

ASBESTOS OPERATIONS AND MAINTENANCE SAFETY PROGRAM			
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Purpose

The purpose of the Asbestos Operations and Maintenance (O&M) Program is to establish a comprehensive framework for safely managing asbestos-containing materials (ACMs) in the workplace. This program ensures that all activities related to asbestos are performed in compliance with relevant federal, state, and local regulations, minimizing the risk of exposure to employees and others. The O&M program includes provisions for the identification, monitoring, and management of asbestos materials, as well as detailed procedures for maintenance, repair, and removal. By implementing this program, the organization aims to protect the health and safety of workers, maintain a safe environment, and prevent the accidental release of asbestos fibers into the air.

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1.0 Introduction

Asbestos is a broad term to describe a group of naturally occurring silicate minerals. These minerals have been integrated into thousands of building products due to the functional and versatile properties they retain. The commonly found forms of asbestos are Chrysotile, Amosite, and Tremolite. Asbestos minerals have many properties that make it an ideal ingredient in multiple building products. For example, these properties include high heat resistance, electrical resistance, high tensile strength, and its ability to be woven. However, asbestos exposure has been well documented to cause many adverse health effects.

The most common form of asbestos is Chrysotile. This mineral is primarily mined in Canada and is shipped worldwide to be used in many products. Chrysotile is a long fibrous mineral in its natural state. Tremolite asbestos is a very common mineral found primarily in vermiculite insulation. Vermiculite insulation is found usually in the attic and walls of older homes. The asbestos mineral Amosite is known as "being hard to wet" due to its very short needle like fibers.

Exposure to airborne asbestos fibers can lead to the development of an asbestos related disease. Asbestosis is the first recognized disease associated with asbestos exposure. Asbestosis is known as the "scarring of the air sacs." Asbestos exposure can lead to a rare form of cancer called Mesothelioma. Lung cancer has been connected to asbestos exposure and is complicated by cigarette smoking. Pleural plaques are hard small plate-like structures that are found on the outside of the lungs and are used as a marker for asbestos exposure. Pleural plaques do not have an adverse effect on the individual's health compared to Asbestosis, Lung cancer, and Mesothelioma.

The purpose of the Asbestos Operations and Maintenance Program is to ensure that Case Western Reserve (CWRU) employees are equipped with the knowledge, skill, and experience to identify and control potential exposure to airborne asbestos fibers during daily activities.

2.0 Definitions

Aggressive method means removal or disturbance of building material by sanding, abrading, grinding or other method that breaks, crumbles, or disintegrates intact ACM.

Amended water means water to which surfactant (wetting agent) has been added to increase the ability of the liquid to penetrate ACM.

Asbestos includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, actinolite asbestos, and any of these minerals that has been chemically treated and/or altered. For purposes of this standard, "asbestos" includes PACM, as defined below.

Asbestos-containing material (ACM) means any material containing more than one percent asbestos.

Authorized person means any person authorized by the employer and required by work duties to be present in regulated areas.

Building/facility owner is the legal entity, including a lessee, which exercises control over management and record keeping functions relating to a building and/or facility in which activities

covered by this standard take place.

Certified Industrial Hygienist (CIH) means one certified in the practice of industrial hygiene by the American Board of Industrial Hygiene.

Class I asbestos work means activities involving the removal of TSI and surfacing ACM and PACM.

Class II asbestos work means activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.

Class III asbestos work means repair and maintenance operations, where "ACM", including TSI and surfacing ACM and PACM, is likely to be disturbed.

Class IV asbestos work means maintenance and custodial activities during which employees contact but do not disturb ACM or PACM and activities to clean up dust, waste and debris resulting from Class I, II, and III activities.

Clean room means an uncontaminated room having facilities for the storage of employees' street clothing and uncontaminated materials and equipment.

Closely resemble means that the major workplace conditions which have contributed to the levels of historic asbestos exposure are no more protective than conditions of the current workplace.

Competent person means, in addition to the definition in 29 CFR 1926.32 (f), one who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f): in addition, for Class I and Class II work who is specially trained in a training course which meets the criteria of EPA's Model Accreditation Plan (40 CFR 763) for supervisor, or its equivalent and, for Class III and Class IV work, who is trained in a manner consistent with EPA requirements for training of local education agency maintenance and custodial staff as set forth at 40 CFR 763.92 (a)(2).

