Washington State Amendments	UPC- 2015	Sugnificant Changes To UPC-2018
102.1 Conflict Between Codes. Delete paragraph.		
	101.7 102.3 Maintenance. The plumbing and drainage system of a premises under the	
	Authority Having Jurisdiction shall be maintained in a sanitary and safe operating condition	
	by the owner or owner's agent. Devices or safeguards required by this code shall be	
	maintained in accordance with the code edition under which installed.	
	The owner or the owner's designated agent shall be responsible for maintenance of the	
	plumbing system. To determine compliance with this subsection, the Authority Having	
	Jurisdiction shall be permitted to cause a plumbing system to be reinspected.	
	101.9 102.4 Additions, Alterations, or Repairs. Additions, alterations, renovations, or	
	repairs <u>shall</u> conform to that required for a new system without requiring the existing	
	plumbing system to be in accordance to be in accordance with the requirements of this	
	code. Additions, alterations, renovations, or repairs shall not cause an existing system to	
	become unsafe, insanitary, or overloaded.	
	Additions, alterations, renovations, or repairs to existing replacement of plumbing systems	
	shall comply with the provisions for new construction, unless such deviations are found to	
	be necessary and are first approved by the Authority Having Jurisdiction. systems except	
	as otherwise provided in Section 101.11.	
	101.11.5 102.7 Moved Buildings Structures. Revised and renumbered.	
103.3.1 Certification. State rules and regulations concerning certification shall apply.		
	104.3.1 Construction Documents. New section.	
	104.4.1 Approved Plans or Construction Documents. New section.	
	104.4.4 Extensions. New section.	
	103.5.2 New Plumbing Work 105.2 Required Inspections.	
	Add- The Authority Having Jurisdiction shall make the following inspections and other such	
	inspections as necessary. The permittee of the permittee's authorized agent shall be	
	responsible for the scheduling of such inspections as follows:	
	(1) Underground inspection shall be made after trenches or ditches are excavated and	
	bedded, pipe installed, and before backfill is put in place.	
	(2) Rough-in inspection shall be made prior to installation of wall or ceiling membranes.	
	(3) Final inspection shall be made upon completion of the installation.	
	105.4 Connection to Service Utility. New section.	
	203.0 Accepted Engineering Practice. New definition.	
	203.0 Anesthetizing Location. New definition.	
	203.0 Appliance. New definition.	
	203.0 Appliance, Low-Heat. New definition.	
	203.0 Appliance, Medium-Heat. New definition.	
	204.0 Bottle Filling Station. New definition.	
205.0 Certified Backflow Assembly Tester - A person certified by the Washington state department of	205.0 Category 1. New definition.	
health under chapter 246-292 WAC to inspect (for correct installation and approval status) and test (for proper		
operation), maintain and repair (in compliance with chapter 18.106 RCW) backflow prevention assemblies,		
devices and air gaps.		
	205.0 Category 2. New definition.	
	205.0 Category 3. New definition.	
	205.0 Category 3 Medical Vacuum System. New definition.	
	205.0 Chimney, High-Heat Appliance-Type. New definition.	
	205.0 Chimney, Low-Heat Appliance-Type. New definition.	
	205.0 Chimney, Medium-Heat Appliance-Type. New definition.	
	205.0 Chimney, Residential Appliance-Type. New definition.	
	205.0 Condensate. New definition.	
	205.0 Construction Documents. New definition.	
	205.0 Copper Alloy. New definition.	
	205.0 Critical Care Area. New definition.	
	206.0 Drinking Fountain. New definition.	
	206.0 Dry Vent. New definition.	
	207.0 Exam Room. New definition.	
	207.0 Expansion Joint. New definition.	
	208.0 Fixture Fitting. New definition.	
210.0 Hot Water - Water at a temperature exceeding or equal to 100°F.		

211.0 Insanitary - A condition that is contrary to sanitary principles or is injurious to health.		
Conditions to which "insanitary" shall apply include the following:		
(1) A trap that does not maintain a proper trap seal.		
 An opening in a drainage system, except where lawful, that is not provided with an approved liquid-sealed 		
(2) An opening in a dramage system, except where fawful, that is not provided with an approved inquid-seared trap.		
(3) A plumbing fixture or other waste discharging receptor or device that is not supplied with water sufficient		
to flush and maintain the fixture or receptor in a clean condition, except as otherwise provided in this code.		
 (4) A defective fixture, trap, pipe, or fitting. 		
(5) A trap, except where in this code exempted, directly connected to a drainage system, the seal of which is		
not protected against siphonage and backpressure by a vent pipe.		
(6) A connection, cross-connection, construction, or condition, temporary or permanent, that would permit or		
make possible by any means whatsoever for an unapproved foreign matter to enter a water distribution		
system used for domestic purposes.		
(7) The foregoing enumeration of conditions to which the term "insanitary" shall apply, shall not preclude the		
application of that term to conditions that are, in fact, insanitary.		
	212.0 Joint, Compression. New definition.	
	212.0 Joint, Flanged. New definition.	
	212.0 Joint, Flared. New definition.	
	212.0 Joint, Mechanical. New definition.	
	214.0 Levels of Sedation. New definition.	
	215.0 Medical Air. Revised.	
	215.0 Medical Gas. Revised.	
	215.0 Medical Gas System. Revised.	
	215.0 Medical Support Gas. New definition.	
	215.0 Medical-Surgical Vacuum. New definition.	
	215.0 Medical-Surgical Vacuum System. New definition.	
218.0 Plumbing System - Includes all potable water, building supply and distribution pipes, all reclaimed or other	218.0 Patient Care Room. New definition.	218.0 Patient Care Space. Revised.
alternate source water systems, all rainwater systems, all plumbing fixtures and traps, all drainage and vent pipe(s),		
and all building drains including their respective joints and connection, devices, receptors, and appurtenances within		
the property lines of the premises and shall include potable water piping, potable water treating or using equipment,		
medical gas and medical vacuum systems, and water heaters: Provided, That no certification shall be required for the		
installation of a plumbing system within the property lines and outside a building.		
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	218.0 Patient Medical Gas. New definition.	
	218.0 Proportioning System for Medical Air USP. New definition.	
	218.0 Proportioning System for Medical Air USP. New definition. 220.0 Registered Design Professional. New definition.	
	218.0 Proportioning System for Medical Air USP, New definition. 220.0 Registered Design Professional. New definition. 221.0 Scavenging. New section.	
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225.0 Water/Wastewater Utility - A public or private entity, including a water purveyor as defined in chapter 246-290	218.0 Proportioning System for Medical Air USP, New definition. 220.0 Registered Design Professional. New definition. 221.0 Scavenging. New section. 221.0 Sterilizer. New definition. 224.0 Valve, Pressure-Relief. New definition. 224.0 Valve, Medinition.	
