Revised Code Sec. 3714.08.

The licensee, its agents, employees, and all others in active concert with said licensee shall maintain and operate the construction and demolition debris facility to which the license pertains in a sanitary manner so as not to create a nuisance, create a fire hazard, cause or contribute to water pollution, or create a health hazard. This license shall not be construed to constitute a defense to any civil or criminal action brought by the State of Ohio or any duly authorized representative thereof to enforce the provisions of Chapters 3714, 3734, 3767, 6111, or 3704 of the Ohio Revised Code, or the rules adopted thereunder.

Issuance of this license does not relieve the licensee of the duty to comply with all applicable federal, state, and local laws, regulations and ordinances.

☑ **If Checked, Additional Conditions Apply to This License (See Back, or Attachment)**

Kirkland K Nauss

Health Commissioner

DECEMBER 28, 2022

Date Issued

Ohio Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
Minerva Enterprises, LLC

Facility ID:	1576001700
Permit Number:	P0127704
Permit Type:	Renewal
Issued:	03/22/2022
Effective:	03/22/2022
Expiration:	03/22/2032

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
Minerva Enterprises, LLC

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Authorization

Facility ID:	1576001700
Application Number(s):	A0065019
Permit Number:	P0127704
Permit Description:	Renewal permit for existing asbestos and construction & demolition (C&D) waste landfill.
Permit Type:	Renewal
Permit Fee:	$0.00
Issue Date:	03/22/2022
Effective Date:	03/22/2022
Expiration Date:	03/22/2032

Permit Evaluation Report (PER) Annual Date: Oct 1 - Sept 30, Due Nov 15

This document constitutes issuance to:

Minerva Enterprises, LLC
8955 Minerva Road SE
P.O. Box 709
Waynesburg, OH 44688

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Canton City Public Health
420 Market Ave.
Canton, OH 44702-1544
(330)489-3385

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Laurie A. Stevenson

Laurie A. Stevenson
Director

Entered into the Journal of the Director on:

Date: 03/22/2022

Authorization (continued)

Permit Number: P0127704
Permit Description: Renewal permit for existing asbestos and construction & demolition (C&D) waste landfill.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**F001**
Company Equipment ID:	C&D Disposal
Superseded Permit Number:	P0104984
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F002**
Company Equipment ID:	Roadways & Parking Areas
Superseded Permit Number:	P0104984
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**F003**
Company Equipment ID:	Asbestos Disposal
Superseded Permit Number:	P0104984
General Permit Category and Type:	Not Applicable

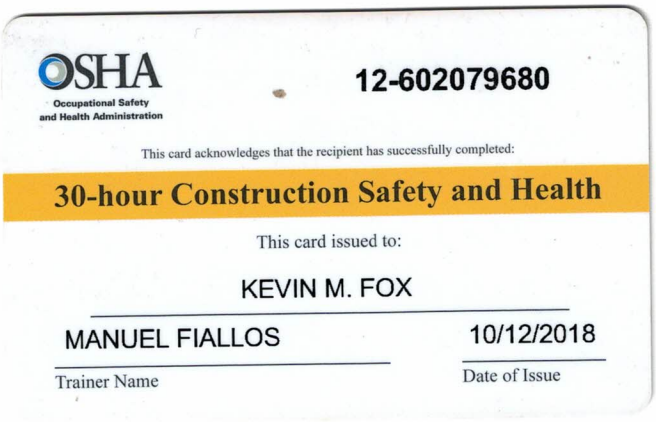
STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

KEVIN M FOX
CLASS(EXPIRES)
G SUPR(06/24)

CERT# 98-00240
DMV# 429032651

MUST BE CARRIED ON ASBESTOS PROJECTS



OSHA
Occupational Safety and Health Administration

12-602079680

This card acknowledges that the recipient has successfully completed:

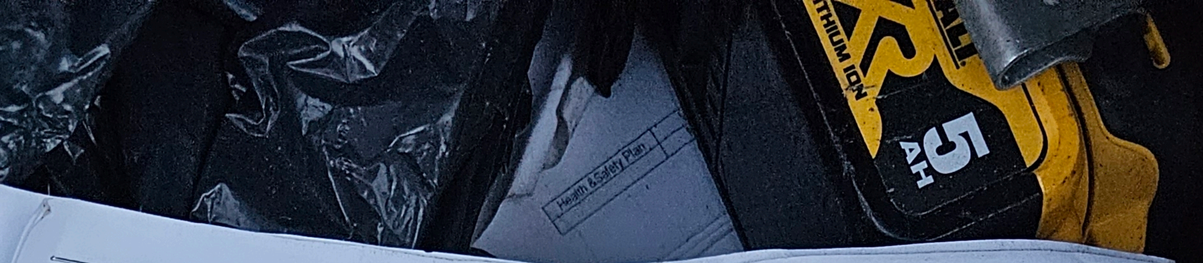
30-hour Construction Safety and Health

This card issued to:

KEVIN M. FOX

MANUEL FIALLOS
Trainer Name

10/12/2018
Date of Issue



Occupational and Community Health Services, Inc. – 3300 Hudson Ave., Union City, NJ 07087 – Phone: (201)325-8002 – Fax: (201)325-9718

MEDICAL CLEARANCE FOR RESPIRATOR USE AND ASBESTOS WORK

First Name XAVIER	Last Name LOPEZ	Gender MALE
DOB 06/28/1995	SSN 767-50-3499	Company
Address 5215 GRAND AVE	APT	City NORTH BERGEN
State NJ	Zip 07047	Telephone 201-424-9505
Emergency contact name MARCELA	Emergency contact last name PROANO	Emergency contact telephone 201-289-3662

THIS WORK CERTIFICATE EXPIRES 12 NOV 2023 501C3 OCHS, INC.

The patient above has been evaluated on **11/12/2022** in compliance with OSHA Asbestos Medical Screening and Surveillance standard 1910.1001 (29CFR)

OSHA MEDICAL HISTORY QUESTIONNAIRES:

OSHA Standard 1910.134 App respiratory protection; 1926.1101 App D asbestos workers: __ unremarkable __ significant finding: __

Patient is: **X** non-smoker __ smoker: __ cig. (s)/day _years Quit smoking __ after ___year(s) of smoking

Date last chest X-ray: _____ Results: __ normal __ abnormal _____ CT scan: _____

Respiratory/ Cardiovascular/Gastrointestinal system review: **X** within normal limits ___ deviations from normal: _____

PHYSICAL EXAMINATION:

Heart sounds: normal S1S2, regular, no murmur. Lung sounds: Normal clear to auscultation bilaterally. Abnormal findings: _____

Tests: Pulmonary function test: **X** within normal limits __ abnormal _____ DEFERRED PER CDC DROPLET PRECAUTIONS

Chest X ray: **X** not indicated __ ordered __ normal __ abnormal __ results pending EKG: __ ordered __ normal __ abnormal

RESULTS:

X ABLE TO WEAR RESPIRATORY PROTECTION AND WORK IN ASBESTOS WITHOUT RESTRICTION

GENERAL RECOMMENDATIONS: 1. NO SMOKING 2. ALWAYS WEAR RESPIRATOR 3. Other: _____

PATIENT EDUCATION: *The patient has been informed of the risks involved in asbestos work and of the increased risk of lung cancer attributable to the combined effects of smoking and asbestos exposure, and of the increased risk with higher intensity and duration of exposure. The results of this medical evaluation for the use of the respirator and asbestos and relevant airborne chemical exposure have been explained to me (the patient)/ los resultados de esta examinacion han sido explicados a mi persona incluyendo el peligro de cancer que aumenta combinado con cigarro. It is the responsibiolity of the patient to perform ordered chest-x-rays/ tests and obtain results. Es la responsabilitdad del paciente de ejecutar la orden medica de rayos-X y obtener mis resultados.*

LEGAL NOTICE: This report must be accompanied by numeric and graphical printout of the spirometry results. Original report and all copies must carry the OCHS watermark seal. Alteration of this document is fraudulent can constitutes a federal crime.

THIS MEDICAL REPORT EXPIRES: 11/12/2023

Mercedes Camacho

Mercedes Camacho, DNP, APN, FNP-BC	11/12/2022	_____	11/12/2022
Signature of Licensed Health Care Provider	Date	Patient signature	Date

Occupational and Community Health Services, Inc. – 3300 Hudson Ave., Union City, NJ 07087 – Phone: (201)325-8002 – Fax: (201)325-9718

QUALITATIVE RESPIRATOR FIT TEST REPORT

as per

OSHA STANDARD 29 CFR 1910.134 APP. C FOR RESPIRATORY PROTECTION

RESPIRATORY QUESTIONNAIRE	FIT TEST DATE	EXPIRATION DATE
No contraindication	11/12/2022	11/12/2023
FIRST NAME	**LAST NAME**	**SOCIAL SECURITY NUMBER**
XAVIER	LOPEZ	767-50-3499

RESPIRATOR DATA

TYPE: APR HALF FACE

MANUCAFUTER: NORTH

MODEL: 7700-30

SIZE: MEDIUM

TESTING AGENT: BITTER AMER

POSITIVE PRESSURE TEST: PASS

NEGATIVE PRESSURE TEST: PASS

DEEP BREATHING: PASS

TURN HEAD SIDE TO SIDE: PASS

NOD HEAD UP AND DOWN: PASS

TALK ALOUD: PASS

JOG IN PLACE: PASS

FACIAL HAIR: NONE

Mercedes Camacho

Mercedes Camacho, DNP, APN, FNP-BC _____ 11/12/2022

Signature of Tester Signature of respirator user Date

ORIGINAL MUST BEAR OCHS WATERMARK SEAL. EMAILED CERTIFICATES MUST BE DONE EXCLUSIVELY VIA OCHS EMAIL.

