

U.S. Environmental Protection Agency

Facilities Manual Volume 2:
Architecture and Engineering Guidelines

Sections Affected by Addendum I



July 20, 2006

This document is a reference for EPA's Architecture and Engineering Guidelines, Addendum I, which supplements the existing four volumes of the *EPA Facilities Manual* with the updated energy efficiency procurement requirements of the Energy Policy Act of 2005 (EPAAct 2005). The following is a list of sections in EPA Facilities Manual Volume 2: Architecture and Engineering Guidelines affected by the energy efficiency procurement requirements of EPAAct 2005. EPA made no changes to Volumes 1, 3, or 4 as a result of the EPAAct 2005 requirements or Addendum I.

Sections Affected by Addendum I

Section – Title

Section 1.4.2.2. – Energy-Conscious Design (four separate locations)

- *General reference to EPAAct*
- *6.1, Residential windows*
- *2.0, Commercial and industrial equipment and 4.0, Appliances*
- *1.0, Lighting*

Section 1.4.6 – Amenities (*3.6, Beverage vending machines; 3.1, Refrigerators*)

Section 1.6.2.1 – Conference Room (*3.6, Beverage vending machines*)

Section 1.6.2.5 – Coffee/Vending (*3.6, Beverage vending machines*)

Section 1.6.2.7 – Visitor Information Center (*3.6 Beverage vending machines*)

Section 2.5.1 – Landscaping and Site-Related Requirements General (*1.0, Lighting*)

Section 2.5.3.4 – Site Lighting (*1.0, Lighting*)

Section 2.7.4.1 – Roof Recovery, Cistern (*6.2, Roof products*)

Section 2.7.5.1 – Storm Sewers (*6.2, Roof products*)

Section 2.8.4 – Electrical Distribution Systems (*1.0, Lighting*)

Section 8.2.1. – Windows General (*6.1, Residential windows*)

Section 8.3.2 – Sun Shading (*6.1, Residential windows*)

Added Section 11.11 – Procurement of Energy Efficient Equipment (*General reference to EPAAct and addendum*)

Section 15.2 References (*General reference to EPAAct*)

Section 15.3.1 – HVAC Design Criteria General (*2.0, Commercial and industrial equipment and 4.0, Appliances*)

Section 15.3.2.1 – Laboratory Ventilation Requirements (*2.0, Commercial and industrial equipment and 4.0, Appliances*)

Section 15.3.7 – Energy Efficiency (*2.0, Commercial and industrial equipment and 4.0, Appliances*)

Section 15.4.1 – Automatic Control Systems General (2.0, *Commercial and industrial equipment and 4.0, Appliances*)

Section 15.4.5 – Energy Conservation Control Schemes (2.0, *Commercial and industrial equipment and 4.0, Appliances*)

Section 15.5.1 – HVAC Systems General (two locations)
2.0, *Commercial and industrial equipment and 4.0, Appliances*
2.2, *Air-cooled chillers*; 2.3, *Water-cooled chillers*

Section 15.5.2 – Air-Conditioning Systems (2.2, *Air-cooled chillers*; 2.3, *Water-cooled chillers*)

Section 15.5.3 – Water Chillers (2.2, *Air-cooled chillers*; 2.3, *Water-cooled chillers*)

Section 15.5.6.3 – Building Heating Systems (2.0, *Commercial and industrial equipment*)

Section 15.5.7 – Heating Equipment (2.6, *Boilers*)

Section 15.5.10 – Pumps and Pumping Systems (2.9, *Centrifugal pumping systems*)

Section 15.5.16.2 – Steam and High Temperature Water Generation (2.6, *Boilers*)

Section 15.5.16.3 – Circulation Pumps (2.9, *Centrifugal pumping systems*)

Section 15.7.10 – Effluent Cleaning (4.8, *Room air cleaners*)

Section 15.10.6 – Laboratory Safety Devices (5.2, *Showerheads*)

Section 15.10.6.2 – Emergency Safety Showers (5.2, *Showerheads*)

Section 15.10.11 – Toilet Facilities (5.3, *Toilets*; 5.4, *Urinals*)

Section 15.10.11.6 – Water-Conserving Water Closets, Sinks, and Lavatories (5.1, *Faucets*; 5.3, *Toilets*; 5.4, *Urinals*)

Section 15.10.12 – Shower Stalls (5.2, *Showerheads*)

Section 15.10.15 – Single Pass Cooling (2.2, *Air-cooled chillers*; 2.3, *Water-cooled chillers*)

Section 16.1.3 – Energy Conservation in Design (1.0, *Lighting*)

Section 16.5.1 – Illuminance Levels (1.0, *Lighting*)

Section 16.5.3 – Lamps and Ballasts (1.5, *Fluorescent luminaries*; 1.6, *Downlight luminaries*; 1.7, *Industrial HID luminaries*)

Section 16.5.3.2 – Ballasts (1.4, *Fluorescent ballasts*)

Section 16.5.3.3 – Light Fixture Selection (1.2, *Residential light fixtures*)

Section 16.5.5 – Energy Conservation (*General reference to EPA Act*)

Section 16.6.2 – Fluorescent Fixtures (*1.3, Fluorescent tube lamps; 1.4, Fluorescent ballasts; 1.5, Fluorescent luminaries*)

Section 16.7.1. – Exterior Lighting General (*1.0, Lighting*)

Section 16.7.1.2. – High Intensity Discharge Lamps (*1.7, Industrial HID luminaries*)

Section 16.7.4 – Traffic Control Lighting (*1.10, Traffic Signals*)

Section 16.11.3 – Lighting (*1.0, Lighting*)

Section 16.15.5 – Exit Lighting and Markers (*1.8, Exit signs*)