Critical barrier means one or more layers of plastic sealed over all openings into a work area or any other similarly placed physical barrier sufficient to prevent airborne asbestos in a work area from migrating to an adjacent area.

Decontamination area means an enclosed area adjacent and connected to the regulated area and consisting of an equipment room, shower area, and clean room, which is used for the decontamination of workers, materials, and equipment that are contaminated with asbestos.

Disturbance means activities that disrupt the matrix of ACM or PACM, crumble or pulverize ACM or PACM, or generate visible debris from ACM or PACM. Disturbance includes cutting away small amounts of ACM and PACM, no greater than the amount which can be contained in

one standard sized glove bag or waste bag to access a building component. In no event shall the amount of ACM or PACM so disturbed exceed that which can be contained in one glove bag or waste bag which shall not exceed 60 inches in length and width.

Employee exposure means that exposure to airborne asbestos that would occur if the employee were not using respiratory protective equipment.

Fiber means a particulate form of asbestos, 5 micrometers or longer, with a length-to-diameter ratio of at least 3 to 1.

Glovebag means not more than a 60 x 60-inch impervious plastic bag-like enclosure affixed around an asbestos-containing material, with glove-like appendages through which material and tools may be handled.

High-efficiency particulate air (HEPA) filter means a filter capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter.

Homogeneous area means an area of surfacing material or thermal system insulation that is uniform in color and texture.

Industrial hygienist means a professional qualified by education, training, and experience to anticipate, recognize, evaluate and develop controls for occupational health hazards.

Intact means that the ACM has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound with its matrix.

Modification for purposes of paragraph (g)(6)(ii), means a changed or altered procedure, material or component of a control system, which replaces a procedure, material or component of a required system. Omitting a procedure or component or reducing or diminishing the stringency or strength of a material or component of the control system is not a "modification" for purposes of paragraph (g)(6) of this section.

Negative Initial Exposure Assessment means a demonstration by the employer, which complies with the criteria in paragraph (f)(2)(iii) of this section, that employee exposure during an operation is expected to be consistently below the PELs.

PACM means "presumed asbestos containing material".

Presumed Asbestos Containing Material means thermal system insulation and surfacing material found in buildings constructed no later than 1980. The designation of a material as "PACM" may be rebutted pursuant to paragraph (k)(5) of this section.

Regulated area means: an area established by the employer to demarcate areas where Class I, II, and III asbestos work is conducted, and any adjoining area where debris and waste from such asbestos work accumulate; and a work area within which airborne concentrations of asbestos, exceed or there is a reasonable possibility they may exceed the permissible exposure limit. Requirements for regulated areas are set out in paragraph (e) of this section.

Removal means all operations where ACM and/or PACM is taken out or stripped from structures or substrates and includes demolition operations.

Renovation means the modifying of any existing structure, or portion thereof.

Repair means overhauling, rebuilding, reconstructing, or reconditioning of structures or substrates, including encapsulation or other repair of ACM or PACM attached to structures or substrates.

Surfacing material means material that is sprayed, troweled-on or otherwise applied to surfaces (such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, and other purposes).

Surfacing ACM means surfacing material which contains more than 1% asbestos.

Thermal system insulation (TSI) means ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain.

Thermal system insulation ACM is thermal system insulation which contains more than 1% asbestos.

3.0 Methods of Compliance

The Occupational Safety and Health Administration (OSHA) has established a classification system for construction work in which the disturbance of asbestos containing materials (ACMs) will occur. The OSHA standard dealing with asbestos in construction is 29 CFR 1926.1101. The level of engineering controls, work practices, training, and personal protective equipment (PPE) depends on the type of materials to be removed. OSHA classifies asbestos work into the four following categories:

Class I asbestos work means activities involving the removal of thermal system insulation (TSI) and surfacing ACM and presumed asbestos containing materials (PACMs)

Class II asbestos work means activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestoscontaining wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.

Class III asbestos work means repair and maintenance operations, where "ACM", including TSI and surfacing ACM and PACM, is likely to be disturbed.

