

**BuildingName**  
**The Description of the Project**  
**P00000000 0000**

*ARCHITECTURE & ENGINEERING*  
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**SPECIFICATION DIVISION 2**

NUMBER      SECTION DESCRIPTION

**DIVISION 02 EXISTING CONDITIONS**

SECTION 028110 - REGULATED CONSTRUCTION WASTE REMEDIATION

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**DIVISION 02 EXISTING CONDITIONS**

**SECTION 028110 - REGULATED CONSTRUCTION WASTE REMEDIATION**

*SECTION ADDED 9/04*

*THIS SECTION DESCRIBES REQUIREMENTS FOR REMOVAL AND DISPOSAL OF REGULATED CONSTRUCTION WASTE, I.E., CONSTRUCTION WASTE THAT CANNOT BE DISPOSED OF WITH TYPICAL NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS. THIS APPLIES TO BUILDING ITEMS INCLUDING BUT NOT LIMITED TO MERCURY-CONTAINING EQUIPMENT, BATTERIES, SELF-LUMINESCENT EXIT SIGNS, FIRE EXTINGUISHERS AND BULK CLEANERS, PAINTS ETC. THAT WILL BE DISTURBED/REMOVED DURING DEMOLITION OR RENOVATION.*

*THE A/E MUST CONTACT OSEH EARLY IN THE DESIGN PHASE FOR A SURVEY OF REGULATED BUILDING WASTE TO BE DISTURBED/REMOVED.*

**1.1 SUMMARY**

- A. This Section specifies requirements for the removal, staging and disposal of Regulated Waste, including but not limited to the following:

*ALWAYS INCLUDE THE FOLLOWING PARAGRAPHS.*

1. Mercury-containing articles and equipment, including but not limited to controls, thermometers, thermostats, switches, manometers and gauges.
2. Batteries, including but not limited to lead-, nickel- and or mercury-containing batteries from exit signs, smoke detectors and backup power sources.
3. Smoke detectors.
4. Self-luminescent exit signs.
5. Containers of paint and paint related materials, cleaners, pesticides, compressed gas cylinders and above ground and below ground fuel tanks and portable fuel cans.
6. Fire extinguishers.
7. Electronic Waste, including but not limited to TVs, computers, monitors, printers and any other electronics containing a circuit board.
8. Hazardous or Liquid Industrial Waste.

- B. Extent of regulated building waste is as follows:

*SELECT FROM OPTIONS BELOW*

1. As identified in the survey.
2. As identified by the Contractor during demolition or construction.

**1.2 RELATED SECTIONS**

*DELETE PARAGRAPHS BELOW WHICH DO NOT APPLY TO THE PROJECT.*

- A. Asbestos abatement is covered in Division 02 Sections "Asbestos Remediation"; "Asbestos Remediation - Floor Tile and Mastic"; and "Asbestos Remediation - Roofing Material".

- B. Removal of lead products is covered in Division 02 Sections "Lead Remediation" and "Lead Remediation - Renovation, Repair and Painting in Child Care Facilities and Target Housing".
- C. PCB disposal is covered in Division 02 Section "PCB Remediation".
- D. Selective demolition is covered in Division 02 Section "Selective Demolition".
- E. Refrigerant handling and disposal is covered in Division 01 Section "Work Restrictions".
- F. Lamp and ballast recycling is covered in Division 26 Section "Basic Electrical Requirements".

### 1.3 DEFINITIONS

- A. The term "Construction and Demolition Debris" refers to Non-Hazardous Waste generated during construction, renovation and demolition projects.
- B. The term "Regulated Waste" refers to building equipment or materials that will be demolished as part of a renovation or construction project, but cannot be disposed of as typical Construction and Demolition Debris
- C. The term "EHS-HMM" refers to Owner's Environment, Health and Safety Department-Hazardous Materials Management program, 1239 Kipke Drive, Ann Arbor, MI 48109-1010, phone (734) 763-4568.
- D. The term "Project Site" indicates the limits of the project site as indicated on drawings or by provisions of this specification.

### 1.4 QUALITY ASSURANCE

- A. Contractor personnel must be thoroughly familiar with the following information:
  - 1. Proper methods for removal and staging of regulated waste. See PART 3, 3.2, A-E of this Section for requirements.
  - 2. Proper response in case of an emergency spill or leak. See PART 3, 3.2, F of this Section for requirements.

## PART 2 - PRODUCTS (NOT APPLICABLE)

## PART 3 - EXECUTION

### 3.1 NOTIFICATION

- A. Contact EHS immediately if fuel tanks or laboratory chemicals are discovered. EHS-HMM program personnel will arrange for proper removal and disposal of these materials.

### 3.2 REMOVAL AND STAGING OF WASTE

- A. Regulated Waste must be removed and staged in an intact state in an area easily accessible by EHS-HMM program personnel (loading dock).

- B. Do not disassemble exit signs. Stage whole exit sign for pickup by EHS-HMM.
- C. Store waste containers and other staged waste in a secure area (preferably a locked room) at the project site. Labels shall remain visible and shall be legible. Waste containers shall be inspected daily for leaks, closure, labeling and container integrity. Set containers securely on a hard surface which is accessible to EHS drum carts. Do not stage containers on lawns, dirt piles, gravel drives, areas with mud or basement areas with no elevator access.
- D. Place mercury-containing articles and equipment **ONLY** in EHS provided containers. Remaining waste types do not need to be containerized, but must be staged in a neat and orderly fashion and grouped by waste type (i.e. all batteries staged together, all paint staged together, etc.) Obtain empty containers from the EHS North Campus Transfer Facility, 1655 Dean Road. Contact the EHS-HMM program at 734-763-4568 at least three working days in advance to request pick-up of pails and/or drums.
- E. Do not mix Regulated Waste with trash, and construction debris. Contractor shall be responsible for costs incurred by the Owner for disposing of foreign items mixed with Regulated Waste. **DO NOT DISPOSE OF ANY REGULATED WASTE IN THE REGULAR SOLID WASTE. DO NOT DISPOSE OF ANY LIQUIDS IN THE REGULAR SOLID WASTE.**
- F. Handle mercury-containing articles and equipment with extreme care to prevent the release of elemental mercury. Mercury-containing articles and equipment shall be cushioned to prevent breakage. Leave enough space at the top of each container for the installation of lids. Ensure that the lid is secured tightly. Use duct tape or another strong tape if necessary to secure the lid.
- G. If elemental mercury is accidentally spilled due to the breakage of a mercury-containing article or equipment, immediately evacuate the area to limit exposure and contact the EHS-HMM program at 734-763-4568 (M-F, 8AM-5PM) or after hours the University of Michigan Department of Public Safety (DPS) 734-763-1131. DPS will notify UM EHS On-Call staff to respond to the scene and clean up the mercury.
  - 1. Without walking through the spill area, close off the area and restrict access to the spill site by locking doors to the room or taping off the area. Avoid tracking the material to other areas of the site.
  - 2. Remain at the project site until EHS or DPS personnel arrive at the scene.

### 3.3 DISPOSAL OF WASTE

- A. Disposal of regulated construction waste shall be done in coordination with EHS.
  - 1. Contact EHS at least one week in advance to request pick-up of the containers.
  - 2. EHS will package, pickup and dispose of properly staged Regulated Waste at no cost to the contractor. Call the EHS-HMM program at 734-763-4568 to schedule a pickup immediately after regulated waste has been staged.

END OF SECTION 028110