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WAC, which may treat, deliver, or do both functions to reclaimed (recycled) water, potable water, or both to wholesale or retail customers. 301.2.2 Standards. Standards listed or referred to in this chapter or other chapters cover materials which will conform to the requirements of this code, when used in accordance with the limitations imposed in this or other chapters thereof and their listing. Where a standard covers materials of various grades, weights, quality or configurations, the portion of the listed standard that is applicable shall be used. Design and materials for special configurations or materials not provided for herein shall be permitted to be used by special permission of	218.0 Proportioning System for Medical Air USP. New definition. 220.0 Registered Design Professional. New definition. 221.0 Scavenging. New section. 221.0 Sterilizer. New definition. 224.0 Vent Offset. New definition. 224.0 Vent Offset. New definition. 225.0 Wet Procedure Locations. New definition. 301.0 MATERIALS-STANDARDS AND ALTERNATES GENERAL 301.1 Applicability. New section. 301.4 Applicability. New section. 304.4.4 301.2.1 Marking. Add- Exception: Marking shall not be required on nipples created from cutting and threading of approved pipe.	plumbing system shall have cast, stamped, or indelibly marked on it any markings required by the applicable referenced standards and listing agency, and the manufacturer's mark or name, which shall readily identify the manufacturer to the end user of the product. Where required by the approved standard that applies, the product shall be marked with the weight and quality of the product. Materials and devices used or entering into the construction of plumbing and drainage systems, or parts hereof, shall be marked and identified in a manner satisfactory to the Authority Having Jurisdiction. Such markings shall be done by the manufacturer. Field markings shall not be acceptable. Exception: Marking shall not be required on nipples created from cutting and threading of approved
WAC, which may treat, deliver, or do both functions to reclaimed (recycled) water, potable water, or both to wholesale or retail customers.	218.0 Proportioning System for Medical Air USP. New definition. 220.0 Registered Design Professional. New definition. 221.0 Scavenging. New section. 221.0 Sterilizer. New definition. 224.0 Vent Offset. New definition. 224.0 Vent Offset. New definition. 225.0 Wet Procedure Locations. New definition. 301.0 MATERIALS-STANDARDS AND ALTERNATES GENERAL 301.1 Applicability. New section. 301.4 Applicability. New section. 304.4.4 301.2.1 Marking. Add- Exception: Marking shall not be required on nipples created from cutting and threading of approved pipe.	plumbing system shall have cast, stamped, or indelibly marked on it any markings required by the applicable referenced standards and listing agency, and the manufacturer's mark or name, which shall readily identify the manufacturer to the end user of the product. Where required by the approved standard that applies, the product shall be marked with the weight and quality of the product. Materials and devices used or entering into the construction of plumbing and drainage systems, or parts hereof, shall be marked and identified in a manner satisfactory to the Authority Having Jurisdiction. Such markings shall be done by the manufacturer. Field markings shall not be acceptable. Exception: Marking shall not be required on nipples created from cutting and threading of approved
WAC, which may treat, deliver, or do both functions to reclaimed (recycled) water, potable water, or both to wholesale or retail customers.	218.0 Proportioning System for Medical Air USP. New definition. 220.0 Registered Design Professional. New definition. 221.0 Scavenging. New section. 221.0 Sterilizer. New definition. 224.0 Vent Offset. New definition. 224.0 Vent Offset. New definition. 225.0 Wet Procedure Locations. New definition. 301.0 MATERIALS-STANDARDS AND ALTERNATES GENERAL 301.1 Applicability. New section. 301.4 Applicability. New section. 304.4.4 301.2.1 Marking. Add- Exception: Marking shall not be required on nipples created from cutting and threading of approved pipe.	plumbing system shall have cast, stamped, or indelibly marked on it any markings required by the applicable referenced standards and listing agency, and the manufacturer's mark or name, which shall readily identify the manufacturer to the end user of the product. Where required by the approved standard that applies, the product shall be marked with the weight and quality of the product. Materials and devices used or entering into the construction of plumbing and drainage systems, or parts hereof, shall be marked and identified in a manner satisfactory to the Authority Having Jurisdiction. Such markings shall be done by the manufacturer. Field markings shall not be acceptable. Exception: Marking shall not be required on nipples created from cutting and threading of approved
WAC, which may treat, deliver, or do both functions to reclaimed (recycled) water, potable water, or both to wholesale or retail customers.	218.0 Proportioning System for Medical Air USP, New definition. 220.0 Registered Design Professional. New definition. 221.0 Scaveraging. New section. 224.0 Valve, Pressure-Relief, New definition. 224.0 Valve, Pressure-Relief, New definition. 224.0 Valve, Procedure Locations. New definition. 224.0 Valve, Procedure Locations. New definition. 230.1 Applicability. New section. 301.1 Applicability. New section. 301.4.4 301.2.1 Marking. Add- Exception: Marking shall not be required on nipples created from cutting and threading of approved pipe.	plumbing system shall have cast, stamped, or indelibly marked on it any markings required by the applicable referenced standards and listing agency, and the manufacturer's mark or name, which shall readily identify the manufacturer to the end user of the product. Where required by the approved standard that applies, the product shall be marked with the weight and quality of the product. Materials and devices used or entering into the construction of plumbing and drainage systems, or parts hereof, shall be marked and identified in a manner satisfactory to the Authority Having Jurisdiction. Such markings shall be done by the manufacturer. Field markings shall not be acceptable. Exception: Marking shall not be required on hipples created from cutting and threading of approved
WAC, which may treat, deliver, or do both functions to reclaimed (recycled) water, potable water, or both to wholesale or retail customers. 301.2.2 Standards. Standards listed or referred to in this chapter or other chapters cover materials which will conform to the requirements of this code, when used in accordance with the limitations imposed in this or dher chapters thereof and their listing. Where a standard covers materials down and materials for special conditions or materials nor of the listed standard that is applicable shall be used. Design and materials for special conditions or materials for action that waterials of various grades, weight eauthority having jurisdiction after the authority having jurisdiction for the bused by special permission of	218.0 Proportioning System for Medical Air USP, New definition. 220.0 Registered Design Professional. New definition. 221.0 Scarware, Relief. New definition. 224.0 Valve, Pressure-Relief. New definition. 224.0 Valve, Pressure-Relief. New definition. 224.0 Valve, Procedure Locations. New definition. 225.0 Wet Procedure Locations. New definition. 230.1 0 MATERIALS-STANDARDS AND ALTERNATES GENERAL 301.1 Applicability. New section. 301.1.1 Applicability. New section. 301.1.2.1 Marking. Add- Exception: Marking shall not be required on nipples created from cutting and threading of approved pipe. 301.2.3 Plastic Pipe, Plastic Pipe Fittings, and Components. New section.	plumbing system shall have cast, stamped, or indelibly marked on it any markings required by the applicable referenced standards and listing agency, and the manufacturer's mark or name, which shall readily identify the manufacturer to the end user of the product. Where required by the approved standard that applies, the product shall be marked with the weight and quality of the product. Materials and devices used or entering into the construction of plumbing and drainage systems, or parts hereof, shall be marked and identified in a manner satisfactory to the Authority Having Jurisdiction. Such markings shall be done by the manufacturer. Field markings shall not be acceptable. Exception: Marking shall not be required on nipples created from cutting and threading of approved
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301.3 Alternative Materials and Methods of Construction Equivalency. Nothing in this code is intended to		
prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance,		
effectiveness, durability, and safety over those prescribed by this code. Technical documentation shall be		
submitted to the authority having jurisdiction to demonstrate equivalency. The authority having jurisdiction		
shall have the authority to approve or disapprove the system, method, or device for the intended purpose.		
Where the alternate material, design or method of construction is not approved, the code official shall		
respond in writing, stating the reasons why the alternative was not approved. However, the exercise of this		
discretionary approval by the authority having jurisdiction shall have no effect beyond the jurisdictional		
boundaries of said authority having jurisdiction. An alternate material or method of construction so approved		
shall not be considered as in accordance with the requirements, intent or both of this code for a purpose other		
than that granted by the authority having jurisdiction where the submitted data does not prove equivalency.		
than that granted by the authority having junsdiction where the submitted data does not prove equivalency.		
	301.4.1 Costal High Hazard Zones. New section.	
310.4 Use of Vent and Waste Pipes. Except as hereinafter provided in Sections 908.0 through 911.0 and		
Appendix C, no vent pipe shall be used as a soil or waste pipe, nor shall any soil or waste pipe be used as a		
vent.		
	312.6 Freezing Protection. No water, soil, or waste pipe shall be installed or permitted	
	outside of a building, in attics or crawl spaces, or in an exterior wall unless, where	
	necessary, adequate provision is made to protect such pipe from freezing.	
	,,	
312.6 Freezing Protection. No water, soil, or waste pipe shall be installed or permitted outside of a building,		
in attics or crawl spaces, or in an exterior wall unless, where necessary, adequate provision is made to protect		
in attics or crawl spaces, or in an exterior wall unless, where necessary, adequate provision is made to protec such pipe from freezing. All hot and cold water pipes installed outside the conditioned space shall be		
insulated to a minimum R-3.		
312.7 Fire-Resistant Construction. All pipe penetrating floor/ceiling assemblies and fire-resistance rated	312.13 Exposed ABS Piping. New section.	
walls or partitions shall be protected in accordance with the requirements of the building code.		
	312.14 Exposed PVC Piping. New section.	
	314.1 Trenches. Trenches deeper than the footing of a building or structure and paralleling	
	the same shall not be less than 45 degrees (0.79 rad) from the bottom exterior edge of the	
	footing therefrom, or as approved in accordance with Section 301.0 301.2 of this code.	
	totang and another of as approved in accordance with Section 301.2 of this code.	
	314.4 Excavations. Add- Underground thermoplastic pipe and fittings shall be installed in	
	accordance with this code and Section 314.4.1.	
	accordance with this code and Section 314.4.1. 314.4.1 Installation of Thermoplastic Pipe and Fittings. New section.	
	accordance with this code and Section 314.4.1.	