Class IV asbestos work means maintenance and custodial activities during which employees contact but do not disturb ACM or PACM and activities to clean up dust, waste and debris resulting from Class I, II, and III activities.

All Class I and II activities must be performed by a licensed asbestos abatement contractor utilizing licensed workers and supervisors. Asbestos work must follow all applicable local, state, and federal regulations. Under no circumstances shall Class I or II activities be performed by CWRU personnel. CWRU personnel only have the appropriate training to perform Class III operation and maintenance procedures on asbestos containing materials. CWRU personnel have specific training in the disturbance of asbestos containing wall and ceiling materials.

This training allows for small penetrations to be performed in asbestos walls and ceilings. CWRU personnel also have specific training for the disturbance of asbestos containing flooring materials. This training only allows for small scale removal/repairs of asbestos containing flooring materials.

3.1 Training

(Asbestos Abatement Contractors)

Training for Class I operations and for Class II operations that require the use of critical barriers (or equivalent isolation methods) and/or negative pressure enclosures shall be the equivalent in curriculum, training method and length to the EPA Model Accreditation Plan (MAP) asbestos abatement workers training (40 CFR Part 763, subpart E, appendix C)

Other Class II training specifically involves activities dealing with asbestos containing roofing materials, flooring materials, siding materials, ceiling tiles, or transite panels, training shall include at a minimum all the elements included in paragraph (k)(9)(viii) of the OSHA standard 29 CFR 1926.1101 and in addition, the specific work practices and engineering controls set forth in the standard relating to that category. Such training course shall include "hands-on" training and shall take at least 8 hours.

Training for Class III employees shall be consistent with EPA requirements for training of local education agency maintenance and custodial staff as set forth in the EPA's AHERA standard 40 CFR 763.92(a)(2). Such a course shall also include "hands-on" training and shall take at least 16 hours.

Training for employees performing Class IV operations shall be consistent with EPA requirements for training of local education agency maintenance and custodial staff as set forth in the EPAs AHEREA Standard 40 CFR 763.92(a)(1). Such a course shall include available information concerning the locations of thermal system insulation and surfacing ACM/PACM, and any asbestos-containing flooring material, or flooring material where the absence of asbestos has not yet been certified; and instruction in recognition of damage, deterioration, and delamination of asbestos containing building materials. Such course shall take at least 2 hours.

(CWRU Employee)

Select CWRU facilities employees have attended and successfully completed an 8-hour modified OSHA Class III training focused on the disturbance of asbestos containing wall and ceiling materials. This training was conducted in accordance with 29 CFR 1926.1101 (k)(9)(v) under the exception clause. The course reviewed topics listed in 29 CFR 1926.1101 (k)(9)(viii) and included hands on activities.

Select CWRU facilities employees have attended and successfully completed a 12-hour OSHA competent person training for conducting the removal of asbestos containing resilient flooring materials utilizing the Resilient Floor Covering Institute removal procedures. This training course covered all subjects required under 29 CFR 1926.1101(k)(9)(iv) and (o)(4)(i).

3.2 Occupant Notification

CWRU shall notify the following persons of the presence, location and quantity of ACM or PACM, at the work sites in their buildings and facilities. Notification either shall be in writing or shall consist of a personal communication between CWRU and the person to whom notification must be given or their authorized representatives. The following persons are to be notified: tenants of the space, outside contractors, CWRU employees working in the area, and all employers and their employees if the area is part of a multi-employer worksite as stated in 29 CFR 1926.1101 (k)(1). CWRU shall perform asbestos related activities during those times that are the least disruptive to the area's occupants. CWRU will attempt to provide at minimum a 24-hour notice prior to proceeding with Class III asbestos activities.

3.3 Work Practices

CWRU employees shall implement the work practices defined in 29 CFR 1926.1101(g)(1)(i-iii). These work practices include the use of a vacuum equipped with a high efficiency particulate air (HEPA) filter, wet methods, and prompt clean-up of debris. These work practices will be followed every time asbestos containing materials are disturbed. CWRU will utilize work practices that will maintain the asbestos containing material in an intact state when possible.