LEGAL NOTICE/ NOTA LEGAL: This fit-test is pertains only to the person tested. The alteration of this document for fraudulent purposes is a federal crime. Esta prueba pertenece solo a la personal que se lo hizo. La alteracion de este documento para usos fradulentes constituye un delito federal.

WATERMARK SEAL:

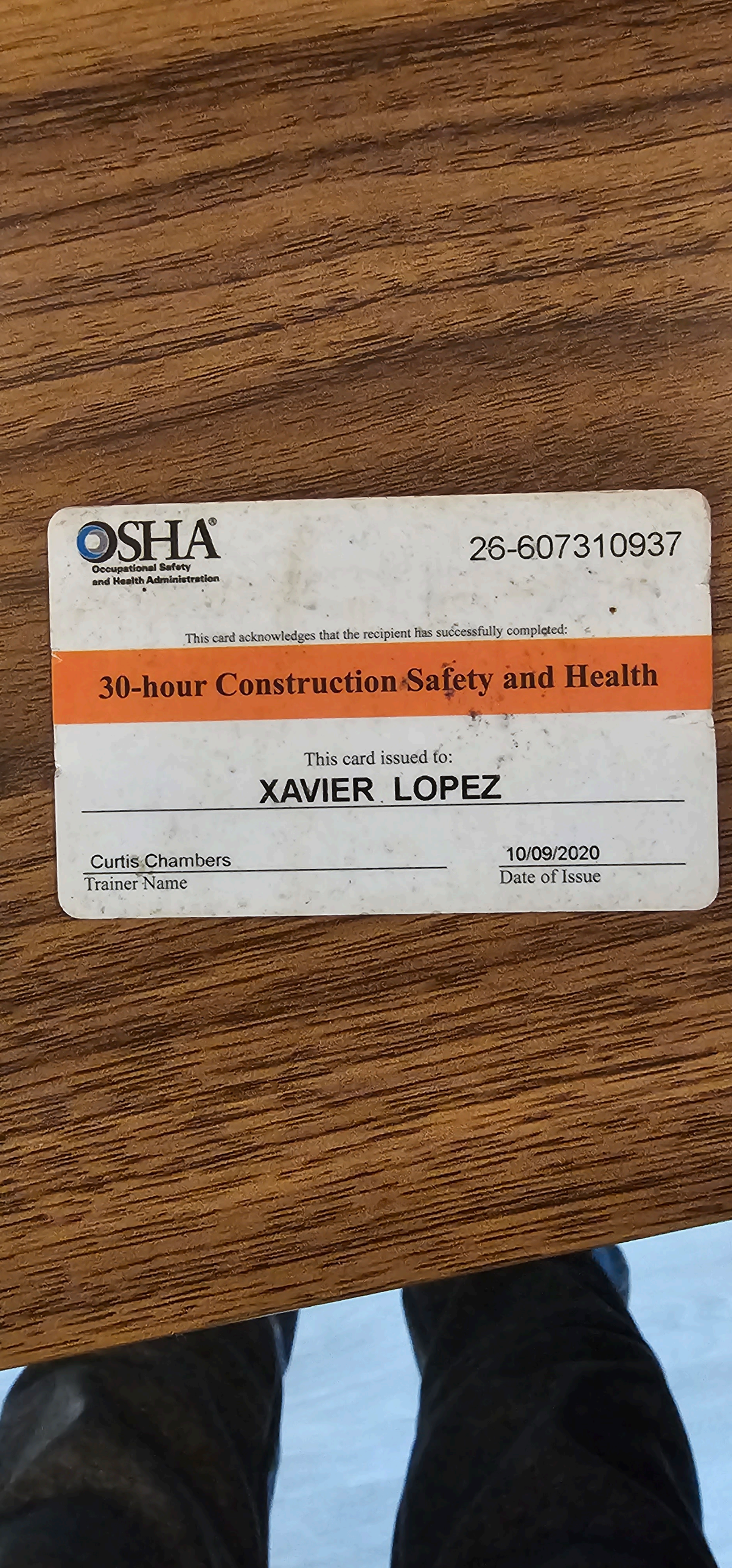
STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

XAVIER LOPEZ
CLASS(EXPIRES)
G SUPR (06/24)

CERT# 23-6T9EH-SHAB
DMV# 239003966

MUST BE CARRIED ON ASBESTOS PROJECTS


OSHA
Occupational Safety and Health Administration
26-607310937
This card acknowledges that the recipient has successfully completed:
30-hour Construction Safety and Health
This card issued to:
XAVIER LOPEZ
Curtis Chambers
Trainer Name
10/09/2020
Date of Issue

RETURN THIS EXECUTED FORM WITH COMPLETED BID SHEET

ESTIMATE OF ACM QUANTITIES

PROJECT NAME: **Barr Middle School**

****

EACH ABATEMENT CONTRACTOR SHALL READ AND ACKNOWLEDGE THE FOLLOWING NOTICE. A SIGNED AND DATED COPY OF THIS ACKNOWLEDGMENT SHALL BE SUBMITTED WITH THE ABATEMENT CONTRACTOR'S BID FOR THIS PROJECT. FAILURE TO DO SO MAY, AT THE SOLE DISCRETION OF THE OWNER, RESULT IN THE BID BEING CONSIDERED NON-RESPONSIVE AND RESULT IN DISQUALIFICATION OF THE ABATEMENT CONTRACTOR'S BID ON THIS PROJECT.

****

*** **NOTICE** ***

The linear and square footages listed within this specification are approximates. Abatement Contractor is required to visit the work locations prior to bid submittal in order to take actual field measurements within each listed location. The Abatement Contractor shall base their bid on actual quantities determined, by them, at the site walkthrough. Estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project.

****

Acknowledgment: I have read and understand the above **NOTICE** regarding removal quantity estimates and understand that estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project. The Abatement Contractor's signatory represents to the Owner that he/she has the authority of the entity he/she represents to sign this agreement on its behalf.

Company Name: NSC Abatement Services, Inc. (Type or Print)

BY: Kevin Fox (Signature) Project Manager (Title) 1/12/24 (Date)

Print Name: Kevin Fox

RETURN THIS EXECUTED FORM WITH COMPLETED BID SHEET

RETURN THIS EXECUTED FORM WITH COMPLETED BID SHEET

Asbestos Employee Medical Examination Statement
Certificate of Worker Release
Asbestos Employee Training Statement
CERTIFICATE OF WORKERS'S ACKNOWLEDGEMENT

PROJECT NAME: **Barr Middle School**

CONTRACTOR'S NAME:_____

WORKING WITH ASBESTOS INVOLVES POTENTIAL EXPOSURE TO AIRBORNE ASBESTOS FIBERS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER AND RESPIRATORY DISEASES. SMOKING CIGARETTES AND INHALATION OF ASBESTOS FIBERS INCREASES THE RISK THAT YOU WILL DEVELOP LUNG CANCER ABOVE THAT OF THE NON-SMOKING PUBLIC.

The Contract for this project requires the Abatement Contracting Company to: 1) supply proper respiratory protection devices, and training on their use, to their employees; 2) provide training on safe work practices, and on use of the equipment used on the project, to their employees; and, 3) provide annual medical examinations to their employees meeting the requirements of 29 CFR 1926.1101. The Abatement Contracting Company's signature on this certificate, documents that these contractual obligations are fulfilled, and that you understand the information presented to you.

**************DO NOT SIGN THIS FORM UNLESS YOU FULLY UNDERSTAND THIS INFORMATION**************

RESPIRATORY PROTECTION: I have been trained in the proper use and limitations of the type of respiratory protection devices to be used on this project. I have reviewed the written respiratory protection program manual and a copy is available for my use. Respiratory protection equipment has been proved, by the Contractor, at no cost to me.

TRAINING COURSE: I have been trained in the risks and dangers associated with handling asbestos, breathing asbestos dust, proper work procedures, personal protection and engineering controls. I have satisfactorily completed and Asbestos Safety Training Program for New York State and have been issued a New York State Department of Health Certificate of Asbestos Safety Training.

MEDICAL EXAMINATION: I have satisfactorily completed a medical examination within the last 12 months that meets the OSHA requirement for an asbestos worker and included at least 1) medical history 2) pulmonary function 3) medical examination 4) approval to wear respiratory protection devises and may have included an evaluation of a chest x-ray.

Signature: Kevin Fox Date 1/12/24

Printed Name: Kevin Fox SS#: 4890

Witness: WILLIAM DAMON Date: 1/12/2024

RETURN THIS EXECUTED FORM WITH COMPLETED BID SHEET

ADVANCED CONTAINMENT SYSTEMS INC.