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	accordance with this code and Section 314.4.1	402.4 Wall-Hung Firtures Wall-hung firtures shall be rigidly supported by metal supporting members
	accordance with this code and Section 314.4.1. 314.4.1 Installation of Thermoplastic Pipe and Fittings. New section. 316.1 General. Exchange copper alloy for brass. 320.0 Rehabilitation of Piping Systems. New section.	402.4 Wall-Hung Fixtures. Wall-hung fixtures shall be rigidly supported by metal supporting members
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402.5 Setting. Fixtures shall be set level and in proper alignment with reference to adjacent walls. No water closet or	accordance with this code and Section 314.4.1. 314.4.1 Installation of Thermoplastic Pipe and Fittings. New section. 316.1 General. Exchange copper alloy for brass. 320.0 Rehabilitation of Piping Systems. New section.	so that no strain is transmitted to the connections. <u>Floor-affixed supports for off the-floor plumbing</u> fixtures for public use shall comply with ASME A112.6.1M. Framing-affixed supports for off-the-floor water closets with concealed tanks shall comply with ASME A112.6.2. Flush tanks and similar
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407.2 Water Consumption. The maximum water use allowed in gallons per minute (gpm) or liters per minute	407.2 Water Consumption. New section.	
(lpm) for any of the following faucets and replacement aerators is the following:		
Lavatory faucets		
2.5 gpm/9.5 lpm		
Kitchen faucets		
2.5 gpm/9.5 lpm Replacement aerators		
2.5 gpm/9.5 lpm		
Public lavatory faucets other than metering		
0.5 gpm/1.9 lpm		
0.5 gpm/n.a ipm		
	107.0.4 Maximum Flour Data Managaritan	
	407.2.1 Maximum Flow Rate. New section.	
	407.2.2 Metering Faucets. New section.	
407.4 Metering Valves. Lavatory faucets located in restrooms intended for use by the general public shall be	407.4 Transient Public Lavatories. New section.	
equipped with a metering valve designed to close by spring or water pressure when left unattended (self-closing).		
EXCEPTIONS: 1. Where designed and installed for use by persons with a disability. 2. Where installed in day care		
centers, for use primarily by children under 6 years of age		
	407.5 Waste Outlet. New section.	
	407.6 Overflow. New section.	407.6 Overflow. Where overflows are provided, they shall be installed in accordance with Section
	100 A Application Deduct	404.1 404.2.
	408.1. Application. Revised.	
408.2 Water Consumption. Showerheads shall have a maximum flow rate of not more than 2.5 gpm at 80 psi (9.5 L/m		
at 552 kPa), in accordance with ASME A112.18.1/CSA B125.1. EXCEPTION: Emergency use showers shall be exempt		
from the maximum water usage rates.		
408.4 Waste Outlet. Showers shall have a waste outlet and fixture tailpiece not less than two (2) inches (50		
mm) in diameter. Fixture tailpieces shall be constructed from the materials specified in Section 701.1 for		
drainage piping. Strainers serving shower drains shall have a waterway at least equivalent to the area of the		
tailpiece. EXCEPTION: In a residential dwelling unit where a 2 inch waste is not readily available and		
approval of the AHJ has been granted, the waste outlet, fixture tailpiece, trap and trap arm may be 1-1/2 inch when an existing tub is being replaced by a shower sized per Section 408.6(2). This exception only applies		
where one shower head rated at 2.5 gpm is installed		
where one shower near rated at 2.5 gpm is instaned		
	408.5 Finished Curb or Threshold. Add- Thesholds shall be of sufficient width to	
ľ	accommodate a minimum 22 inch (559 mm) door. Shower doors shall open so as to	
	maintain not less than a 22 inch (559 mm) unobstructed opening for egress. The immediate	
	adjoining space to showers without thresholds shall be considered a wet location and shall	
	comply with the requirements of the building, residential, and electrical codes.	
	comply with the requirements of the building, residential, and elecated codes.	
408.6 Shower Compartments. Shower compartments, regardless of shape, shall have a minimum finished		
interior of nine hundred (900) square inches (0.58 m2) and shall also be capable of encompassing a thirty		
(30) inch (762 mm) circle. The minimum required area and dimensions shall be measured at a height equal to		
the top of the threshold and at a point tangent to its centerline. The area and dimensions shall be maintained		
to a point of not less than seventy (70) inches (1,778 mm) above the shower drain outlet with no protrusions		
other than the fixture valve or valves, shower head, soap dishes, shelves, and safety grab bars or rails. Fold-		
down seats in accessible shower stalls shall be permitted to protrude into the thirty (30) inch (762 mm) circle.		
EXCEPTIONS:		
1. Showers that are designed to comply with ICC/ANSI A117.1. 2.		
The minimum required area and dimension shall not apply for a shower receptor having overall dimensions of	F	
not less than thirty (30) inches (762 mm) in width and sixty (60) inches (1,524 mm) in length.		
	408.7.1 PVC Sheets. New section.	
	408.7.2 Chlorinated Polyethylene (CPE) Sheets. New section.	
	408.7.3 Sheet Lead. New section.	
	408.7.4 Sheet Copper. New section.	
	409.1. Application. Revised.	
		409.3 Overflow. Where overflows are provided, they shall be installed in accordance with Section
		404.1. 404.2.
	409.6.1 Flexible PVC Hoses and Tubes. New section.	
	410.0 Bidets. Revised.	
	411.1 Application. New section.	
	411.2 Water Consumption. New section.	
411.2 Water Consumption. Water closets shall have a maximum consumption not to exceed 1.6 gallons		
(6.0 L) of water per flush in accordance with ASME A112.19.2/CSA B45.1. No water closet that operates on a		
continuous flow or continuous flush basis shall be permitted. EXCEPTIONS:		
1. Water closets located in day care centers, intended for use by young children may have a maximum water		
use of 3.5 gallons per flush or 13.25 liters per flush. 2. Water closets		
with bed pan washers may have a maximum water use of 3.5 gallons per flush or 13.25 liters per flush.		
3. Blow out bowls, as defined in ANSI/ASME A112.19.2M, Section 5.1.2.3 may have a maximum water use of	f	
3.5 gallons per flush or 13.25 liters per flush.		
	411.2.1 Dual Flush Closets. New section.	
	411.2.2 Flsuhometer Valve Activated Water Closets. New section.	
	411.3 Water Closet Seats. New section.	
	412.1 Application. New section.	
	412.1 Application. New Section.	

412.1 Application. Urinals shall comply with ASME A112.19.2/CSA B45.1, ASME A112.19.19, or CSA B45.5/IAPMO Z124. Urinals shall have an average water consumption not to exceed 1 gallon (3.8 L) of water per flush. No urinal that operates on a continuous flow or continuous flush basis shall be permitted.	493.3.4 112_1Nonwater urinals. Nonwater urinals shall be listed and comply with the applicable standards referenced in Table 1401.1. Nowater urinals shall have a barrier liquid sealant to maintain a trip seal, Nonwater urinals shall permit the uninhibited flow of water through the urinal to a sanitary drainage system. Nonwater urinals shall be cleaned and maintained in accordance with the manufacturer's instructions after installation. Where nonwatery urinals are installed, not less than 1 water supply fixture unit (WSFU) shall be installed upstream on the same drain line to facilitate drain line flow and rising. Where nonwatery urinals are installed they shall have a water distribution inter ough-in to the urinal location to allow for the installation of an approved backflow prevention device in the event of a retrofit.	
	413.1 Flushometer Valves. Add- Flushometer valves and tanks shall comply with ASSE 1037 or CSA B125.3 and shall be installed in accordance with Section 603.5.1.	
	413.3 Flush Tanks. New section.	
	413.1 Backflow Prevention. Add- ASSE 1004.	
	414.1 Application. Revised.	
414.3 Drainage Connection. Domestic dishwashing machines shall discharge indirectly through an air gap fitting in accordance with Section 807.4 into a waste receptor, a wye branch fitting on the taliplece of a kitchen sink, or dishwasher connection of a food waste disposer. Commercial dishwashing machines shall discharge indirectly through an air gap.		
415.2 Drinking Fountain Alternatives. This section is not adopted. See Building Code chapter 29.	415.2 Where Required Drinking Fountain Alternatives. Where food is consumed indoors, water stations shall be permitted to be substituted for drinking fountains. <u>Bottle</u> filling stations shall be permitted to be substituted for drinking fountains up to 50 percent of the requirements for drinking fountains. Drinking fountains shall not be required for an occupant load of 30 or less.	
418.3 Location of Floor Drains. Floor drains shall be installed in the following areas:	418.1 Application. Revised. 418.3 Location of Floor Drains. Add- (4) Boiler rooms.	
 Toile to attor or noor brans, how dams share constant or instant or instanto or instant or instant or instan		
	419.1 Application. Revised.	
422.0Minimum Number of Required Fixtures. For minimum number of plumbing fixtures required, see	421.0 Floor Sinks. New section and subsections.	
422.00Minimum Number of Required Fixtures. For minimum number of plumbing fixtures required, see Building Code chapter 29 and Table 2902.1. Sections 422.1 through 422.5 and Table 422.1 are not adopted.		
