

## EXHIBIT 53

### Proposed Amendment #1

*Change paragraph P2601.2 in the International Residential Code 2006 edition to add the following exception:*

**P2601.2 Connection.** Plumbing fixtures, drains and appliances used to receive or discharge liquid wastes or sewage shall be connected to the sanitary drainage system of the building or premises in accordance with the requirements of this code. This section shall not be construed to prevent indirect waste systems.

**Exception:** Bathtubs, showers, lavatories, clothes washers and laundry trays are not required to discharge to the sanitary drainage system where those fixtures discharge to an approved gray water recycling system for flushing of water closets provided the system complies with Sections AO101 and AO102 of Appendix O.

#### **Current Language:**

**P2601.2 Connection.** Plumbing fixtures, drains and appliances used to receive or discharge liquid wastes or sewage shall be connected to the sanitary drainage system of the building or premises in accordance with the requirements of this code. This section shall not be construed to prevent indirect waste systems.

#### **Reason for Proposed Amendment:**

An increasing trend in “green building” technology calls for the recycling of grey water in order to decrease the environmental impact and lower the amount of potable water being used for flushing of water closets. This amendment would allow the installation of these gray water recycling systems. The current language only permits connection of fixtures to the sanitary drainage system. The proposed amendment is an exception that would allow the connection of fixtures which create gray water to a collection system which would then be pressurized to provide gray water for the flushing of water closets. The Appendix O provisions call for the water to be disinfected and distinguished by coloring. The piping and components must be clearly marked to identify potable vs non-potable contents.

Accepting this amendment would make these systems available to the citizens of New Hampshire for flushing water closets in accordance with the provisions of Appendix O in the 2006 edition of the International Residential Code.

The recycling of gray water for irrigation purposes requires a permit from the Department of Environmental Services and is therefore not part of the proposed amendment.

## Proposed Amendment #2

*Adopt Appendix O, Gray Water Recycling Systems located on pages 635 to 639 of the International Residential Code 2006 edition, Sections AO101 General and AO102 Systems for Flushing Water Closets and Urinals. (Section AO103 Subsurface Landscape Irrigation Systems is not included in this adoption.)*

*Amend Section AO101.1 Scope. The provisions of this appendix shall govern the materials, design, construction and installation of gray water systems for flushing of water closets and urinals ~~and for subsurface landscape irrigation.~~*

### **Reason for proposed amendment:**

New Hampshire has adopted the 2006 International Residential Code but without any of the appendices. Appendices, if desired or needed, must be adopted specifically. It is necessary to adopt Appendix O to allow the recycling of gray water systems.

Only sections AO101 and AO102 are being requested to be adopted. The Department of Environmental Services requires permits for any use of gray water systems being used for irrigation purposes. Therefore, section AO103 is NOT being requested to be adopted. Only the sections that pertain to the use of gray water for flushing water closets and urinals are being proposed to be adopted.

The elimination of the phrase “and for subsurface landscape irrigation” in **Section AO101.1** is proposed to be deleted because DES requires permits for such systems and is therefore beyond the scope of the State Building Code.

## Proposed Amendment #3

*Change paragraph 301.3 of the International Plumbing Code 2006 edition to add the following exception:*

**301.3 Connections to drainage system.** All plumbing fixtures, drains, appurtenances and appliances used to receive or discharge liquid wastes or sewage shall be directly connected to the sanitary drainage system of the building or premises, in accordance with the requirements of this code. This section shall not be construed to prevent indirect waste systems required by Chapter 8.

**Exception:** Bathtubs, showers, lavatories, clothes washers and laundry trays shall not be required to discharge to the sanitary drainage system where such fixtures discharge to an approved gray water system for flushing of water closets and urinals provided the system complies with Sections C101 and C102 of Appendix C.

### **Current Language:**

**301.3 Connections to drainage system.** All plumbing fixtures, drains, appurtenances and appliances used to receive or discharge liquid wastes or sewage shall be directly connected to the sanitary drainage system of the building or premises, in accordance with the requirements of this code. This section shall not be construed to prevent indirect waste systems required by Chapter 8.

### **Reason for Proposed Amendment:**

An increasing trend in “green building” technology calls for the recycling of grey water in order to decrease the environmental impact and lower the amount of potable water being used for flushing of water closets. This amendment would allow the installation of these gray water recycling systems. The current language only permits connection of fixtures to the sanitary drainage system. The proposed amendment is an exception that would allow the connection of fixtures which create gray water to a collection system which would then be pressurized to provide gray water for the flushing of water closets. The Appendix C provisions call for the water to be disinfected and distinguished by coloring. The piping and components must be clearly marked to identify potable and non-potable contents.

Accepting this amendment would make these systems available to the citizens of New Hampshire for flushing water closets and urinals in accordance with the provisions of Appendix C in the 2006 edition of the International Plumbing Code.

The recycling of gray water for irrigation purposes requires a permit from the Department of Environmental Services and is therefore not part of the proposed amendment.

## Proposed Amendment #4

*Adopt Appendix C, Gray Water Recycling Systems located on pages 105 to 109 of the International Plumbing Code 2006 edition, Sections C101 General and C102 Systems for Flushing of Water Closets and Urinals. (Section C103 Subsurface Landscape Irrigation Systems is not included in this adoption.)*

Amend **Section C101.1 Scope**. The provisions of this appendix shall govern the materials, design, construction and installation of gray water systems for flushing of water closets and urinals ~~and for subsurface landscape irrigation.~~

### **Reason for proposed amendment:**

New Hampshire has adopted the 2006 International Plumbing Code but without any of the appendices. Appendices, if desired or needed, must be adopted specifically. It is being requested to adopt Appendix C to allow the recycling of gray water systems.

Only sections C101 and C102 are being requested to be adopted. The Department of Environmental Services requires permits for any use of gray water systems being used for irrigation purposes. Therefore, section C103 is NOT being requested to be adopted. Only the sections that pertain to the use of gray water for flushing water closets and urinals are being proposed to be adopted.

The elimination of the phrase “and for subsurface landscape irrigation” under **Section C101 Scope** is proposed to be deleted because DES requires permits for such systems and is therefore beyond the scope of the State Building Code.