[redacted]

FORCED AIR 2000EC PORTABLE HEPA FILTRATION UNIT

PART ORDER NUMBER: FA2000EC

OPERATING & MAINTENANCE MANUAL

DOCUMENT NUMBER: OPMM-001E-R0

RELEASES:

1. Original Release: January 3, 2005

NOTE:

1. The purpose of this document is to provide basic operation and maintenance information for the FORCED AIR 2000EC PORTABLE HEPA FILTRATION UNIT.

2. This manual is limited to items stated within. Any changes, additions or modifications will require a document amendment approved by ADVANCED CONTAINMENT SYSTEMS, Inc.

REFERENCE DOCUMENTS:

1. Drawing Num. FA2000EC-ES-R1: Electrical Schematic
2. Drawing Num. FA2000EC-LD-R1: Ladder Diagram

INDEX:

1. GENERAL INFORMATION

2. DIMENSIONS

3. OPERATION

4. FILTRATION

5. FILTER REPLACEMENT

6. ELECTRICAL SCHEMATIC

7. LADDER DIAGRAM

8. REPLACEMENT PARTS LIST

NOTE:
ALL UNITS MANUFACTURED BY ADVANCED CONTAINMENT SYSTEMS INC. (ACSI) MEET ALL STANDARDS REQUIREMENTS SET BY THE AMERICAN NATIONAL STANDARS INSTITUTE (ANSI) Z2.9, AND ARE OSHA APPROVED. ELECTRICAL COMPONENTS ARE "UL" LISTED AND "CSA" CERTIFIED.

1. GENERAL INFORMATION:

1.1 The FORCED AIR 2000EC PORTABLE HEPA FILTRATION UNIT is designed for indoor use and to provide the most efficient air filtration with three stages of filtration. One stage with HEPA (High Efficiency Particulate Air) filtration, that can remove 99.97% of particles 0.3 micron or larger from the air stream.

2. DIMENSIONS:

2.1	Length:	37.75”
2.2	Width:	26.5”
2.3	Height:	31.25”
2.4	Weight:	160 lb
2.5	Housing:	0.063 Aluminum
2.6	Air Flow (High):	1975 cfm
2.7	Air Flow (Low):	1000 cfm
2.8	Motor:	1.75 HP, 2 Speed
2.9	Power Supply:	115 VAC, 60 Hz, 20 amp

3. OPERATION:

CAUTION

DO NOT OPERATE THE FA2000EC WITHOUT THE HEPA FITLER INSTALLED! OPERATING WITHOUT THE HEPA FILTER INSTALLED OR USING NON-APPROVED POWER CORDS MAY CAUSE DAMAGE TO THE ELECTRICAL SYSTEM OR MECHANICAL COMPONENTS. FAILURE TO COMPLY WILL VOID ALL WARRANTIES.

3.1 Electrical Requirements:

3.1.1 The FA2000EC requires a minimum of 115 VAC, 60 Hz, 20 amp, power supply for normal operation.

3.1.2 The unit requires a heavy duty industrial grade 12-3 cord, in good condition, and should not exceed 50 ft. in continuous length for proper operation. If more than 50 ft is needed, please consult with your distributor.

3.1.3 The unit needs to be grounded properly, including the ground pin on the plug. Keep electrical cords away from water and do not use a damaged cord.

3.2 Unit Set-up:

3.2.1 The unit should be located away from doorways or other make-up air sources.

3.2.2 Place the end of the exhaust port through an opening in the plastic barrier or wall covering, using duct tape to seal off any opening. Do not exhaust to uncontaminated or occupied areas.

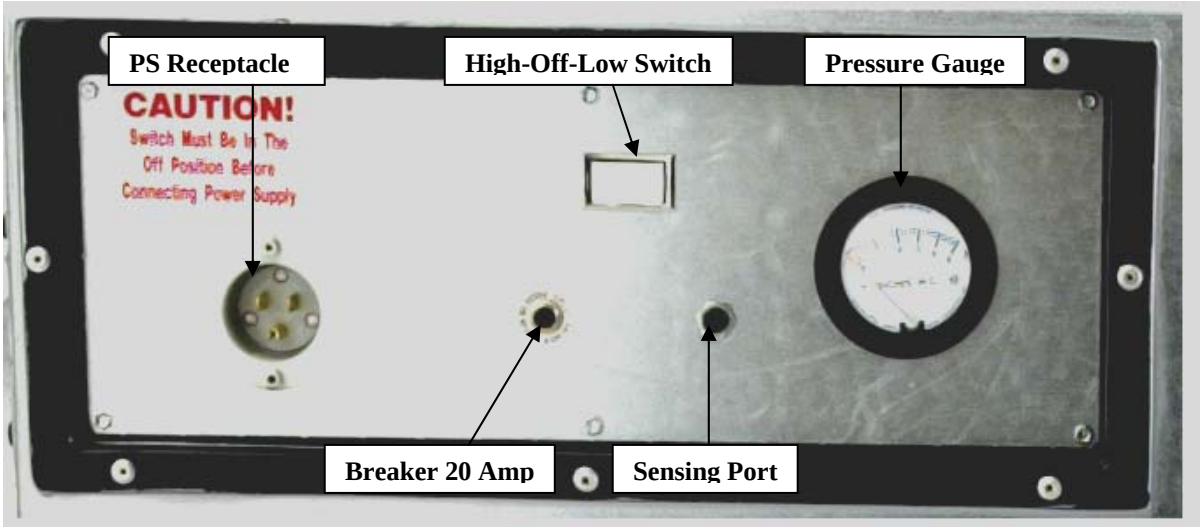


Fig. 1 Control Panel

3.3 Control Panel:

3.3.1 High-Off-Low Switch to start and select the speed of the unit

3.3.2 Push Button Breaker 20 Amp

3.3.3 Power Supply Receptacle

3.3.4 Pressure Gauge

3.3.5 Sensing Port

3.4 Turning unit **On**:

3.4.1 **The switch must be in off position, before connecting the power supply.**

3.4.2 The main switch is located on the control panel (see fig. 1) and is a three position switch (High-Off-Low). Push the switch to the right to operate in low speed or to the left to operate in high speed, the middle position is off.

3.5 Turning unit **Off**:

3.5.1 To turn the unit off, set the switch to the middle position.

3.5.2 At the end of the project, the filters should not be removed, instead the intake opening should be sealed with polyethylene film and duct tape.

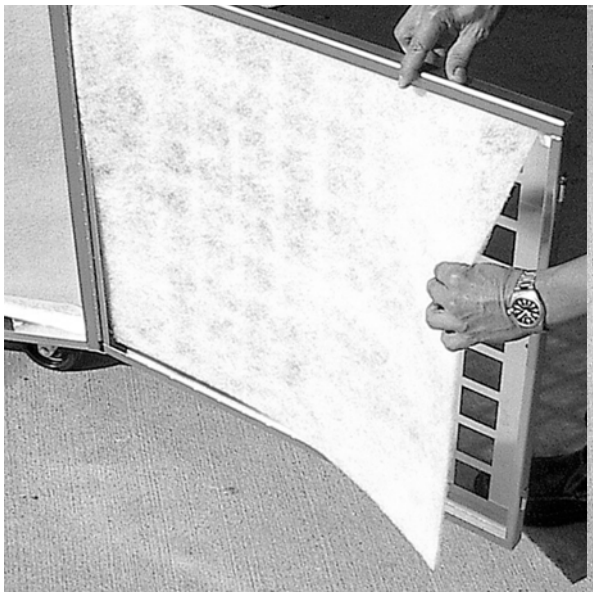


Fig. 2 Pre-filter Pad

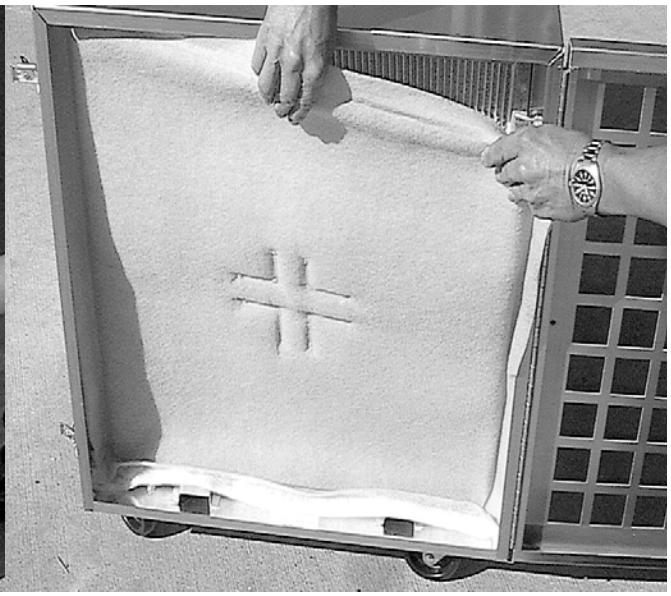


Fig. 3 Ring Panel Filter

4. FILTRATION:

4.1 First Stage Filter (Pre-filter Pad):

4.1.1 24” x 24” x 1”

4.1.2 Double Ply

4.1.3 Removes large particles up to 10 microns and larger from the air flowing through the unit, thereby preventing premature loading of the second stage and HEPA filters. The pre-filter pad (see fig 2) is recommended to be changed as it becomes loaded and the airflow capacity of the unit decreases, or the pressure gauge at the control panel exceeds 2.6 inches at high speed or 1.9 inches at low speed, of W.C. (see fig 1).