	422.2.1 Family or Assisted-Use Toilet Facilities. New section.	
S01.1 Applicability. The regulations of this chapter shall govern the construction, location, and installation of fuel burning and other types of water heaters heating potable water. The minimum capacity for water heaters shall be in accordance with the first hour rating listed in Table 501.1. See the Mechanical Code for combustion air and installation of all vents and their connectors. No water heater shall be hereinafter installed that does not comply with the manufacturer's installation instructions and the type and model of each size thereof approved by the authority having jurisdiction. A list of accepted water heater appliance standards is referenced in Table 501(2). Listed appliances shall be installed in accordance with the manufacturer's installation instructions. Unlisted water heaters shall be permitted in accordance with Section 504.3.2. Click For Chart and Notes	heaters shall be in accordance with the first hour rating listed in 1 able 501.1. Design, construction and workmanship shall be in accordance with accepted engineering practices, manufacturer's instructions, and applicable standards and shall be of such character as to secure the results sought to be obtained by this code. No water heater shall be hereinafter installed that does not comply with the type and model of each size thereof approved by the Authority Having Jurisdiction. A list of accepted gas appliance standards are referenced in Table 1401.1. Listed appliances shall be installed in accordance with the manufacturer's installation instructions. Unlisted water heaters shall be permitted in accordance with Section 504.3.2.	
504.1 Location. Water heater installation in bedrooms and bathrooms shall comply with one of the following: (1) Fuel-burning water heaters may be installed in a closet located in the bedroom or bathroom provided the closet is equipped with a listed, gasketed door assembly and a listed self-closing device. The self-closing door assembly shall meet the requirements of Section 505.1.1. The door assembly shall be installed with a threshold and bottom door seal and shall meet the requirements of Section 505.1.2. All combustion air for such installations shall be obtained from the outdoors in accordance with the International Mechanical Code. The closet shall be for the exclusive use of the water heater. (2) Water heater shall be of the direct vent type.	504.3 Clearance. The clearance requirements for water heaters shall comply with Section. 504.3.1 or Section 504.3.2.	
	505.1 Water Heaters. Water heaters deriving heat from fuels or types of energy other than gas shall be constructed and installed in accordance with approved standards <u>referenced in</u> <u>Table 501.1(2)</u> , <u>Section 505.3</u> , or <u>Section 505.4</u> .	
505.2 Safety Devices. All storage-type water heaters deriving heat from fuels or types of energy other than gas, shall be provided with, in addition to the primary temperature controls, an over-temperature safety protection device constructed, listed, and installed in accordance with nationally recognized applicable standards for such devices and a combination temperature and pressure relief valve.	505.4 Indirect-Fired Water Heaters. Replace reference to Table 1401.1 with reference to	
	Table 501.1(2).	

	TABLE 501.1(2) WATER HEATERS. New Table. 505.4.1 Single-Wall Heat Exchanger. An indirectifired water heater that incorporate a single-wall heat exchanger shall meet the following requirements: (1) Connected to a low-pressure hot water boiler limited to a maximum of 30 pounds-force per square inch gauge (psig) (207 KPa) by an approved safety or relief valve. (2) (1) Heat transfer medium is either potable water or contains fluids recognized as safe by the Food and Drug Administration (FDA) as food grade. having a toxicity rating or Class of 1. (3) (2) Bear a label with the word "Caution," followed by the following statements: (a) The heat-transfer medium shall be water or other nontoxic fluid recognized as safe by the FDA having the toxic rating or Class of 1 as listed in Clinical Toxicology or Commercial Products, 5th edition. (b) The maximum operating pressure of the heat exchanger shall not exceed the maximum operating pressure of the potable water shall have an uppercased height of not less than .120 or an inch (3.048 mm). the vertical spacing between lines of type shall be not less than .046 of an inch (1.168 mm). Lowercase letters shall be compatible with the uppercase letter size specifications.	
506.0 Combustion Air. For issues relating to combustion air, see the Mechanical Code. Sections 506.1 through 506.9 are not adopted.		
Sections 507.6 through 507.9 are not adopted.		
	506.9 Combustion Air Ducts. Revise- (8) The remaining space surrounding a chimney liner, gas vent, special gas vent, or plastic piping installed within a masonry chimney flue, metal or factory-built chimney, shall not be used to supply combustion air unless it is listed and shown in the manufacturer's installation instructions. Exception. Direct-vent appliances designed for installation in a solid-fuel-burning fireplace where installed in accordance with the manufacturer's installation instructions. [NFPA 54: 9.3.8.7]	
507.2 Seismic Provisions. Water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strappings shall be at points within the upper one-third and lower one-third of its vertical dimensions. At the lower point, a distance of not less than four (4) inches (102 mm) shall be maintained from the controls to the strapping.		
	507.4 Drainage Pan. Where a water heater is located in an attic, in or on an attic-ceiling assembly, floor-ceiling assembly, or floor-subfloor assembly where damage results from a leaking water heater, a watertight pan of corrosion-resistant materials shall be installed beneath the water heater with not less than % of an inch (20 mm) diameter drain to an approved location. Such pan shall be not less than 1 ½ inches (38 mm) in depth.	
507.13 Installation in Garages. Appliances in garages and in adjacent spaces that open to the garage and are not part of the living space of a dwelling unit shall be installed so that burners, burner-ignition devices and ignition sources are located not less than eighteen (18) inches above the floor unless listed as flammable vapor ignition resistant.		
507.16 Venting of Flue Gases - Delete entire section.	507.14 Installation in Commercial Garages. <u>Appliances installed in commercial garage</u> shall comply with Section 507.14.1 and Section 507.14.2.	
Sof.16 Venting of Flue Gases - Delete entire section. Sections 507.18 through 507.22 are not adopted.		
509.0 Venting of Equipment. Delete entire section.		
	509.1 Listing. New section.	
	509.3 Design and Construction. A venting system shall be designed and constructed so as to develop a positive flow to convey flue <u>, vent, or both gases</u> and vent gases to the outdoors. [NFPA 54:12.1]	
		509.3.6 Above-ceiling or Nonducted Air Handling System. New section. 509.4.1 Plastic Piping. Plastic piping used for venting appliances listed for use with such venting- materials shall be approved. Where plastic piping is used to vent an appliance, the appliance shall be listed for use with such venting materials and the appliance manufacturer's installation instruction shall identify the specific plastic piping material. [NFPA 54:12.5.2]
	509.5 Masonry, Metal, and Factory-Built Chimneys. Chimneys shall be installed in accordance with Section 509.5.1 through Section 509.3.	
	509.5.1 Decorative Shrouds. New section.	
	509.5.1.2 Listing Requirements. New section. 509.6 Gas Vents. A gas vent passing through a roof shall extend through the entire roof- flashing, roof jack, or roof thimble and be terminated with a listed termination cap. <u>Gas</u> vents shall be installed in accordance with the manufacturer's installation instructions [NFPA 64:12.7.3.2 54:12.7.1(1)]	
	509.6.2.7 Insulation Shiled. New section.	
	509.6.4.2 Multistory Venting System. New section 509.8.5 Vent Terminals.	
	Exception. This shall not apply to vent terminals that are 2 feet (610 mm) or more above	
	or 25 feet (7620 mm) or more below operable openings. [NFPA 54:12.9.6]	
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	509.10.1.2 Residential-Type Appliances. Revise- (1) Vent connectors for listed	
	appliances having draft hoods, appliances having draft hoods, and equipped with listed	
	conversion burners, and Category 1 appliances that are not installed in attics, crawl spaces,	
	or other unconditioned areas shall be one of the following:	
	509.10.7 Length of Vent Connector. The length of the vent connector shall comply with	
	Section_ 509.10.7.1 or Section 509.10.7.2.	
510.0 Sizing of Category I Venting Systems. Delete entire section.	509.13.1 Listing. New section.	
511.0 Direct Vent Equipment. Delete entire section.		
	601.1 Applicability. New section.	
601.1 Applicability. This chapter shall govern the materials, design and installation of water supply systems,		
including backflow prevention devices, assemblies and methods used for backflow prevention.		
603.1 General. Cross-connection control shall be provided in accordance with the provisions of this chapter. Devices		
or assemblies for protection of the public water system must be models approved by the department of health under		
WAC 246-290-490. The authority having jurisdiction shall coordinate with the local water purveyor where applicable in		
all matters concerning cross-connection control within the property lines of the premises.		
No person shall install any water operated equipment or mechanism, or use any water treating chemical or substance,		
if it is found that such equipment, mechanism, chemical or substance may cause pollution or contamination of the		
domestic water supply. Such equipment, mechanism, chemical or substance may cause pollution or contamination or the		
backflow prevention device or assembly.		
