

4714.1602 NONPOTABLE RAINWATER CATCHMENT SYSTEMS.

Subpart 1. **Section 1602.1.** UPC section 1602.1 is amended to read as follows:

1602.1 General. The installation, construction, alteration, and repair of rainwater catchment systems intended to supply uses such as water closets, urinals, trap primers for floor drains and floor sinks, industrial processes, water features, vehicle washing facilities, cooling tower makeup, and similar uses shall be approved by the commissioner.

Subp. 2. **Section 1602.2.** UPC section 1602.2 is amended to read as follows:

1602.2 Plumbing Plan Submission. No permit for a rainwater catchment system shall be issued until complete plumbing plans have been submitted and approved by the commissioner in accordance with Minnesota Rules, part 1300.0215, subpart 6.

Subp. 3. **Section 1602.4.** UPC section 1602.4 is amended to read as follows:

1602.4 Connections to Potable or Reclaimed (Recycled) Water Systems. Rainwater catchment systems shall have no direct connection to a potable water supply or alternate water source system. Potable or reclaimed (recycled) water is permitted to be used as makeup water for a rainwater catchment system provided the potable or reclaimed (recycled) water supply connection is protected by an air gap or reduced-pressure principle backflow preventer in accordance with this code. An automatic means to supply the rainwater catchment system with makeup water shall be installed when there is insufficient rainwater to meet the required demand or due to system failure.

Subp. 4. **Section 1602.5.** UPC section 1602.5 is amended to read as follows:

1602.5 Initial Cross-Connection Test. Where a portion of a rainwater catchment system is installed within a building, a cross-connection test is required in accordance with section 1605.3, as amended. Before the building is occupied or the system is activated, the plumbing contractor shall perform the initial cross-connection test in the presence of the Authority Having Jurisdiction. The test shall be ruled successful before final approval is granted.

Subp. 5. **Section 1602.7.** UPC section 1602.7 is amended to read as follows:

1602.7 Rainwater Catchment System Materials. Rainwater catchment system materials shall comply with sections 1602.7.1 through 1602.7.4.

1602.7.1 Water Supply and Distribution Materials. Rainwater catchment water supply and distribution materials shall comply with Chapter 6, as amended in this code, and the requirements of this code for potable water supply and distribution systems, unless otherwise provided for in this section.

1602.7.2 Rainwater Catchment System Drainage Materials. Materials used in rainwater catchment drainage systems, including gutters, downspouts, conductors, and leaders shall be in accordance with Chapter 11, as amended in this code, and the requirements of this code for storm drainage.

1602.7.3 Storage Tanks. Rainwater storage tanks shall comply with section 1603.1, as amended in this code.

1602.7.4 Collection Surfaces. The collection surface shall be constructed of a hard, impervious material.

Subp. 6. **Section 1602.9.** UPC sections 1602.9.3 and 1602.9.5 are amended to read as follows:

1602.9.3 Collection Surfaces. Rainwater catchment systems shall collect rainwater only from roof surfaces. Rainwater catchment systems shall not collect rainwater from:

- (1) vehicular parking surfaces;
- (2) surface water runoff;
- (3) bodies of standing water; or
- (4) similar nonroof surfaces.

1602.9.5 Prohibited Discharges. Overflows and bleed-off pipes from roof-mounted equipment and appliances, condensate, and other waste disposal shall not discharge onto roof surfaces that collect rainwater for rainwater catchment systems.

Subp. 6a. **Subsection 1602.9.4.** UPC subsection 1602.9.4 is deleted in its entirety.

Subp. 7. **Section 1602.9.** UPC section 1602.9.6 is amended to read as follows:

1602.9.6 Minimum Water Quality. The minimum water quality for rainwater catchment systems shall meet the applicable water quality recommendations in Table 1602.9.6.

Subp. 8. **Table 1602.9.6.** UPC Table 1602.9.6 is amended to read as follows:

TABLE 1602.9.6

Measure	Limit
E. coli (MPN/100 mL)	2.2
Odor	Non-offensive
Temperature (degrees Celsius)	MR
Color	MR
pH	MR

MR = measured and recorded only

Treatment:

100-micron or smaller filter

Minimum 3.5-log reduction of bacteria

Statutory Authority: *MS s 326B.43; 326B.435*

History: *45 SR 1007; 46 SR 857*

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