

STATE OF NEW HAMPSHIRE DEPARTMENT OF SAFETY

John J. Barthelmes, Commissioner



Division of Fire Safety
OFFICE OF THE STATE FIRE MARSHAL
J. William Degnan, State Fire Marshal

Office: NH Incident Management Center, 110 Smokey Bear Blvd., Concord, NH
Mailing Address: 33 Hazen Drive, Concord, NH 03305
PHONE 603-223-4289, FAX 603-223-4294 or 603-223-4295
TDD Access: Relay NH 1-800-735-2964 ARSON HOTLINE 1-800-400-3526

INFORMATIONAL BULLETIN

Table with 5 columns: BULLETIN #, TITLE, DATE ISSUED, SUPERSEDES, RELEASED BY, APPROVED BY, SOURCE, SUPERSEDED BY. Row 1: 2014-01, Chemical Dispensing Appliance Installation, January 15, 2014. Row 2: JBC, Mech. Licensing Board, 2009 International Plumbing Code.

Chemical Dispensing Appliance Installation

For many years there have been questions pertaining to the safe installation and operation of chemical dispensing systems. Questions continually arise from plumbers, and the inspection community as to how these systems should be properly installed and maintained. The improper installation of a chemical dispensing has led to the interconnection of potable water systems resulting in the failure of tempered water delivery and creating a health hazard for the end users.

This technical document seeks to offer clarification on these systems, their installation, and the correction of any violations on current systems. Chemical dispensing companies, NH licensed plumbers, and building officials may consider using this document as guide for future installations, as well as steps to correct current systems presently in violation of the 200 International Plumbing Code. Each bullet point has been tied to a reference number in the current adopted standard for the user's convenience.

Questions on the references and application of this document may be addressed by the Mechanical Safety & Licensing Section of the New Hampshire Department of Safety. The phone number is (603) 223-4289. Formal interpretation concerns may be addressed to the New Hampshire Mechanical Licensing Board at FMO@dos.nh.gov.

- Changes in chemical suppliers and/or chemical appliances, and upgrades to existing Mop Sinks, Three Bay Sinks, or Kitchen Sinks employing Chemical Dispensing Appliances must adhere to the 2009 International Plumbing Code, (IPC), and shall be equipped with the dispensing appurtences that do not permit for inter-connection of the domestic hot & cold water systems. Refer to 2009 IPC, Section 102.4
• Information on acceptable connections for Chemical Dispensing Systems can be obtained through Eco-Labs, Safety-Kleen and/or Proctor & Gamble. Refer to the 2009 IPC, Section 301.4.

Continuation of Chemical Dispensing Appliance Installation

- Large scale systems found to have inter-connection issues that affect the hot and/or cold water systems or the proper distribution of tempered water to other institutional appliances, must consider retrofitting their mop sinks to correct the code violations. This may be accomplished through a phase in program acceptable to the Local AHJ. Refer to the 2009 IPC, Section 405.01 and Section 604.2.
- All piping, fixtures, and flexible supply piping to Chemical Dispensing Appliances must comply with NSF 61. Appropriate information and tables can be found in the 2009 IPC, Sections; 605.4 – 605.6.
- All Chemical Dispensing Appliances must have an acceptable “Air-Gap” or acceptable protection device in accordance with the 2009 IPC, sections 608.13 & 608.16.
- New mop sinks and kitchen appliances using Chemical Dispensing Appliances must have a dedicated water supply and outlet fittings specifically for connection to the chemical dispensing appliance.
- New fixture appliances may not be modified beyond their intended use to accommodate Chemical Dispensing Appliances. Refer to 2009 IPC, Section 604.1
- The water connection supplied must meet the desired temperature range for the chemical dispensing appliance. This information is to be supplied to the NH Licensed Plumber by the Chemical Supplier. This information is required for the proper operation of the chemical dispensing appliance. The licensed NH plumber is obligated to supply the chemical dispensing appliance with a means of adjusting the temperature range to maximize efficiency of the dispensing system. Refer to 2009 IPC, Section 604.2 & 608.6 & 613.1
- The water connection supply outlet must be equipped with both a dedicated supply valve and proper backflow protection devices. Refer to 2009 IPC, Section 606.2 & 608.2
- No person or firm may modify any appliance or install the plumbing system components required for the proper installation of the chemical dispensing appliance without the proper State of NH Plumbing License. The chemical supplier may be permitted to install the chemical dispensing appliance, install the NSF 61 approve flexible supply line by means of a connecting through a “quick-disconnect” or hose type coupling device, and adjust the temperature setting without a NH plumbing license. NH RSA 329-A
- Local permits and inspections may be required in conjunction with the mandatory DHHS Standards