When performing Class III activities where no negative exposure assessment has been made CWRU employees will perform the following:

- HEPA vacuums, wet methods, and prompt clean-up will be employed.
- The work area will be regulated with barrier tape and an asbestos danger sign.
- Critical barriers will be sealed within the regulated area to isolate the work.
- A decontamination area will be established adjacent to the regulated work area and will consist of a piece of polyethylene sheeting on the floor.
- The work shall be performed utilizing local exhaust ventilation as feasible.
- Drop cloths will be placed on the floor directly beneath the work area.
- Polyethylene sheeting may be used to cover the contents within the regulated work area.
- CWRU employees will utilize PPE such as respirators equipped with HEPA filters, disposable suits, gloves, safety glasses, etc.
- CWRU will conduct OSHA personal air monitoring during these activities.

When performing Class III activities were a negative exposure assessment has been made CWRU employees will perform the following:

- The work area will be regulated with barrier tape and an asbestos danger sign
- HEPA vacuums, wet methods, and prompt clean-up will be employed
- The work shall be performed utilizing local exhaust ventilation. This may be in the form of tools equipped with HEPA filtration systems
- Drop cloths will be placed on the floor directly beneath the work area.
- Polvethylene sheeting may be used to cover the contents within the regulated work area.

3.4 Engineering Controls

CWRU employees are only trained to perform OSHA Class III work and have received Operations and Maintenance training consistent with 29 CFR 1926.1101 (k)(9)(v) of the OSHA standard. In addition to the engineering controls listed in 29 CFR 1926.1101 (g) (1)(i-iii) which include wet methods, use of HEPA filtered vacuums, and prompt clean up. CWRU will also utilize engineering controls which will minimize the exposure to employees performing asbestos work. To the extent feasible the work shall be performed utilizing local exhaust ventilation.

If the work being performed by CWRU exposes the employee above the permissible exposure limits or for which a negative exposure assessment has not been completed the work area shall be contained with impermeable drop clothes and polyethylene barriers.

3.5 Record Keeping

Exposure monitoring data utilized to establish a negative exposure assessment shall be maintained by CWRU for at least thirty (30) years from the time in which it was collected, in accordance with 29 CFR 1910.1020. All data utilized to identify asbestos containing materials found on the campus of CWRU will be kept for the life of the building. The records of CWRU employees that are in a medical surveillance program shall be maintained by CWRU for the employee's duration of employment plus an additional 30 years. Employee's training records shall be maintained by CWRU for one year past the last date of employment.

3.6 Worker Protection

CWRU will supply all necessary equipment and personal protective equipment (PPE) to employees dealing with asbestos containing materials. Examples of necessary equipment include but are not limited to polyethylene sheeting, duct tape, HEPA vacuums or HEPA equipped tools, caution tape, asbestos danger signs, and water sprayers.

PPE required to deal with asbestos containing materials will be provided to the employee at no cost. PPE may include respirators, HEPA filters, safety glasses, gloves, disposable suits, hearing protection, etc. IF a CWRU employee is issued a negative pressure respirator he/she will be included into CWRU respiratory protection program. The employee will be required to undergo a physical examination, in compliance with OSHA's respiratory protection standard 29 CFR 1910.134, to determine that the employee will be able to function normally while utilizing the respirator. Every employee issued a negative pressure respirator will also undergo fit testing to ensure that the respirator seal is adequate. The medical monitoring program and respirator fit testing will occur on an annual basis.

3.7 Initial Exposure / Negative Exposure Assessment

CWRU shall perform monitoring to determine accurately the airborne concentration of asbestos to which employees may be exposed. Determinations of employee's exposure will be made from samples collected from the employees breathing zone that are representative of the 8 hour time weighted average (8hr TWA) and 30 minute short term exposures of the employee. CWRU's employee that is designated as the "competent person" shall be responsible for collecting the personal air samples. The permissible exposure limit for asbestos is 0.1 fibers per cubic centimeter (F/CC) and the short-term excursion limit is 1.0 f/cc over a 30 minute time frame as defined by

OSHA. A negative exposure assessment is considered complete when the monitoring data is below the 0.1 f/cc PEL and the 1.0 f/cc excursion limit. A negative exposure assessment will remain valid for 12 months from the date which it was performed. The negative exposure assessment will remain valid for all projects that "closely resemble" the processes, type of material, control methods, work practices, and environmental conditions in the current operations and that all employees performing the work have the same training and experience of those employees sampled. CWRU will make available to the employee or their designated representative the opportunity to observe any monitoring of employee exposure to asbestos.