603.2 Approval of Devices or Assemblies. Before any device or assembly is installed for the prevention of	603.3 Backflow Prevention Devices, Assemblies, and Methods. <u>Backflow prevention</u>	
backflow, it shall have first been approved by the authority having jurisdiction. Devices or assemblies shall be	devices, assemblies, and methods shall comply with Section 603.3.1 through Section	
tested for conformity with recognized standards or other standards acceptable to the authority having	<u>603.3.9.</u>	
jurisdiction. Backflow prevention devices and assemblies shall comply with Table 603.2, except for specific		
applications and provisions as stated in Section 603.5.1 through 603.5.21. All devices or assemblies		
installed in a potable water supply system for protection against backflow shall be maintained in good working		
condition by the person or persons having control of such devices or assemblies. Such devices or assemblies		
shall be tested in accordance with Section 603.4.2 and WAC 246-290-490. If found to be defective or		
inoperative, the device or assembly shall be replaced or repaired. No device or assembly shall be removed		
from use or relocated or other device or assembly substituted, without the approval of the authority having		
jurisdiction.		
Table 603.2 See Website Amendment	TABLE 603.2 BACKFLOW PREVENTION DEVICES, ASSEMBLIES, AND METHODS.	
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603.4.2 Testing. For devices and assemblies other than those regulated by the Washington department of health in		
conjunction with the local water purveyor for the protection of public water systems, the authority having jurisdiction		
shall ensure that the premise owner or responsible person shall have the backflow prevention assembly tested by a		
Washington state department of health certified backflow assembly tester:		
(1) At the time of installation, repair or relocation; and		
(2) At least on an annual schedule thereafter, unless more frequent testing is required by the authority having		
irrisdiction.		
603.4.9 Prohibited Location. Backflow prevention devices with atmospheric vents or ports shall not be		
installed in pits, underground or in submerged locations. Backflow preventers shall not be located in any area		
containing fumes or aerosols that are toxic, poisonous, infectious, or corrosive.		
603.5.6 Protection from Lawn Sprinklers and Irrigation Systems. Potable water supplies to systems having no pumps		
or connections for pumping equipment, and no chemical injection or provisions for chemical injection, shall be		
protected from backflow by one of the following: (1) Atmospheric		
vacuum breaker (AVB).		
(2) Pressure vacuum breaker backflow prevention assembly (PVB).		
(3) Spill-resistant pressure vacuum breaker (SVB).		
(4) Reduced pressure principle backflow prevention assembly (RP).		
(5) A double check valve backflow prevention assembly (DC) may be allowed when approved by the water purveyor		
and the authority having jurisdiction.		
603.5.10 Steam or Hot Water Boilers. Potable water connections to steam or hot water boilers shall be		
protected by an air gap or a reduced pressure principle backflow preventer.		
603.5.12 Beverage Dispensers. Potable water supply to carbonators shall be protected by a listed reduced		
pressure principle backflow preventer as approved by the authority having jurisdiction for the specific use.		
The backflow preventer shall be located in accordance with Section 603.4.3. The piping downstream of the		
backflow preventer shall not be of copper, copper alloy, or other material that is affected by carbon dioxide.		
603.5.14 Protection from Fire Systems. Except as provided under Sections 603.5.14.1 and 603.5.14.2,		
potable water supplies to fire protection systems that are normally under pressure, including but not limited to		
standpipes and automatic sprinkler systems, except in one or two family or townhouse residential flow-		
through or combination sprinkler systems piped in materials approved for potable water distribution systems,		
shall be protected from back-pressure and back-siphonage by one of the following testable assemblies:		
1. Double check valve backflow prevention assembly (DC).		
2. Double check detector fire protection backflow prevention assembly.		
 Double check detector fire protection backflow prevention assembly. Reduced pressure principle backflow prevention assembly (RP). 		
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608.3 Expansion Tanks, and Combination Temperature and Pressure-Relief Valves. A water system		
provided with a check valve, backflow preventer, or other normally closed device that prevents dissipation of		
building pressure back into the water main, independent of the type of water used, shall be provided with an		
approved, listed, and adequately sized expansion tank or other approved device having a similar function to		
control thermal expansion. Such expansion tank or other approved device shall be installed on the building		
side of the check valve, backflow preventer, or other device and shall be sized and installed in accordance		
with the manufacturer's installation instructions.		
EXCEPTION: Instantaneous hot water systems installed in accordance with the manufacturer's installation		
instructions.		
608.3.1 A water system containing storage water heating equipment shall be provided with an approved,		
listed, adequately sized combination temperature and pressure-relief valve, except for listed nonstorage		
instantaneous heater having an inside diameter of not more than three (3) inches (80 mm). Each such		
approved combination temperature and pressure-relief valve shall be installed on the water-heating device in		
an approved location based on its listing requirements and the manufacturer's installation instructions. Each		
such combination temperature and pressure-relief valve shall be provided with a drain in accordance with		
Section 608.5.		
608.5Discharge Piping. The discharge piping serving a temperature relief valve, pressure relief valve or	608.5 Discharge Piping. New section.	
combination of both shall have no valves, obstructions or means of isolation and be provided with the		
following:(1) Equal to the size of the valve outlet and shall discharge full size to the flood level of the area		
receiving the discharge and pointing down.		
(2) Materials shall be rated at not less than the operating temperature of the system and approved for such		
Use.		
(3) Discharge pipe shall discharge independently by gravity through an air gap into the drainage system or		
outside of the building with the end of the pipe not exceeding 2 feet (610 mm) and not less than 6 inches (152		
mm) above the ground pointing downwards.		
 (4) Discharge in such a manner that does not cause personal injury or structural damage. 		
(5) No part of such discharge pipe shall be trapped or subject to freezing.		
(6) The terminal end of the pipe shall not be threaded.		
(7) Discharge from a relief valve into a water heater pan shall be prohibited.		
EXCEPTION:		
Where no drainage was provided, replacement water heating equipment shall only be required to provide a		
drain pointing downward from the relief valve to extend between two (2) feet (610 mm) and six (6) inches		
(152 mm) from the floor. No additional floor drain need be provided.		
		609.4 Testing.
		Exception: PEX, PP or PE-RT tube shall be permitted to be tested with air where permitted by the
		manufacturer's instructions.
609.9 Disinfection of Potable Water System. New or repaired potable water systems shall be disinfected		
prior to use where required by the authority having jurisdiction. The method to be followed shall be that		
prior to use where required by the authority having jurisdiction. The method to be followed shall be that prescribed by the health authority or, in case no method is prescribed by it, the following: (1) The pipe system		
prior to use where required by the <i>authority having jurisdiction</i> . The method to be followed shall be that prescribed by the health authority or, in case no method is prescribed by it, the following; (1) The pipe system shall be flushed with clean, potable water until potable water appears at the points of outlet. (2) The system or		
prior to use where required by the <i>authority having jurisdiction</i> . The method to be followed <i>shall</i> be that prescribed by the health authority or, in case no method is prescribed by it, the following: (1) The pipe system shall be flushed with clean, potable water until potable water appears at the points of outlet. (2) The system or parts thereof shall be filled with a water-chlorine solution containing not less than 50 parts per million of		
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	612.4 Sprinkler Piping System. New section and subsections. 612.5 Sprinkler Piping Design. New section and subsections.	
	TABLE 612.3.6 MINIMUM SEPARATION FROM OBSTRUCTION. New Table.	
	TABLE 612.5.3.2(1) WATER SERVICE PRESSURE LOSS. New Table.	
	TABLE 612.5.3.2(2) MINIMUM WATER METER PRESSURE LOSS. New Table.	
	612.6 Instructions and Signs. New section and subsections. 612.7 Inspection and Testing. New section and subsections.	
	TABLE 612.5.3.2(3) ELEVATION LOSS. New Table.	
	TABLE 612.5.3.2(4) ALLOWABLE PIPE LENGTH	
	FOR ¾ INCH TYPE M COPPER WATER TUBING New Table.	
	TABLE 612.5.3.2(5) ALLOWABLE PIPE LENGTH	
	FOR 1 INCH TYPE M COPPER WATER TUBING New Table.	
	TABLE 612.5.3.2(6) ALLOWABLE PIPE LENGTH FOR 3/4 INCH IPS CPVC PIPE. New Table.	
	TABLE 612.5.3.2(7) ALLOWABLE PIPE LENGTH FOR 1 INCH IPS CPVC PIPE. New	
	Table.	
	TABLE 612.5.3.2(8) ALLOWABLE PIPE LENGTH FOR ½ INCH PEX TUBING. New Table.	