4.2 Second Stage Filter (Ring Panel Filter):

4.2.1 24” x 24” x 1”

4.2.2 Triple Ply Ring Panel

4.2.3 Removes particles up to 1 micron and larger from the air flowing through the unit, thereby protecting the more expensive, HEPA filter. The ring panel filter (see fig 3) is recommended to be changed as it becomes loaded and the airflow capacity of the unit decreases, or the pressure gauge at the control panel exceeds 2.6 inches on high speed (1.9 inches on low speed) of W.C. (see fig 1).

4.3 Third Stage Filter (HEPA):

4.3.1 24” x 24” x 11.5”

4.3.2 99.97% Efficient

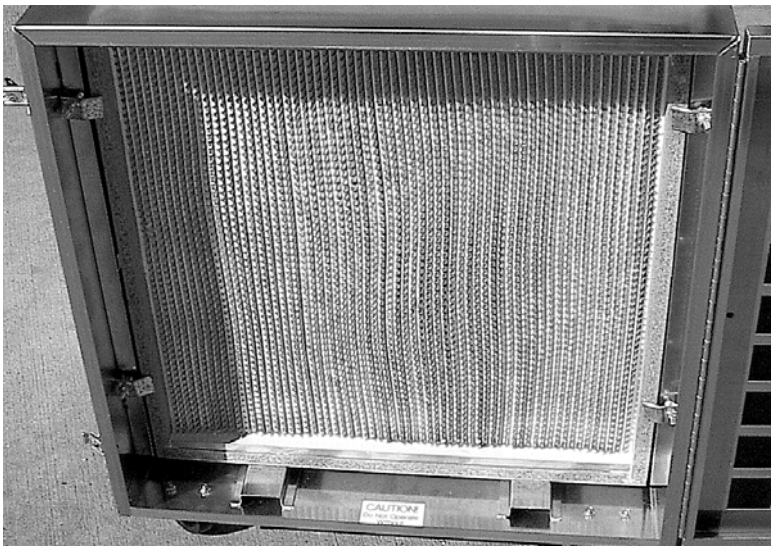


Fig. 4 HEPA Filter

4.3.3 Removes smaller contaminated particles up to 0.3 micron from the air flowing through the unit and has an efficiency rating of 99.97%. The HEPA filter (see fig 4) is recommended to be changed as it becomes loaded and the airflow capacity of the unit decreases, or the pressure gauge at the control panel exceeds 2.6 inches on high speed (1.9 inches on low speed) of W.C. (see fig 1). Or depending on the use, every 700 hours per agency recommendations.

4.4 Proper disposal of filters is described in Section 5.4 of this manual.

5. FILTER REPLACEMENTS:

ATTENTION

PERSONNEL RESPONSIBLE FOR CHANGING FILTERS, SERVICING OR RELOCATING THE UNIT, MUST WEAR APPROVED RESPIRATORS AND PROTECTIVE EQUIPMENT AND TO FOLLOW SAFE WORK PROCEDURE.

5.1 Pre-filter Pad Replacement:

5.1.1 Turn the FA2000EC unit **off** and make sure to disconnect the power supply cord from the unit.

5.1.2 Open the door and remove the contaminated pre-filter pad.

5.1.3 Fold in the sides of the contaminated pad and dispose of as per section 5.4.

5.1.4 Install a new pre-filter pad.

5.1.5 Close the door and fasten draw latch.

5.1.6 Reconnect the power supply cord, then turn the unit **on**, and check the pressure gauge at the control panel.

5.1.7 If the pressure still exceeds 2.6 inches at high speed or 1.9 inches at low speed of water column on the unit's gauge, the ring panel filter also needs to be replaced.

5.2 Ring Panel Filter Replacement:

5.2.1 Turn the FA2000EC unit **off** and make sure to disconnect the power supply cord from the unit.

5.2.2 Open the door and remove the contaminated ring panel filter.

5.2.3 Fold in the sides of the contaminated filter and dispose of as per section 5.4.

5.2.4 Install a new ring panel filter making sure to place it against the HEPA filter. This will position the filter properly.

5.2.5 Close door and fasten the draw latch.

5.2.6 Reconnect the power supply cord, then turn the unit **on**, and check the pressure gauge at the control panel.

5.2.7 If the pressure still exceeds the pressure stated above, the HEPA filter also needs to be replaced.

5.3 HEPA Filter Replacement:

ATTENTION

-THE NEW HEPA FILTER NEEDS TO BE THE SAME SIZE AND TYPE, AS THE ONE BEING REPLACED.
- WHEN THE HEPA FILTER IS REPLACED, THE PRE-FILTER PAD AND RING PANEL FILTER SHOULD ALSO BE REPLACED. THIS WILL HELP TO EXTEND THE LIFE OF THE HEPA FILTER

5.3.1 Turn the FA2000EC **off** and make sure to disconnect the power supply cord from the unit.

5.3.2 Open the door and remove the ring panel filters, as described in section 5.2.

5.3.3 Remove the HEPA filter by loosening the four nuts and rotating the tabs to the open position.

5.3.4 Pull the HEPA filter out of the cabinet and dispose of as per section 5.4.

5.3.5 Inspect the gasket on the new HEPA filter housing before installation, to make sure there are no gaps, cracks, or defects. Any defects in the gasket will allow leakage of contaminated air through the unit.

5.3.6 Place the new HEPA filter in the unit with the gasket end facing the fan. Check to see that the filter lies squarely on the base bracket.

5.3.7 Push the HEPA filter against the HEPA flange bulkhead and rotate the looking tabs to the closed position.

5.3.8 Tighten the HEPA filter hold-down nuts securely to prevent air leaks.

5.3.9 Install ring panel filter as described in section 5.2.

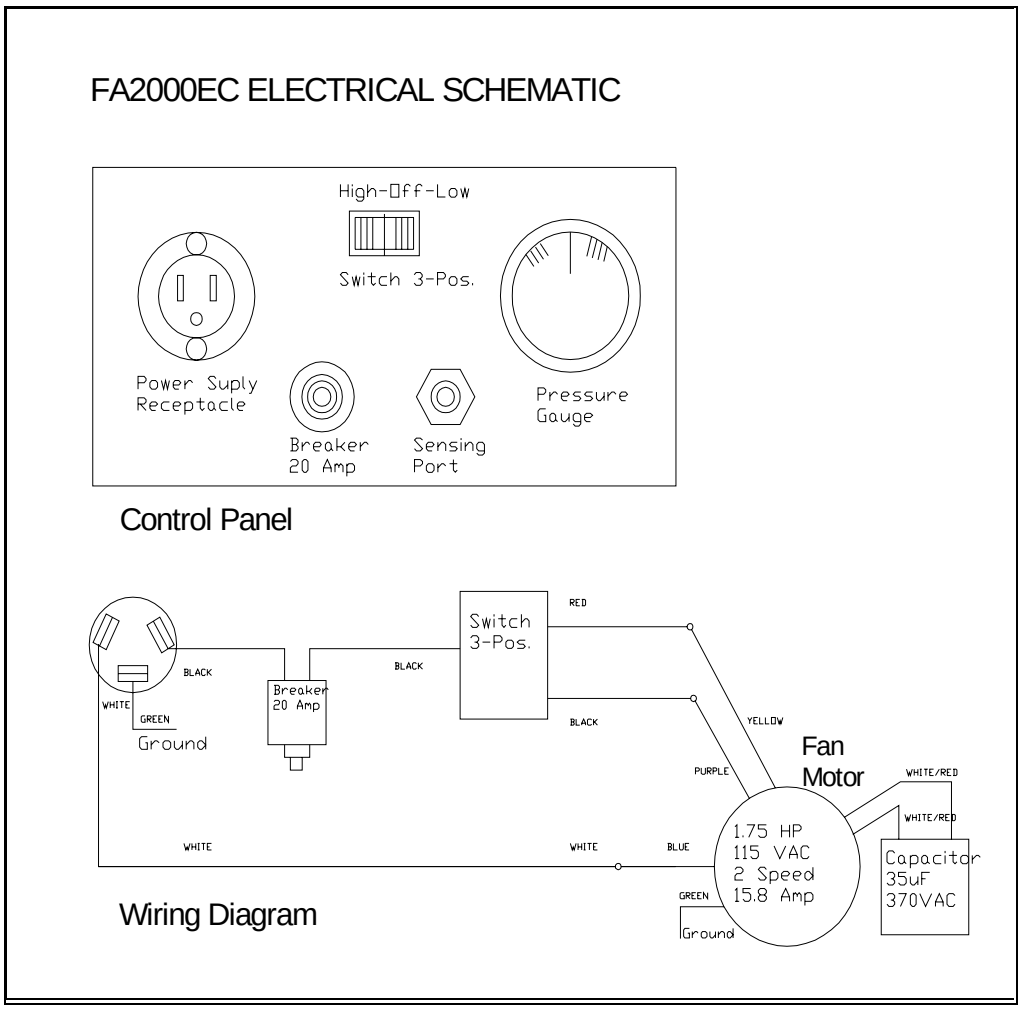
5.3.10 Close door and fasten the draw latch.