4.0 Emergencies

When performing emergency Class III operations where a negative exposure assessment has not been performed CWRU employees shall follow the procedures listed in section 3.3 Work Practices of this program for Class III activities where no negative exposure assessment has been performed.

5.0 References

OSHA 29 CFR 1926.1101 - Asbestos Construction Standard

OSHA 29 CFR 1910.134 – Respiratory Protection Standard

OSHA 29 CFR 1910.1020 – Access to Employee Exposure and Medical Records

EPA 40 CFR 763 – Asbestos Hazard Emergency Response Act

Appendices

Appendix A - Exposure Assessment Form

Appendix B - OSHA Quick Reference of Provisions by Work Class

Appendix B OSHA Quick Reference of Provisions by Work Class*

	Class I	Class II	Class III (CWRU Employees)	Class IV
Definition		Removal of material other than TSI or SM containing > 1% asbestos	Maintenance and repair operations disturbing material containing > 1% asbestos	Housekeeping and custodial cleanup of dust, waste, and debris from Class I, II, or III activities

Regulated Areas	Required (warning signs mandatory)	Required (warning signs mandatory)	Required (warning signs mandatory)	Required (warning signs mandatory)
Competent person	Must be onsite Must inspect each work shift Must attend supervisory training	Must be onsite Must inspect often Must attend supervisory training	Must be onsite Must inspect often Must attend operational and maintenance training	Must be onsite Must inspect often Must attend operational and maintenance training
Air Monitoring	Initial if no negative exposure assessment (NEA) Daily unless positive pressure mode respirator is used Additional if conditions change Note: Terminate if < permissible exposure limits (PELs)	•Initial if no NEA •Daily unless positive pressure mode respirator is used •Additional if conditions change Note: Terminate if < PELs	Initial if no NEA Periodic to accurately predict if > PELs Additional if conditions change Note: Terminate if < PELs	•Initial if no NEA •Periodic to accurately predict if > PELs •Additional if conditions change Note: Terminate if < PELs
Medical > Surveillance	Required if Wearing negative- pressure respirator, or > 30 days of work/year	Required if •Wearing negative-pressure respirator, or •> 30 days of work/year	Required if Wearing negative-pressure respirator, or > 30 days of work/year	Required if •Wearing negative- pressure respirator, or •> PEL for more than 30 days/year
Respirators	Mandatory for all Class I jobs	Mandatory if Non-intact removal, or No NEA, or PEL, or Dry removal (except for roofing), or In emergencies	Mandatory if No NEA, or TSI or SM disturbed, or PEL, or Dry removal (except for roofing), or In emergencies	Mandatory •In regulated area where required, or •If > PEL, or •In emergencies
Protective Clothing and Equipment	Required for all jobs if >> 25 linear or 10 square feet of TSI or •SM removal, or •No NEA, or >> PEL	Required for all jobs if No NEA, or PEL	Required for all jobs if •No NEA, or •> PEL	Required for all jobs if •No NEA, or •> PEL
Training	Equivalent to EPA Model Accreditation Plan (MAP) asbestos abatement workers course	Equivalent to MAP course if critical barriers required; otherwise, train on specific work practices and engineering controls that must be used	Equivalent to AHERA course for maintenance and custodial staff	Equivalent to AHERA course for maintenance and custodial staff
Employee and Equipment Decontamination	Required if > 25 linear or 10 square feet TSI or SM removal •Full decon unit •Equipment room, shower, and clean room in series connected to the regulated area; other decon facility arrangements are acceptable if the specified series arrangement is not feasible (see 29 CFR Part 1926.1101, Subpart Z) •Lunch areas Note: Must follow detailed decontamination procedures (see 29 CFR Part 1926.1101(j)(1)(iii) If < 25 linear or 10 square feet TSI or SM removal •Equipment room/area required •Area must accommodate cleanup •Must decontaminate all personal protective equipment (PPE) •Must enter regulated area through equipment room/decon area No smoking in work area	If > PEL or no NEA Equipment room/area required Impermeable drop cloths required Area must accommodate cleanup Must clean work clothes with HEPA vacuum before removal Must Decontaminate all PPE Must enter regulated area through equipment room/decon area Must enter regulated area through equipment room/decon area No smoking in work area	> PEL or no NEA Equipment room/area required Impermeable drop cloths required Area must accommodate cleanup Must clean work clothes with HEPA vacuum before removal Must Decontaminate all PPE Must enter regulated area through equipment room/decon area Must enter regulated area through equipment room/decon area NEA must vacuum No smoking in work area	If cleaning up asbestos containing surfacing material or thermal system insulation debris from a Class I or III activity after the activity is finished •Equipment room/area required •Drop cloths required •Area must accommodate cleanup •Must clean work clothes with HEPA vacuum before removal •Must decontaminate all PPE •Must enter regulated area through equipment room/decon area No smoking in work area Note: If cleaning up dust, waste, and debris while a Class I, II, or III activity is still in progress,