	TABLE 612.5.3.2(9) ALLOWABLE PIPE LENGTH FOR 1 INCH PEX TUBING. New	
	Table.	
	CHAPTER 7 SANITARY DRAINAGE	CHAPTER 7 SANITARY DRAINAGE
	701.1 Applicability. New section.	
701.2 Drainage Piping. Materials for drainage piping shall be in accordance with one of the referenced		701.2 Drainage Piping. Revise- (2) ABS and PVC DWV piping installations shall be installed in
standards in Table 701.1 except that:		accordance with applicable standards referenced in Table 701.2 and Chapter 14 "Firestop Protection."
 No galvanized wrought-iron or galvanized steel pipe shall be used underground and shall be kept not less than 6 inches (152 mm) above ground. 		Except for individual single-family dwelling units, materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 50, where
2. ABS and PVC DWV piping installations shall be installed in accordance with applicable standards in Table		a flame-spread index of not more than 25 and a smoke-developed index of not more than 50, where tested in accordance with ASTM E84 or UL 723, sample size, both for width and length. Plastic pipe
1701.1. Except for individual single family dwelling units, materials exposed within ducts or plenums shall		shall not be tested filled with water.
have a maximum flame-spread index of 25 and a maximum smoke developed index of 50, when tested in		
accordance with ASTM E-84 and UL 723.		
3. No vitrified clay pipe or fittings shall be used above ground or where pressurized by a pump or ejector. They shall be kept not less than 12 inches (305 mm) below ground.		
4. Copper tube for drainage and vent piping shall have a weight of not less than that of copper drainage tube		
type DWV.		
5. Stainless steel 304 pipe and fittings shall not be installed underground and shall be kept not less than 6		
inches (152 mm) above ground. 6. Cast-iron soil pipe and fittings shall be listed and tested in accordance with standards referenced in Table		
1701.1. Such pipe and fittings shall be marked with country of origin and identification of the original		
manufacturer in addition to markings required by referenced standards.		
	701.4 Continuous Wastes. New section.	
Table 703.2 maximum unit loading and maximum length of drainage and vent piping		
Notes:		
1. Excluding trap arm.		
2. Except sinks, urinals, and dishwashers - Exceeding 1 fixture unit.		
 Except six-unit traps or water closets. Only four water closets or six-unit traps allowed on a vertical pipe or stack; and not to exceed three water 		
4. Only four water closets or six-unit traps allowed on a vertical pipe or stack; and not to exceed three water closets or six-unit traps on a horizontal branch or drain.		
EXCEPTION:		
In a single family dwelling addition or alteration where a 4 inch horizontal waste is not readily available four		
water closets not to exceed 1.6 gpf each may be allowed on a 3 inch horizontal waste when approved by the AH.I.		
5. Based on one-fourth inch per foot (20.8 mm/m) slope. For one-eighths of an inch per foot (10.4 mm/m)		
slope, multiply horizontal fixture units by a factor of 0.8.		
6. The diameter of an individual vent shall be not less than one and one-fourth inches (32 mm) nor less than		
one-half the diameter of the drain to which it is connected. Fixture unit load values for drainage and vent piping shall be computed from Table 702.1 and Table 702.2(b). Not to exceed one-third of the total permitted		
length of a vent shall be permitted to be installed in a horizontal position. Where vents are increased one pipe		
size for their entire length, the maximum length limitations specified in this table do not apply. This table is in		
accordance with the requirements of Section 901.2.		
704.3 Commercial Sinks. Except where specifically required to be connected indirectly to the drainage		
system, or when first approved by the authority having jurisdiction, all plumbing fixtures, drains, appurtenances, and appliances shall be directly connected to the drainage system of the building or premises.		
apportenences, and apprances shan be directly connected to the drainage system of the building of prefilises.		
	705.10 705.8 Special Joints. Special joints shall comply with Section 705.8.1 through	
	705.8.4.	

	705.11 705.9 Joints Between Various Materials. Add- Mechanical couplings used to join	
	different materials shall be in accordance with ASTM C1173 for belowground use, ASTM	
	C160 for aboveground use, or ASTM C1461 for aboveground and belowground use.	
707.4 Location. Each horizontal drainage pipe shall be provided with a cleanout at its upper terminal, and	707.4 Location. Add- A cleanout shall be installed above the fixture connection fitting.	
each run of piping, that is more than 100 feet (30,480 mm) in total developed length, shall be provided with a	serving each urinal, regardless of the location of the urinal in the building.	
cleanout for each 100 feet (30,480 mm), or fraction thereof, in length of such piping. An additional cleanout	serving each unnal, regardless of the location of the unnal in the building.	
shall be provided in a drainage line for each aggregate horizontal change of direction exceeding 135 degrees		
(2.36 rad).		
EXCEPTIONS:		
1. Cleanouts shall be permitted to be omitted on a horizontal drain line less than 5 feet (1,524 mm) in length		
unless such line is serving sinks or urinals.		
-		
2. Cleanouts shall be permitted to be omitted on a horizontal drainage pipe installed on a slope of 72 degrees		
(1.26 rad) or less from the vertical angle (one-fifth bend).		
3. Except for the building drain, its horizontal branches, and urinals, a cleanout shall not be required on a pipe		
or piping that is above the floor level of the lowest floor of the building.		
4. An approved type of two-way cleanout fitting, installed inside the building wall near the connection between		
the building drain and the building sewer or installed outside of a building at the lower end of a building drain		
and extended to grade, shall be permitted to be substituted for an upper terminal cleanout.		
707.9 Clearance. Each cleanout in piping 2 inches (50 mm) or less in size shall be so installed that there is a		
clearance of not less than 12 inches (457 mm) in front of the cleanout. Cleanouts in piping exceeding 2		
inches (50 mm) shall have a clearance of not less than 18 inches (610 mm) in front of the cleanout.		
Cleanouts in under-floor piping shall be extended to or above the finished floor or shall be extended outside		
the building where there is less than 18 inches (457 mm) vertical overall, allowing for obstructions such as		
ducts, beams, and piping, and 30 inches of (762 mm) horizontal clearance from the means of access to such		
cleanout. No under-floor cleanout shall be located exceeding 20 feet (1,524 mm) from an access door, trap		
door, or crawl hole.		
CHAPTER 7, PART II—BUILDING SEWERS		
Part II Building Sewers. Delete all of Part II (Sections 713 through 723, and Tables 717.1 and 721.1).		
	710.13 Macerating Toilet Systems and Pumped Waste Systems. Fixtures shall be	
	permitted to discharge to macerating toilet system or pumped waste system shall be	
	permitted Listed macerating toilet systems shall be permitted as an alternate to a sewage	
	pump system where approved by the	
	Authority Having Jurisdiction. Such systems shall comply with ASME A112.3.4/CSA B45.9	
	and shall be installed in accordance with the manufacturer's installation instructions.	
	CHAPTER 8 INDIRECT WASTES	CHAPTER 8 INDIRECT WASTES
	801.1 Applicability. New section.	
	803.1 Materials. New section.	
	803.2 Copper and Copper Alloys. New section.	
	811.2 Waste and Vent Pipes. Add- PP pipe and fittings shall comply with ASTM F1673 or	
	CSA	
	B181.3. Chemical-resistant glass pipe and fittings shall comply with ASTM C1053. High-	
	silicon iron pipe and fittings shall comply with ASTM A861.	
	814.1.1 Condensate Pumps. New section.	
	814.2 Condensate Control. New section.	
	814.2.1 Protection of Appurtenances. New section.	
	814.3.1 Cleanouts. New section.	
	814.4 Appliance Condensate Drains. New section.	
	814.5 Point of Discharge. New section.	
	814.6 Condensate Waste From Air-Conditioning Coils. New section.	
	814.7 Plastic Fittings. New section.	
903.1 Applicable Standards. Vent pipe and fittings shall comply with the applicable standards referenced in		903.1 Applicable Standards. Revise- (2) ABS and PVC DWV piping installations shall be in
Table 701.1, except that:		accordance with Chapter 14 "Firestop Protection." Except for individual single-family dwelling units,
		materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a
1. No galvanized steel or 304 stainless steel pipe shall be installed underground and shall be not less than 6		smoke-developed index of not more than 50 where tested in accordance with ASTM E84 or UL 723.
inches (152 mm) above ground.		These tests shall comply with all requirements of the standards to include the sample size, both for
		width and length. Plastic pipe shall not be tested filled with water.
2. ABS and PVC DWV piping installations shall be installed in accordance with applicable standards in Table		
1401.1. Except for individual single family dwelling units, materials exposed within ducts or plenums shall		
have a maximum flame-spread index of 25 and a maximum smoke developed index of 50, when tested in		
accordance with ASTM E-84 and UL 723.		