5.3.11 Reconnect the power supply cord, then turn the unit **on**, and check the pressure gauge at the control panel. If pressure still exceeds the pressure stated above, consult your distributor.

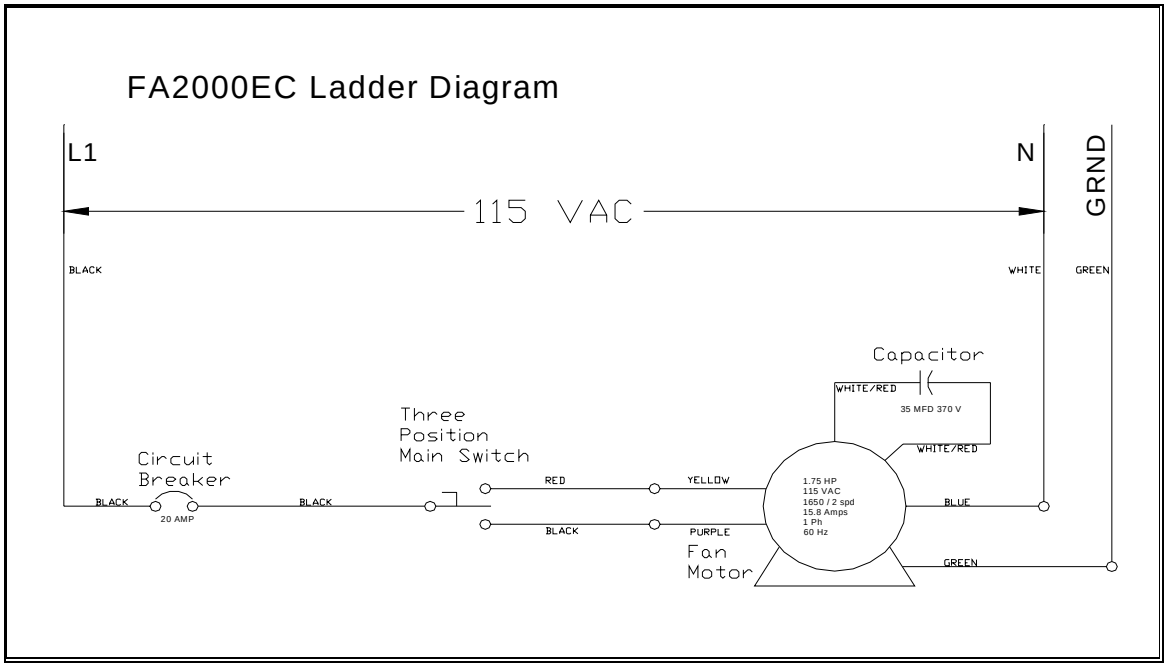
5.4 Used filter disposal:

5.4.1 Used filters are considered contaminated waste and are to be disposed in compliance with all applicable regulations. Personnel replacing filters must wear personal protective equipment and follow safe work practices as per applicable regulations.

6. ELECTRICAL SCHEMATIC:



7. LADDER DIAGRAM:



8. REPLACEMENT PARTS LIST:

Item:	Part Number:	Descriptions:
1	76012801	Blower Motor 1.75 HP
2	76252002	Blower for FA2000
3	38900424	FA2000 Motor & Blower Assembly
4	72650102	Capacitor 35uF, 370VAC, 50/60Hz
5	Call Dist.	HEPA Filter 24” x 24” x 11.5”
6	Call Dist.	Ring Panel Filter 24” x 24” x 1”
7	Call Dist.	Pre-filter Pad 24” x 24” x 1”
8	32000006	FA2000 HEPA Clips
9	32000012	FA2000 Control Panel
10	66020101	Gauge - Pressure Minihelic
11	72150202	Breaker - 20 Amp Push Button
12	72270301	Switch – SPDT 3 Prong
13	72250301	PS Receptacle – Recessed Male 15 Amp
14	74100101	Link lock (Draw Latch) – No Spring
15	74100201	Link lock - Keeper Plate
16	74500104	Caster 4” Swivel
17	74500204	Caster 4” with brake
18	74090101	Grab Handle with spring
19	71200204	Terminal, Push On 16-14 Female clear
20	83500101	FA2000 ABS Control Box

Honeywell

AIR PURIFYING RESPIRATOR (APR)

7700 Series Half Mask

The benchmark in half masks. Made from 100% medical grade silicone, the wide sealing area provides exceptional fit and comfort. Cradle suspension features woven straps that provide for maximum mobility without sacrificing support. Easily converts to PAPR or supplied air.**Features & Benefits:**

- Converts to PAPR or supplied air respirator. Latex free.
- Lower headstraps stretch and move with the worker for more comfort without pulling on the facepiece.
- The benchmark in half masks designed to provide maximum comfort, fit and performance.
- Upper headstraps have minimum give to provide secure support.
- Various thickness in sealing area for improved comfort and support - more support around the chin area and more flexibility on the nose bridge.
- Wide, contoured sealing area for great fit.

- **Facepiece Size** : Small | Medium | Large
- **Facepiece Material** : Silicone
- **Valve Type** : Exhalation Valve
- **Strap Style** : Adjustable Strap
- **Cartridge Type** : N-Series

Enviromaster 7
COMPACT HEPA PRO SERIES

Safety, Operation Manual w/Parts List

P4710-HVAF-R Hazardous Waste Dry Vacuum Cleaner

This unit is intended for commercial use.

Read & Follow All Instructions, Warnings & Cautions Before Using This Vacuum

This vacuum will afford you many years of trouble-free operating satisfaction, provided it is given proper care. All parts have passed rigid quality control standards prior to their being assembled to produce the finished product. Prior to packaging, your vacuum was again inspected for assurance of flawless assembly.

This vacuum is protectively packed to prevent damage in shipment. We recommend that upon delivery, unpack the unit and inspect it for any possible damage. Only a visual examination will reveal damage that may have occurred.

If damage is discovered, immediately notify the transportation company that delivered your vacuum. As a shipper, we are unable to report any claim for damage. You must originate any claim within 5 days.

This manual is for you protection and information. **PLEASE READ CAREFULLY** since failure to follow precautions could result in discomfort or injury. Read this manual completely before operating this vacuum. It is important to follow the instructions in the manual to prevent the possibility of injury or damage to the user and/or machine.

Treat your vacuum cleaner as you would any other high grade precision made product. Dropping, unreasonable bumping across thresholds and other misuses may result in a damaged unit that will not be covered by warranty.

Please Read Carefully Before Operation

Save These Instructions

PN 259861 - P4710 HVAF-R Manual - Printed in USA 3/7/11

P4710-HVAF-R
Important Electrical Safety Instructions

Warning:

To Reduce the Risk of Fire, Electric Shock or Injury:
Electric shock could occur if used on wet surfaces.
DO NOT expose to rain. Store indoors.

When using this vacuum basic precautions should always be followed, including the following:

1) DO NOT leave the vacuum when plugged in. Unplug from the outlet when not in use and before servicing.

2) To avoid electric shock, **DO NOT** expose to rain. Store indoors. **DO NOT** use on wet surfaces.

3) This is **NOT** a toy. Close attention is necessary when used around or near children.

4) Use only as described in this safety manual. Use only manufacturer's recommended attachments and accessories.

5) DO NOT use this vacuum with damaged cord or plug. If the vacuum is not working as it should, because it has been dropped, damaged, left outdoors or dropped into water, contact an authorized service center or factory.

6) DO NOT unplug the vacuum by pulling on the cord. To unplug, grasp the plug, not the cord.

7) DO NOT handle the vacuum plug with wet hands.

8) DO NOT pull or carry by the cord, use cord as a handle, close a door on cord or pull cord around sharp edges and corners. **DO NOT** run vacuum over cord. Keep cord away from heated surfaces.

9) Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.

10) Use extra care when cleaning on stairs.

11) DO NOT put any objects into openings. **DO NOT** use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.

12) DO NOT pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.

13) DO NOT use without 2-ply disposable paper filter bag, 2-ply intermediate filter and HEPA filter in place.

14) Turn **OFF** all controls before unplugging

15) DO NOT use the vacuum to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.

16) DO NOT use where anesthetics or oxygen is used.

17) DO NOT use an extension cord unless absolutely necessary. If an extension cord is used, then wire size must be #14 or larger and should not exceed 50 feet in length. The extension cord must be a three-wire type to insure **GROUNDING** protection.

18) Replace damaged or worn parts immediately with genuine original equipment parts to maintain safety and to protect your limited warranty.

This vacuum must be connected to a properly grounded outlet only. (See grounded instructions). When not in use the power cord should be wrapped around the motor head for storage.

