



Designation: E2271/E2271M – 22

Standard Practice for Clearance Examinations Following Lead Hazard Reduction Activities in Multifamily Dwellings¹

This standard is issued under the fixed designation E2271/E2271M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers visual assessment for the presence of deteriorated paint, surface dust, painted debris, and paint chips with environmental sampling of surface dust to determine whether a lead hazard exists at the time of sample collection, following lead-hazard reduction activities, or other building maintenance and modification activities.

1.2 This practice addresses clearance examination of multifamily dwellings having similar units, common areas or exterior sites.

1.3 This practice also addresses clearance examinations that may include soil sampling, for example when soil abatement has been performed.

1.4 This practice includes a procedure for determining whether regulatory requirements for lead clearance levels for dust and, where warranted, soil have been met, and, consequently whether a clearance area, passes or fails a clearance examination.

NOTE 1—This practice is based on that portion of “clearance” described in 40 CFR Part 745 for abatement, and in 24 CFR 35 for lead-hazard reduction activities other than abatement, except that composite dust sampling as described therein is not used.

1.5 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined.

1.6 *Methods described in this practice may not meet or be allowed by requirements or regulations established by local authorities having jurisdiction. It is the responsibility of the user of this standard to comply with all such requirements and regulations.*

1.7 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the*

responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.8 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

- D1356 Terminology Relating to Sampling and Analysis of Atmospheres
- D4840 Guide for Sample Chain-of-Custody Procedures
- D5124 Practice for Testing and Use of a Random Number Generator in Lumber and Wood Products Simulation
- E631 Terminology of Building Constructions
- E1480 Terminology of Facility Management (Building-Related)
- E1583 Practice for Evaluating Laboratories Engaged in Determination of Lead in Paint, Dust, Airborne Particulates, and Soil Taken From and Around Buildings and Related Structures
- E1605 Terminology Relating to Lead in Buildings
- E1727 Practice for Field Collection of Soil Samples for Subsequent Lead Determination
- E1728/E1728M Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination
- E1792 Specification for Wipe Sampling Materials for Lead in Surface Dust
- E2239 Practice for Record Keeping and Record Preservation for Lead Hazard Activities
- E2255/E2255M Practice for Conducting Visual Assessments for Lead Hazards in Buildings

¹ This practice is under the jurisdiction of ASTM Committee D22 on Air Quality and is the direct responsibility of Subcommittee D22.12 on Sampling and Analysis of Lead for Exposure and Risk Assessment.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.



E3074/E3074M Practice for Clearance Examinations Following Lead Hazard Reduction Activities in Single Family Dwellings, in Individual Units of Multifamily Dwellings, and in Other Child-Occupied Facilities

2.2 *U.S. Regulations:*³

24 CFR (Code of Federal Regulations) 35, Department of Housing and Urban Development (HUD), Requirements for Notification, Evaluation and Reduction of Lead-Based Paint Hazards in Federally Owned Residential Property and Housing Receiving Federal Assistance (especially subparts B and R)

40 CFR 745, Environmental Protection Agency (EPA), Lead-Based Paint Poisoning Prevention in Certain Residential Structures (especially subparts D, L and Q)

2.3 *Governmental Agency Guidance:*^{4,5}

EPA National Lead Laboratory Accreditation Program (NL-LAP)

3. Terminology

3.1 *Definitions*—For definitions of terms not appearing here, see Terminologies **D1356**, **E631**, **E1480**, and **E1605**.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *clearance area, n*—work area and additional spaces outside the work area where lead contamination may have occurred during lead hazard reduction and other building maintenance or modification activities.

3.2.1.1 *Discussion*—The spaces outside the work area may include rooms connected to the work area, egress routes, waste storage areas, and grounds adjoining exterior work areas.

3.2.2 *work area, n*—the interior or exterior space where lead hazard control or other building maintenance or modification activities are performed.

3.2.2.1 *Discussion*—The interior work space may include (1) a portion of a room, an entire room, or room equivalent, or (2) portions of multiple rooms, multiple rooms or room equivalents, depending upon the extent or location, or both, of the lead hazard control activity. The exterior workspace may include (1) a portion of a building façade, an entire building façade, associated structures, such as fences, and (2) bare soil.

4. Significance and Use

4.1 A clearance examination of abatement areas and other areas associated with other lead-hazard control activities, or building maintenance or modification activities in multifamily dwellings having similar units, common areas or exterior sites is performed to determine that the clearance area is adequately safe for reoccupancy.

4.2 It is the responsibility of the user of this standard to assure that all regulatory, contractual, and personnel require-

ments are met prior to conduct of a clearance examination. At a minimum, users of this standard shall be trained in its use and in safe practices for its conduct.

4.3 This practice is one of a set of standards developed for lead hazard management activities. The visual assessment procedures required in this standard are found in Practice **E2255/E2255M** and the record keeping requirements are found in Practice **E2239**.

4.4 Although this practice was primarily developed for multifamily dwellings, this practice may be also applied to nonresidential buildings and related structures by agreement between the client and the individual conducting the clearance examination.

4.5 This practice may be used by owners and property managers, including owner-occupants, and others responsible for maintaining facilities. It may also be used by lead hazard management consultants, construction contractors, labor groups, real estate and financial professionals, insurance organizations, legislators, regulators, and legal professionals.

4.6 This standard does not address whether lead-hazard reduction activities or other building modification or maintenance work were done properly.

5. General Requirements

5.1 *Applicable Regulations*—The clearance examination shall be conducted in accordance with all regulations promulgated by authorities having jurisdiction. Applicable regulations are those that are currently in force in jurisdictions where the clearance examination is conducted.

5.2 *Personnel Qualifications*—All persons conducting or participating in the clearance examination shall be qualified in accordance with regulations promulgated by authorities having jurisdiction.

NOTE 2—For example, in the United States of America, 40 CFR Part 745, Subpart L, or 24 CFR Part 35, Subpart R, or both, may apply.

5.3 *Reporting Schedule*—Before arriving at the property, determine with the client the schedule for reporting the results of the clearance examination. Specify in hours or days when the clearance summary and clearance report are due to the client. Consider in the reporting schedule the following: when the last sample for the clearance examination is to be collected; when the results of testing are to be available; and, whether and how reoccupancy, additional construction, or maintenance work, or other factors affect the schedule.

5.4 *Dust Wipe Sampling Materials*—Use only dust wipes that meet Specification **E1792** to collect samples of surface dust.

5.5 *Dust Sampling Procedure*—Collect surface dust wipe samples in accordance with Practices **E1728/E1728M** and **E3074/E3074M**. Record the unique location description, unique sample identifier, the dimensions of the area sampled, and all other sample collection information on the Paint/Dust/Debris Data Form (given in Practice **E2255/E2255M**).

5.6 *Soil Sampling Procedure*—When required, collect soil samples in accordance with Practice **E1727**. Record the unique location description, unique sample identifier, and all other

³ Available from U.S. Government Publishing Office (GPO), 732 N. Capitol St., NW, Washington, DC 20401, <http://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR>.

⁴ Available from U.S. Dept. of Housing and Urban Development (HUD), 451 7th Street SW, Washington DC 20410, https://www.hud.gov/program_offices/healthy_homes/.

⁵ Available from United States Environmental Protection Agency (EPA), William Jefferson Clinton Bldg., 1200 Pennsylvania Ave., NW, Washington, DC 20460, <http://www.epa.gov>.