	908.2.3 Trap Arm. New section.	

908.2.4 Water Closet. This section is not adopted.	908.2.4 Water Closet. New section.	
	908.2.5 Additional Fixtures. New section. CHAPTER 10 TRAPS AND INTERCEPTS	
	1001.1 Applicability. New section.	
	1013.1.3 Food Waste Disposal Units and	
	Dishwashers. Add-	
	Exception: Food waste disposers shall be permitted to discharge to grease interceptors	
	that are designed to receive the discharge of food waste.	
	that are designed to receive the discharge of 1000 waste.	
	1101.1 Applicability. New section.	
1101.4 Material Uses. Pipe, tube, and fittings conveying rainwater shall be of such materials and design as to perform their intended function to the satisfaction of the authority having jurisdiction. Conductors within a vent or shaft shall be of cast iron, galvanized steel, wrought iron, cooper, copper alloy, lead, Scheduled 40 ASB DWV, Scheduled 40 PVC DWV, stainless steel 304 or 316L (stainless steel 304 pipe and fittings shall not be installed underground and shall be kept not less than six (6) inches (152 mm) aboveground), or other approved materials, and changes in direction shall conform to the requirements of Section 706.0. ABS and PVC DWV piping installations shall be installed in accordance with IS 5 and IS 9. Except for individual single- family dwelling units, materials exposed within ducts or plenums shall have a maximum flame-spread index of 25 and a maximum smoke-developed index of 50, when tested in accordance with ASTM E-84 and UL		1101.4 Material Uses. Add- These tests shall comply with all requirements of the standards to include the sample size, both for width and length. Plastic pipe shall not be tested filled with water.
723.		
	1101.4.1 Copper and Copper Alloys. New section.	
	4402.4 1101.4.2 Conductors. Renumbered; Add- <u>Conductors installed aboveground level</u> shall be of samless copper water tube, Type K. L. or Ni. Schedule 40 copper pipe or Schedule 40 copper alloy pipe. Type DWV copper drainage tube; service weight cast-iron soil pipe or hub-less cast-iron soil pipe, standard weight galvanized steel pipe; stainless steel 304 or 316. [stainless steel 304 pipe and fittings shall not be installed underground and shall be kept not less than 6 inches (152 mm) aboveground]; or Schedule 40 ABS or Schedule 40 PVC plastic pipe.	
1101.13 Cleanouts. Cleanouts for building storm drains shall comply with the requirements of this section.		
1101.13.1Locations. Rain leaders and conductors connected to a building storm sewer shall have a cleanout installed at the base of the outside leader or outside conductor before it connects to the horizontal drain. Cleanouts shall be placed inside the building near the connection between the building drain and the building sewer or installed outside the building at the lower end of the building drain and extended to grade.		
1101.13.2Cleaning. Each cleanout shall be installed so that it opens to allow cleaning in the direction of flow of the soil or waste or at right angles thereto, and except in the case of wye branch and end-of-line cleanouts, shall be installed vertically above the flow line of the pipe.		
1101.13.3 Access. Cleanouts installed under concrete or asphalt paving shall be made accessible by yard boxes, or extending flush with paving with approved materials and be adequately protected.		
1101.13.4 Manholes. Approved manholes may be installed in lieu of cleanouts when first approved by the authority having jurisdiction. The maximum distance between manholes shall not exceed three hundred (300) feet (91.4 m).		
The inlet and outlet connections shall be made by the use of a flexible compression joint no closer than twelve (12) inches (305 mm) to, and not farther than three (3) feet (914 mm) from the manhole. No flexible compression joints shall be embedded in the manhole base.		
	4101.13 <u>1101.14</u> Rainwater Sumps. Add- Pumps rated a 1 600 V or less shall comply with UL778 and shall be installed in accordance with the manufacturer's installation instructions.	
	1105.0 1102.0 Roof Drains.	
	1102.1 Applications. New section.	
	1102.2 Dome Strainers Required. New section.	
1105.0 Controlled-Flow Roof Drainage. This section is not adopted.		
		1106.0 Engineered Storm Drainage System. New section and subsections.
	1301.1 Where Required Applicability. New section.	
1303.8 Water Mains for Hospitals. Hospitals shall be provided with not less than two approved potable water mains that are installed in such a manner as to prevent the interruption of water service.		
	1309-5 1301.2 Where Not Applicable. Renumbered.	
	Revise. (2) Gas central supply and Bulk supply systems, except as addressed in this- chapter. Add. (8) Breathing air replenishment (BAR) stations. (9) Portable compressed gas systems. (10) Medical support gas systems. (11) Gas-powered device supply systems. (12) Scavenging systems.	
		1302.1 Building System Risk Categories.
		1302.1.1 Risk Assessment. New section.
		1302.1.2 Document Risk Assessment. New section.

	4309.7 1301.6 Existing Systems. The altered, renovated, or modernized portion of an existing system or individual component shall be required to meet the installation and equipment stated in this chapter. Where the alteration, renovation, or modernization adversely impacts existing performance requirements of a system or component, additional upgrading shall be required. An existing system that is not in strict compliance with the provisions of this code shall be permitted to be continued in use as	
	long as the Authority Having Jurisdiction has determined that the use does not constitute a distinct hazard to life. [NFPA 99:5.1.1.4]	
	1302.0 Design Requirements. New section.	
	1302.1 Building System Categories New section.	
	1302.2 Patient Care Rooms. New section.	
	1302.3 Anesthetizing Locations. New section.	
	1302.4 Wet Procedure Locations. New section.	
	1303.0 Protrusions from Walls Health Care Facilities.	
	1303.4 Sterilizers and Bedpan Steamers. New section.	
	1303.7 Clinical Sinks. New section.	
	1303.7.1 Drainage Connection. New section.	
	1303.8 Water Supply for Hospitals. New section.	
	1310.4 1304.3 Supply Source. Medical gas and medical vacuum systems shall be supplied from a <u>central supply</u> source consisting of not less than two units- primary and secondary, <u>consisting of one of the following</u> :	
	compressors. (3) Not less than two vacuum pumps. medical air USP. Exception: A single Category 3 medical gas source system shall not supply more than two adjoining single treatment facilities. [NFPA 99:5.3.1.1.4] e.g., a monifold conscitting of two parks with parks.	
1305.3Minimum Station Outlets/Inlets. Station outlets and inlets for medical gas and medical vacuum	manifold consisting of two banks with not less than two cylinders in each bank; not less than two air compressors; or nor less than two vacuum pumps. However, two supply pipelines are not required.	
systems for facilities licensed or certified by Washington state department of health (DOH) or Washington state department of social and health services (DSHS) shall be provided as listed in chapters 246-320 and 246-330 WAC as required by the applicable licensing rules as applied by DOH construction review services. All other medical gas and medical vacuum systems shall be provided as listed in Table 1305.3.		
	1306.0 Qualifications of Installers. New section.	
	1306.1 General. New section.	
	1315.2 1308.2 Cleaning. Add- Where tube ends, fittings, or other components become contaminated	
	before installation they shall be recleaned in accordance with Section 1311.0.	
	1308.5 Tubes for Medical Gas Systems. Sections combined and revised.	
	1308.5 Tubes for Medical Vacuum Systems. New section.	
	1309.1 General. New section. 1309.2 Changes in Direction. New section.	
	1309.2.1 Medical Vacuum Systems. New section.	
	4348.2 1309.3 Brazed Joints. Brazed joints shall be made using a brazing alloy that exhibits a melting temperature in excess of 1000 ⁰ F (538 ^o C) to retain the integrity of the piping system in the event of a fire exposure. [NFPA 99:5.1.10.5.1.1 99:5.1.10.4.1.3. 5.3.6.4.2] Fittings for tubes, turns, offsets, and other changes in direction shall be made	
	with wrought-copper capillary fittings in accordance with ASME B16.22 or brazed fittings in accordance with ASME B16.50 [NFPA 99:5.1.10.4.1.1, 5.3.6.2.3] Cast-copper alloy fittings shall not be permitted. [NFPA 99:5.1.10.4.1.2, 5.3.6.2.4] Brazed tube joints shall be the socket type [NFPA 99:5.1.10.5.1.2] Filler metals shall bond with and be metallurgically	
	compatible with the base metals being joined. {NFPA 99:5.1.10.1.3] Filler metals shall comply with AWS A5.8. [NFPA 99:5.1.10.5.1.3] Copper-to-copper joints shall be brazed using a copper-phosphate or copper-phosphorus-silver brazing filler metal (BCUP series) without flux. [NFPA 99:5.1.10.5.4.1] Flux shall only be used where brazing dissimilar	
	metals, such as copper and bronze or brass, using a silver (BAg series) brazing filler material. [NFPA 99:5.1.10.5.4.1] Joints to be brazed in place shall be accessible for necessary preparation, assembly, heating, filler application, cooling, cleaning, and inspection. [NFPA 99:5.1.10.5.1.7].	