Grounding Instructions

Danger:

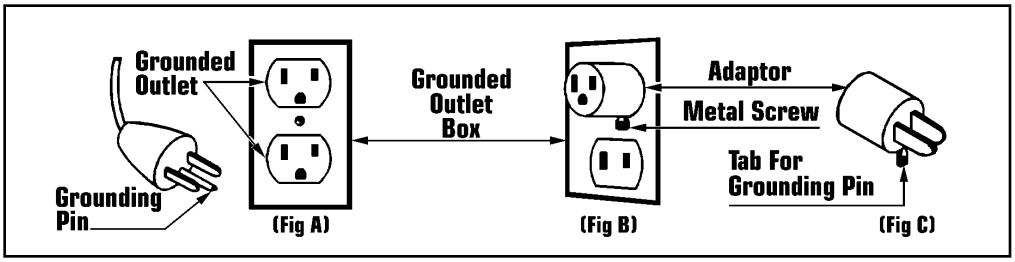
Improper use of the grounding plug can result in a risk of electric shock.

Electrical equipment must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. This vacuum is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

If repair or replacement of the cord or plug is necessary, **DO NOT** connect grounded wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

Save These Instructions

Grounding Methods



This electric equipment is for use on a nominal 120 volt circuit, and has a grounded plug that looks like the plug illustrated in (Fig A). A temporary adaptor that looks like the adaptor illustrated in (Fig B & C) may be used to connect this plug to a 2-pole receptacle as shown in (Fig B) if a properly grounded outlet is not available.

The temporary adaptor should be used only until a properly grounded outlet (Fig A) can be installed by a qualified electrician. The green color rigid ear, lug or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw. (Fig C).

Warning:

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. **DO NOT** modify the plug provided with the equipment. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

Note: In Canada, the use of a temporary adaptor is not permitted by the Canadian Electrical Code.

Intended Use Of The Vacuum

This vacuum has been specifically designed to clean up hazardous dust. Special filters reduce the incidence of airborne dust that would be created by other methods of cleaning.

During the removal of hazardous dust, **DO NOT** sweep, scoop, shovel or in any manner handle other than by vacuuming.

DO NOT at any time attempt to remove, substitute, bypass or by any other means change the filters in the vacuum.

Use only manufacturer's approved vacuum filters and filters bags.

Before attempting to use or before cleaning with this vacuum, be sure that you fully understand the instructions for setting up or cleaning/changing filters.

Any health hazards associated with use of this vacuum in conjunction with the removal of hazardous material has not been investigated by Underwriters Laboratories, Inc.

Unpacking & Caster Installation

Remove the vacuum, hose and wand from the shipping carton. Disengage the clamps on the tank and carefully remove the motor head, filter assembly, tools and casters packed inside the vacuum tank. To install the casters, turn the tank upside down and press casters into the plastic sockets until bottom of stem fits flush against the plastic sockets.

Reinstall the filters and reassemble vacuum following the instructions below.

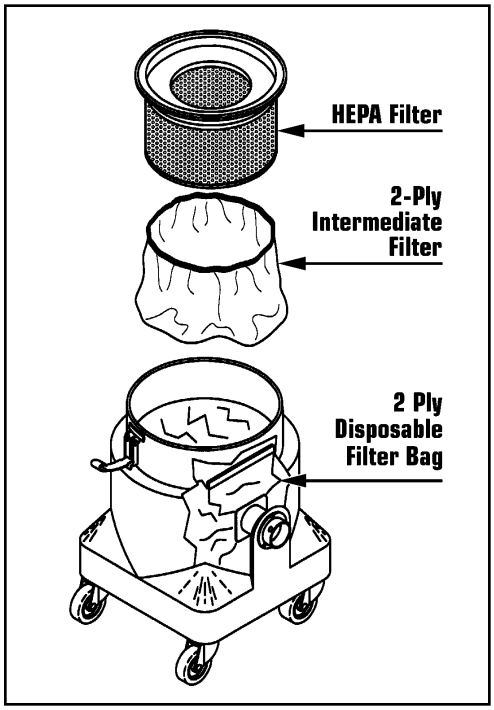
DO NOT use this unit until the owner's manual has been read. Improper use could cause damage to the vacuum or the special filters employed.

Caution:

To insure a snug fit, make sure that the area around the lid and top edge of the vinyl sealing gasket is free of dirt and other foreign matter.

NEVER operate the vacuum cleaner without a HEPA filter and 2-ply disposable paper bag in place and NEVER, NEVER without the intermediate filter in position. Motor damage, lose of operating efficiency and re-circulation of hazardous material into the work area will take place.

Installation Of Filters



This hazardous waste vacuum has special filters installed. The 2-ply disposable paper bag filter contains the bulk of all debris and protects remaining filters from excess dirt.

The 2-ply intermediate filter is a very fine non-woven filter that extends the life of the expensive High-Efficiency Particulate Air (HEPA) filter.

1) Disengage clamps that hold motor head to the tank. Carefully set aside.

2) Remove HEPA filter and 2-ply intermediate filter. Set aside.

3) Install a new disposable 2-ply paper filter bag by taking hold of the free ends of cardboard attached to the paper bag. Pull the cardboard forward over inlet fitting so that the cardboard is as close to the tank wall as possible.

4) Place the 2-ply intermediate filter in position on top of the tank. Fold the edge over the outside of tank, overlapping approximately one inch.

5) Insert the HEPA filter, being careful not to move the 2-ply intermediate filter. The filter's sealing gasket must sit evenly on the tank rim so an air tight seal will be obtained.

6) Replace motor head assembly on top of HEPA filter seated in the top of the tank.

Caution:

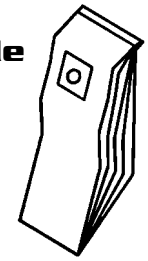
Hazardous materials must be disposed of properly. NEVER throw contaminated debris in your usual trash receptacle. Place debris in a OSHA approved poly bag or container marked with HAZARDOUS MATERIAL warning and dispose in accordance with your local Hazardous Waste Regulations.

When To Change Filters

Caution:

Always unplug the vacuum from the power source before changing filters.

2-Ply Disposable Paper Filter Bags



When the 2-ply disposable paper filter bag is 3/4 full, it **MUST** be replaced. Excessive over filling of this bag makes it difficult to remove from the vacuum tank and can result in breakage and spills.

2-Ply Intermediate Filter

The 2-ply intermediate filter should be replaced with every fifth change of paper bag and whenever there is damage or a visible collection of debris on the outside of the filter.

HEPA Filter

Replace the HEPA filter when loss of vacuum continues to occur after you have checked for an obstructions in the hose or wand. Also, install a new 2-ply disposable paper bag and 2-ply intermediate filter.

Procedures For Removing Contaminated Filters & Cleaning A Contaminated Tank

2-Ply Disposable Paper Filter Bag:

1) Carefully and slowly remove the motor head, **HEPA** filter and 2-ply intermediate filter. Set aside.

2) Using a damp cloth, wipe down all exposed surfaces inside of tank and set cloth down. **DO NOT** discard cloth.

3) Lay the vacuum tank on its side with inlet on top, carefully and slowly push cardboard off air inlet tube.

4) Remove paper backing from sealing flap located over cardboard collar. Press sealing flap firmly over the opening to prevent spill back of recovered materials.

5) Slowly and very carefully lift the 2-ply disposable paper filter bag out of tank, using care not to puncture the bag with inlet.

6) Wipe off any surface that has not been previously wiped with the damp cloth including the entire inside of tank.

7) Place the 2-ply disposable paper filter bag and damp cloth in a OSHA approved poly bag, dispose of it in accordance with the local Hazardous Waste Regulations.

2-Ply Intermediate Filter:

1) Remove motor head. Using a damp cloth wipe down all exposed surfaces on underside and carefully set aside. Put wiping cloth down, **DO NOT** discard.

2) Remove the **HEPA** filter cautiously as not to damage or puncture paper media used in the filter. Set aside.

3) Remove 2-ply intermediate filter and dispose of it along with the wiping cloth in a OSHA approved poly bag.

4) Install a new 2-ply intermediate filter, insert **HEPA** filter, replace motor head and engage clamps.

HEPA Filter:

1) Remove motor head. Using a damp cloth wipe down all exposed surfaces on the underside and carefully set aside. Put wiping cloth down, **DO NOT** discard.

2) Remove **HEPA** filter cautiously and dispose of it along with the 2-ply intermediate filter, 2-ply disposable filter bag and wiping cloth in a OSHA approved poly bag.

3) Install a new 2-ply disposable filter bag, 2-ply intermediate filter and, insert a new **HEPA** filter, replace motor head and engage holddown clamps.