				the requirements of that activity apply.
Generally Required Work Practices and Engineering Controls	•Wet methods •HEPA vacuum •Prompt cleanup/disposal	Wet methods HEPA vacuum Prompt cleanup/disposal	Wet methods HEPA vacuum Prompt cleanup/disposal	•Wet methods •HEPA vacuum •Prompt cleanup/disposal
Required Work Practices and Engineering Controls to Comply with PELs	HEPA local exhaust Enclosure or isolation Directed ventilation Other work practices Respirators	•HEPA local exhaust •Enclosure •Directed ventilation •Other work practices •Respirators	•HEPA local exhaust •Enclosure •Directed ventilation •Other work practices •Respirators	•HEPA local exhaust •Enclosure •Directed ventilation •Other work practices •Respirators
Prohibited Work Practices and Administrative Controls	High-speed abrasive disc saws without HEPA Compressed air without capture device Dry sweeping/shoveling	•High-speed abrasive disc saws without HEPA •Compressed air without capture device •Dry sweeping/shoveling	•High-speed abrasive disc saws without HEPA •Compressed air without capture device •Dry sweeping/shoveling	High-speed abrasive disc saws without HEPA Compressed air without capture device Employee rotation
Controls and Work Practices	Critical barriers/isolation methods required if > 25 linear or 10 square feet of TSI or SM removal < 25 linear or 10 square feet of TSI or SM removal only if no NEA or there are adjacent workers HVAC isolation required Impermeable drop cloths required Directed ventilation required if no NEA or > a PEL Objects must be covered One or more of the following controls must be used: Negative-pressure enclosure Glove bag Negative-pressure glove bag Negative pressure glove box Water spray process Mini enclosure	For indoor work only Critical barriers/isolation methods required if no NEA likely > a PEL non-intact removal Impermeable drop cloths required For removal of vinyl and asphalt flooring materials No sanding HEPA vacuum Wet methods No dry sweeping Any mechanical chipping must be done in negative-pressure enclosure Intact removal if possible Dry heat removal allowed Assume contains asbestos without an analysis For removal of roofing materials Intact removal if possible Wet methods if feasible Cutting machine misting HEPA-vacuum debris Lower to ground as soon as possible but no later than day's end Control dust of unbagged material Prevent intake of airborne asbestos< through roof vent system Class II For removal of cement-like siding, shingles, or transite panels Intact removal if possible Wet Methods Lower to ground via dust-tight chute, crane, or hoist immediately or place in an impervious waste bag or wrap in plastic sheeting and lower to ground by day's end	•Critical barriers required • If no NEA • > Pel via monitoring •Impermeable drop cloths required •Local HEPA exhaust required Note: Enclosure or isolation of operation required if TSI or SM is drilled, cut, abraded, sanded, sawed, or chipped	See Generally Required Work Practices and Engineering Controls in this table

Cut nail heads For removal of gaskets Use glove bags if not intact Wet removal Prompt disposal Wet scraping Additional requirements Wet methods Intact removal if possible Cutting, abrading, or	
breaking prohibited	