LEED BD+C: Healthcare | v3 - LEED 2009

PBT source reduction - mercury

MRp2 | Required

Glossary

Intent

To reduce mercury-containing products and devices and mercury discharge through product substitution, capture and recycling.

Requirements

- As part of the recycling collection system developed in compliance with MR Prerequisite 1: Storage and Collection of Recyclables, identify:
  - types of mercury containing products and devices[1] to be collected,
  - criteria governing how they are to be handled by a recycling program, and
  - disposal methods for captured mercury.
- In facilities delivering dental care, specify and install amalgam separation devices that meet or exceed the standard ISO-11143.
- Comply with the mercury elimination requirement outlined in the 2010 FGI Guidelines for Design and Construction of Health Care Facilities (Section A1.3- 4b: Mercury Elimination).
  - 4.2.1.1 New construction. In new construction, healthcare facilities shall not use mercury-containing equipment, including thermostats, switching devices, and other building system sources. (Lamps are excluded.)
  - 4.2.1.2 Renovation. For renovation, healthcare facilities shall develop a plan to phase out mercury-containing products and upgrade current mercury-containing lamps to high efficiency, low mercury or mercury free lamp technology.
- Do not specify or install preheat, T-9, T-10, or T-12 fluorescents or mercury vapor type high intensity discharge (HID) lamps in the project. Do not specify probe start metal halide HID lamps in interior spaces in the project.
- Only specify and install illuminated exit signs that use Light-Emitting Diode (LED) or Light-Emitting Capacitor (LEC) lamps and use less than 5 watts of electricity.
- Specify and install fluorescent and high-pressure sodium lamps that meet the following criteria:

Fluorescent Lamp	Criteria
T-8 Eight-foot	Maximum 10 mg mercury
T-8 Four-foot or shorter	Maximum 3.5 mg mercury
T-8 U-Bent	Maximum 6 mg mercury
T-5 Linear	Maximum 2.5 mg mercury
T-5 Circular	Maximum 9 mg mercury
Compact fluorescent, non-integral ballast	Maximum 3.5 mg mercury
Compact fluorescent, integral ballast	Maximum 3.5 mg mercury Energy Star® qualified
High Pressure Sodium Lamp	**Criteria**
Up to 400-watt	Maximum 10 mg mercury
Above 400-watt	Maximum 32 mg mercury

[1]Applicable mercury-containing products and devices include, but are not limited to, lamps (such as linear and circular fluorescents, integrally ballasted and non-integrally ballasted compact fluorescents and HIDs) and dental wastes (such as scrap amalgam, chair side traps, and separator wastes).