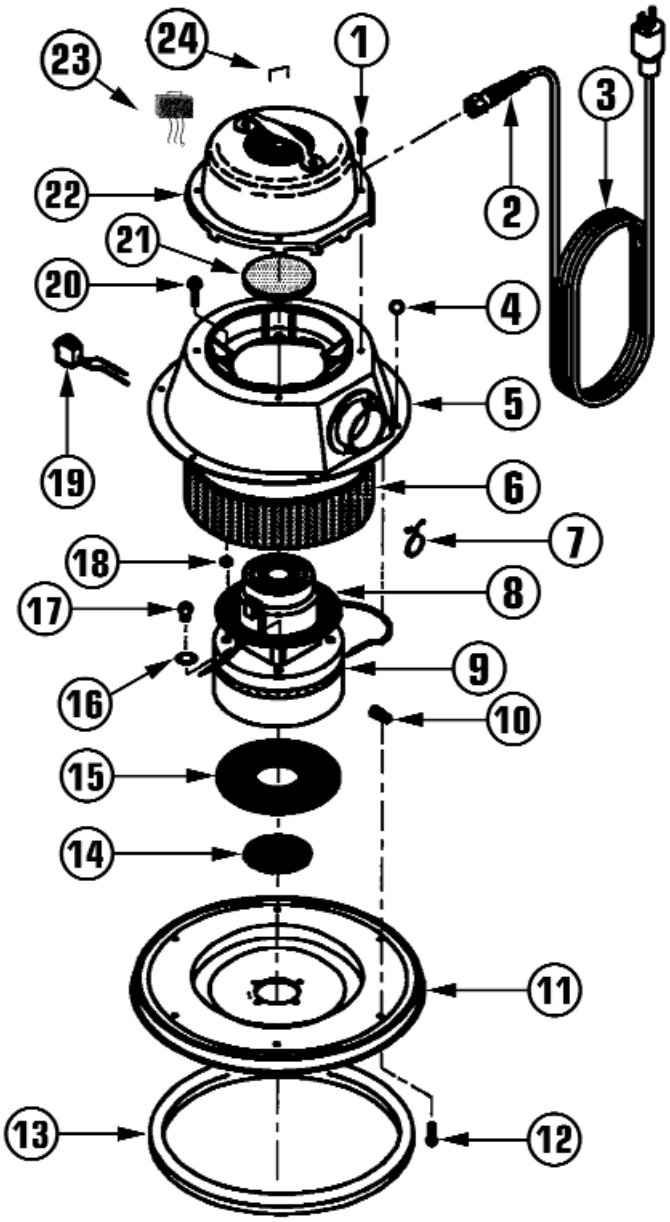
(See page 4 for Filter Installation Instructions)

Caution:

For the benefit of your health, always wear gloves and an OSHA approved face mask for use with asbestos any time you are operating or cleaning this vacuum cleaner.

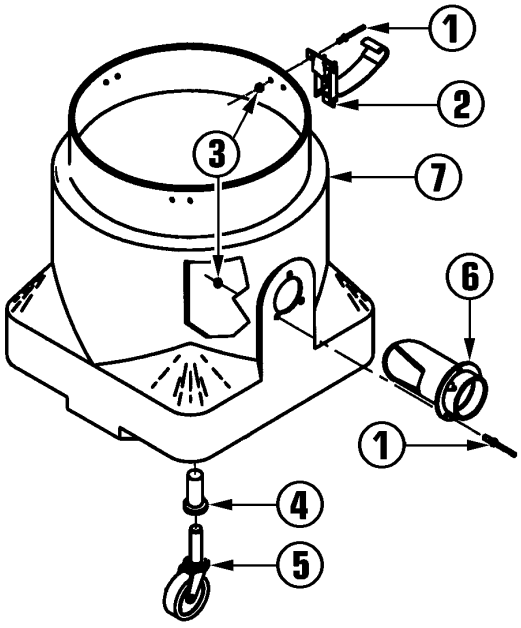
P4710-HVAF-R Electric Motor Head Replacement Parts List

Ref No	Part Description	Qty	Part No
	Complete Motor Head Assy	1	258431
1	#8 X 1" Screw	4	394270
2	Strain Relief	1	443379
3	50 Ft Yellow Line Cord	1	318647
4	#8-32 Nylon Hex Nut	6	385158
5	Lower Dome Assembly	1	394610
6	Silencing Liner	1	302368
7	Purse Lock	1	365491
8	Upper Motor Gasket	1	378607
9	1 HP By-Pass Motor	1	337757
10	Orange Wire Nut	3	398985
11	12" Cover	1	444669
12	#8-32 X .38 Screw	6	415758
13	Circle Gasket	1	416290
14	Motor Screen	1	394432
15	Lower Motor Gasket	1	394300
16	#12 Int Tooth Lockwasher	1	364037
17	#10 Ground Screw	1	393258
18	Spacer	4	361054
19	Rocker Switch	1	393754A
20	#10 Hex Screw	4	368385
21	Silencing Disc	1	396028
22	Upper Dome Assembly	1	394602
23	Receptacle	1	341746
24	Receptacle Clip	1	341932



P47 Tank Assembly Replacement Parts List

Ref No	Part Description	Qty	Part No
1	Pop Rivet	9	374733
2	Holdown Clamp	3	358312
3	Steel Washer	9	303909
4	Plastic Caster Socket	4	371750
5	2 1/2" Swivel Caster	4	307408
6	Inlet Fitting	1	325406
7	Complete Tank Assembly	1	371432



Optional Tool Kits and Assembly Instructions

1¼" DRY TOOL KIT

2 - ¼inch aluminum wands,
4" upholstery tool,
10 ft vinyl hose, swivel hose connector,
9" Crevice tool, 10" carpet Tool,
3" Round Dusting Brush, and
12" Combination Tool.

Hose & Swivel Connector

The hose and swivel connector are pre-assembled at the factory. To attach the swivel connector to intake fitting on vacuum tank:

1) Line up swivel connector slots with retaining rivets on the intake.

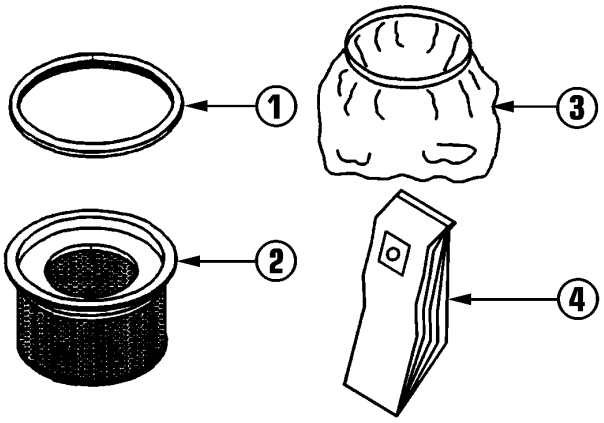
2) Insert swivel connector and twist clockwise until rivets reset against slot end.

1¼" Tool Kit Assembly

Wand Assembly: Both sections are exactly the same. Slide the tapered end of one section into the slotted end of the other wand section.

Attach Hose: Slide curved elbow on hose into wand end with slots on the side.

Install Tool: Insert tool into the tapered end of the wand.



Filter Replacement Parts List

Ref No	*Part Description*	*Part No*
1	HEPA Filter Gasket	302392
2	12" HEPA Filter	306061
3	2-Ply Intermediate Filter (2/Pk)	430692
4	2-Ply Paper Filter Bag (5/Pk)	411973

Trouble Shooting Guide

PROBLEM: Loss of Vacuum.

Possible Cause:	Possible Solution:
1. Full paper 2-ply disposable filter bag.	**1.** Replace 2-ply disposable paper filter bag.
2. Dry filter assembly clogged.	**2.** Clean cloth filter.
3. Clogged hose or wand.	**3.** Remove obstruction.
4. Tank rim damaged.	**4.** Replace tank.
5. Loose or broken fan.	**5.** Contact manufacturer or service center.
6. Motor not working.	**6.** Contact manufacturer or service center.
7. Gasket worn.	**7.** Replace gasket.

PROBLEM: Motor is not running.

Possible Cause:	Possible Solution:
1. Broken switch or motor defective.	**1.** Contact manufacturer or service center
2. Power cord defective.	**2.** Contact manufacturer or service center.
3. Blown fuse or tripped circuit breaker.	**3.** Replace fuse or reset circuit breaker.

PROBLEM: Dust blowing from vac when running.

Possible Cause:	Possible Solution:
1. Full or torn 2-ply disposable paper filter bag.	**1.** Replace 2-ply disposable filter bag.
2. Paper filter bag not installed properly or off inlet tube.	**2.** Reinstall or replace 2-ply disposable paper filter.

Mastercraft

777 South Street P.O. Box 2310
Newburgh, NY 12550-0606
TEL:(800) 835-7812 (845) 565-8850
FAX:(800) 752-6883 (845) 565-9392

mastercraftusa.com
techsupport@mastercraftusa.com

PN 259861 - P4710 HVAF-R Manual - Printed in USA 3/7/11

PULLMAN-HOLT

Model 102ASB12P HEPA Vacuum

Number one choice of abatement professionals

The 102ASB is a proven performer in the abatement industry. For over twenty years, it has earned the reputation as a true "work horse" by abatement, remediation and restoration professionals. A heavy-duty polyethylene tank with dump valve, rugged construction and long-life, commercial grade vacuum motor help make this model the toughest, most durable HEPA Vacuum in the market today.

Powerful Vacuum

A 2 Horsepower, 2 stage by-pass, 11.1 amp motor delivers 105" of waterlift and 110 CFM. Plenty of power for fast pick-up of wet and dry hazardous materials.

True 99.97% Type A Large Capacity HEPA Filter

Individually tested and certified to have a minimum efficiency of 99.97% at .3 microns in accordance with IEST-RP-CC007 test requirements.

Pullman-Holt HEPA Filter System

Air Seal Gasket – Provides tight air seal and prevents leakage. (part #B700306)

HEPA Media – The filter is made from a single piece of high-grade HEPA media to eliminate the possibility of leaks. The pleats in the media are held open by corrugated aluminum separators for maximum airflow.

Spacer Sleeve – The purpose of the spacer sleeve is to space the Dacron bag away from the HEPA filter body so as to utilize the full area of the "Never Clog" Dacron bag. (Part # B700306)

Polyester Prefilter – This impact filter is about one inch thick and is attached to the inlet (bottom) surface of each HEPA filter. Its function is to provide final protection to the HEPA filter from premature failure due to clogging. (Part # B700017)

"Never Clog" Filter Bag – Sheds dirt and debris like a duck sheds water. Shakes clean to maintain maximum airflow. (Part # B000517)

Pullman-Holt Corporation
800-237-7582 • Fax 800-833-8875
www.PullmanHoltCorp.com

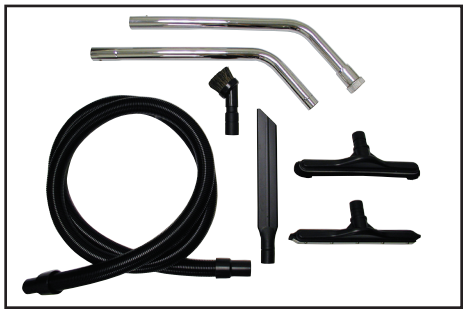
Model 102ASB12P

Specifications:

Product Code:	B160421
Style:	Wet/Dry
Horsepower:	2
Waterlift:	105”
CFM:	110
Recovery (wet):	12 Gal.
Cord length:	25 feet
Shipping weight:	84 lbs.
Motor warranty:	1 year

UL Approved

Meets & exceeds EPA & OSHA standards



Included Attachments & Accessories:

Tool Kit (B160056)

5’ two-piece metal wand B521007)
10’ X 1.5” crushproof hose (B000311)
14” floor brush tool (B527095)
14” floor squeegee tool (B527094)
17” crevice tool (B701615)
3” round dusting tool B000394)

Replacement Filters

Polyester prefilter 3 each (B700017)
Disposable paper filter bags 3 each (B524253)

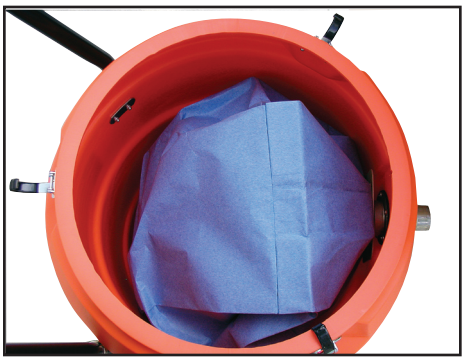
Disposable Poly Bags

3 each (B524263)

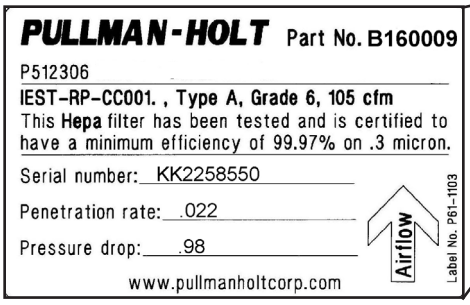
Features:

Complete HEPA Filter Assembly consisting of air seal gasket, polyester prefilter, spacer sleeve and Dacron filter bag (B160009)

Wet pickup adapter with reliable float shut-off (B260200)



High efficiency 2-ply enclosed disposable paper filter bag acts as the primary filter to trap and hold dry material for easy handling and disposal. (Part # B524253)



Each Pullman-Holt HEPA filter is tested and certified to provide a minimum efficiency of 99.97% at .3 microns.

PULLMAN-HOLT
10702 N. 46th Street • Tampa, FL 33617
800-237-7582 • Fax 800-833-8875
www.Pullman-Holt.com

Particulate Filters & Accessories

Air Purifying Respirators with filters provide respiratory protection against aerosols by removing dusts, mists, fumes, fibers, and other particles. Filters do not remove gases or vapors, or correct for oxygen deficiency.

End of service life for filters is normally determined by the increase in breathing resistance sensed by the user. When it becomes difficult to breathe comfortably, the filters should be replaced. R95 filters are limited to a maximum of 8 hours use, when used in atmospheres containing oil.

Particulate Filters

Part#	Description
7580P100	P100 Particulate Filter – (99.97% Minimum Filter Efficiency)
75FFP100	P100 Particulate Filter (Pancake) – (99.97% Minimum Filter Efficiency)
75FFP100NL	P100 Particulate Filter (Pancake) with nuisance level odor relieve for Organic Vapors, Acid Gases and Ozone. – (99.97% Minimum Filter Efficiency)
7506N95	N95 Non-Oil Particulate Filter (95% Minimum Filter Efficiency)
7506N99	N99 Non-Oil Particulate Filter (99% Minimum Filter Efficiency)
7506R95	R95 Particulate Filter (95% Minimum Filter Efficiency)
7535FFP100	P100 Particulate filter assembly (99.97% Minimum Filter Efficiency) Includes 5 pr 75FFP100 Filters and 1 pr N750035 Adapter.
7531N95	N95 Non-Oil Particulate Filter Assembly (95% Minimum Filter Efficiency) Includes 7506N95 Filter, N750027 Seal Check/Filter Cover and N750015 Filter Holder
7531N99	N99 Non-Oil Particulate Filter Assembly (99% Minimum Filter Efficiency) Includes 7506N99 Filter, N750027 Seal Check/Filter Cover and N750015 Filter Holder
7531R95	R95 Particulate Filter Assembly (95% Minimum Filter Efficiency) Includes 7506R95 Filter, N750027 Seal Check/Filter Cover and N750015 Filter Holder

Accessories for Cartridges and Filters

Part#	Description
N750015	Filter Holder for 7506N95, 7506N99 and 7506R95 filters. Requires N750027 Seal Check/Filter Cover.
N750027	Seal Check/Filter Cover for 7506N95, 7506N99 and 7506R95 filters. Attaches to Gas and Vapor cartridges. For filter use only, use N750015 Filter Holder.
N750029	Shower Cap for 7580P100 Filter. Protects filter during abatement using water or during decontamination.
N750035	Adapter for assembly of a 75FFP100 Pancake Filter to a gas and vapor cartridge (Except for Defender Multi-Purpose Cartridge)

Gas & Vapor Cartridges

North offers an extensive line of gas and vapor cartridges and particulate filters to satisfy numerous industrial applications. All North cartridges and filters are approved with all North air-purifying half masks and full facepiece respirators. One line of cartridges and filters will simplify your inventory.

Air-Purifying Respirators with cartridges provide respiratory protection against gases and vapors by using sorbents to purify the inhaled air. Cartridges without filters do not remove dusts, fibers, and other particles.

End of service life for gas and vapor cartridges is determined by either:

* an end-of-service life indicator (ESLI) certified by NIOSH, or
* the employer must implement a change schedule to ensure cartridges are changed before the end of their service life.

esLife: North has developed the esLife software program to help users develop cartridge change schedules for North gas and vapor cartridges. esLife is part of North's on-line **ezGuide**™ designed to aid users in determining the appropriate respiratory and hand protection product for their specific applications. See page 33 for more information.

Gas & Vapor Cartridges and Combination Gas and Vapor Cartridges with P100 Particulate Filters

Part#	Color Code	Description
75SC	Olive	Defender™ Multi-Purpose Cartridge for Organic Vapors, Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Sulfide (Escape), Hydrogen Fluoride, Chlorine Dioxide, Ammonia, Methylamine and Formaldehyde
75SCP100	Olive/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75001	Black	Organic Vapor Cartridge
7581P100	Black/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75002	White	Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Fluoride, Chlorine Dioxide, Formaldehyde Cartridge
7582P100	White/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75003	Yellow	Organic Vapor, Chlorine, Hydrogen Chloride, Sulfur Dioxide, Hydrogen Fluoride, Chlorine Dioxide Cartridge
7583P100	Yellow/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N75004	Green	Ammonia, Methylamine Cartridge
7584P100	Green/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)
N750052	Olive	Mercury Vapor, Chlorine Cartridge with End-of Service-Life Indicator (ESLI for mercury vapor)
75852P100	Olive/Magenta	Above with P100 Particulate Filter (99.97% Minimum Filter Efficiency)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2022
Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. BING LIANG
NICHE ANALYSIS INC
399 KNOLLWOOD ROAD, SUITE 208 SUITE 208
WHITE PLAINS, NY 10603

NY Lab Id No: 11236

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual

Serial No.: 66315

WE ARE YOUR DOL

NEW YORK STATE | Department of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

Niche Analysis, Inc.
399 Knollwood Road, Suite 208, White Plains, NY, 10603

License Number: 28914
License Class: RESTRICTED
Date of Issue: 12/28/2022
Expiration Date: 01/31/2024
Duly Authorized Representative: Bing Liang

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Amy Phillips, Director
For the Commissioner of Labor

SH 432 (12/21)

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WADSWORTH CENTER

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous

Fibers	NIOSH 7400 A RULES

Serial No.: 66316