	1309.3.1 Tube Joints. New section.	
	1309.3.2 Filler Metals. New section.	
	1309.3.3 Copper-to-copper Joints. New section.	
	1309.3.4 Accessible. New section.	
	1309.3.1 Tube Joints. New section.	
	1318.3 1309.3.5 Tube Ends. Tube cutters shall be cut square using a sharp tubing cutter to avoid deforming the tube. [NFPA 99:5.1.10.5.2.1, <u>5.3.6.5.1]</u>	
	1309.3.5.1 Cutting Wheel. The cutting wheels on tubing cutters shall be free from grease, oil, or other lubricant not approved for oxygen service. [NFPA 99:5.1.10.4.42.2, 5.3.6.3.2]	

1309.3.5.2 Cut Ends. The cut ends of the tube shall be rolled smooth or deburred with a	
sharp clean deburring tool, taking care to prevent chips from entering the tube. [NFPA	
<u>99:5.1.10.4.2.3, 5.3.6.5.3]</u>	
1318.4 1309.3.6 Cleaning Procedures. Revised.	
1309.3.6.1 Exterior Surfaces. New section.	
1309.3.6.2 Interior Surfaces. New section.	
1309.3.6.3 Abrasive Pads. New section.	
1309.3.6.4 Prohibited. New section.	
1309.3.6.5 Wiped. New section.	
1309.3.6.6 Examination. New section.	
1309.3.6.7 On-Site Recleaning. New section.	
1309.3.6.8 Contamination. New section.	
1309.3.6.9 Timeframe for Brazing. New section.	
1318.5 1309.3.7 Flux. Renamed, renumbered, and revised.	
1309.3.7.1 Surface Cleaning. New section.	
1309.3.7.2 Flux. New section.	
1309.3.7.3 Short Sections of Copper. New section.	
1309.3.7.4 Flux-Coated Brazing Rods. New section.	
1318.7 1309.3.8 Nitrogen Purge	
1309.3.8.1 Source. New section.	
1309.3.8.2 Flow Rate Control. New section.	
1309.3.8.3 Oxygen Analyzer. New section.	
1309.3.8.4 During Installation. New section.	
1309.3.8.5 Discharge Opening. New section.	
1309.3.8.6 Temperature of Joint. New section.	
1309.3.8.7 Opening to be Sealed. New section.	
1309.3.8.8 Final Brazed Connection. New section.	
1309.3.8.9 Final Tie-In Test. New section.	
1309.3.8.10 Autogenous Orbital Welding Process. New section.	
1309.3.9 Assembling and Heating Brazed Joints. Renumbered and revised.	
1309.3.9.1 Heating of Joints. New section.	
1318.8 1309.3.10 Prohibited Joints Inspection of Brazed Joints. Renumbered,	
renamed, and revised.	
1309.3.10.1 Where Flux is Used. New section.	
1309.3.10.2 Visually Inspected. New section.	
1309.3.10.3 Prohibited Brazed Joints. New section.	
1309.3.10.4 Defective Brazed Joints. New section.	
1315.6 1309.4 Special Fittings. Renumbered and revised.	
1309.4.1 Memory Metal Fittings. New section.	
1309.4.2 Axially Swaged Fittings. New section.	
1309.4.3 Threaded Fittings. New section.	
1309.4.4 Dielectric Fittings. New section.	
1309.4.4.5 Other Types of Fittings, New section.	
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shall not be longer than necessary and shall not penetrate or be concealed in walls, floors,	
ceilings, or partitions. Flexible connectors, metallic or nonmetallic, shall have a minimum	
burst or pressure, with a gauge pressure of 1000 psi (6895 kPa). [NFPA 99:5.1.10.10.7	
99:5.1.10.11.6.1, 5.3.6.16.1] Hose and flexible connectors for Category 3 medical gas shall be gas specific and not be permitted to conduct any other gas, gas mixture, or liquid.	
[NFPA 99:5.3.6.16.1] Exception: Flexible connectors, used in Category 3 systems, of other	
than all metal construction that connect manifolds to the gas distribution system shall be	
not more than 5 feet (1524 mm) in length. [NFPA 99:5.3.6.2.1.9]	
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1310.10.1 Labeling and Identification. New section. 1310.11.2 Location of Pipe Labeling. New section. 1310.11.2 Cleaning Procedures. Renumbered, renamed, and revised. 1312.1 General. Add. Exception: Shudoff valves. Renumbered. 1312.1.3 Emergency Shutoff Valves. New Section. 1312.1.3 Emergency Shutoff Valves. New Section. 1312.1.3 Emergency Shutoff Valves. New Section. 1312.1.4 Labeled. New Section. 1312.1.4 Labeled. New Section. 1312.1.4 Labeled. New Section. 1312.1.4 Labeled. New Section. 1312.1.5 Emergency Valves. Renumbered and revised.	the following conditions: Revise- (3) They are constructed of materials approved suitable for the service. Add- (6) They permit in-line serviceability. (7) They are cleaned for oxygen service by the
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1310.11.2 bocition and Identification. New section	the following conditions: Revise- (3) They are constructed of materials approved suitable for the service. Add- (6) They permit in-line serviceability. (7) They are cleaned for oxygen service by the
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1310.11.2 bocition and Identification. New section 1310.11.2 Location of Pipe Labeling. New section 1318.4 1311.1 Cleaning Procedures. Renumbered, renamed, and revised. 1318.4 1311.1 Cleaning Procedures. Renumbered, renamed, and revised. 1312.13 General. Add. Exception: Shutoff Valves for medical vacuum service shall be permitted to be ball or. butterfly type. [NFPA 99:5.1.4.3.2] 1312.1.3 Emergency Shutoff Valves. New Section 1312.1.3.1 Remote Activated. New Section 1312.4.1 Location. New section 1312.5 Service Valves. Renumbered and revised. 1312.5.1 Branch Piping. Add- Service valves shall be placed in the branch piping prior to a zone valve box assembly on that branch. [NFPA 99:5.1.4.7.2]. 1312.5.2 Location. New section 1312.5.2 Location. New s	the following conditions: Revise- (3) They are constructed of materials approved suitable for the service. Add- (6) They permit in-line serviceability. (7) They are cleaned for oxygen service by the
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1310.11.2 bocation of Pipe Labeling. New section 1310.11.2 Location of Pipe Labeling. New section 1318.4 1311.1 Cleaning Procedures. Renumbered, renamed, and revised. 1318.4 1311.1 Cleaning Procedures. Renumbered. renamed, and revised. 1312.1 General. Add: Exception: Shutoff Valves. Renumbered. 1312.1 General. Add: Exception: Shutoff valves for medical vacuum service shall be permitted to be ball or. butterfly type. [NFPA 99:5.1.4.3.2] 1312.1.3 Emergency Shutoff Valves. New Section 1312.1.3.1 Remote Activated. New Section 1312.1.4 Labeled. New Section 1312.4 Labeled. New Section 1312.4 Labeled. New Section 1312.4 Labeled. New Section 1312.5 Service Valves. Renumbered and revised. 1312.5 Location. New section 1312.5 Location. New section 1312.5 Location. New section 1312.5.2 Location. New section 1312.5.2 Location. New section 1312.5.2 Location. New section 1312.6.3 Cone Valves. Add (3) The zone valve shall not be located in the same room with the station outlets or inlets that it controls. [NFPA 99:5.1.4.7.2] 1312.6.3 Location. New section 1312.6.3 Location. New section 1312.6.5 An Regment. Zone valves shall be	the following conditions: Revise- (3) They are constructed of materials approved suitable for the service. Add- (6) They permit in-line serviceability. (7) They are cleaned for oxygen service by the
1310.11.2 bocation of Pipe Labeling. New section 1310.11.2 Location of Pipe Labeling. New section 1318.4 1311.1 Cleaning Procedures. Renumbered, renamed, and revised. 1318.4 1311.1 Cleaning Procedures. Renumbered. renamed, and revised. 1312.1 General. Add: Exception: Shutoff Valves. Renumbered. 1312.1 General. Add: Exception: Shutoff valves for medical vacuum service shall be permitted to be ball or. butterfly type. [NFPA 99:5.1.4.3.2] 1312.1.3 Emergency Shutoff Valves. New Section 1312.1.3.1 Remote Activated. New Section 1312.1.4 Labeled. New Section 1312.4 Labeled. New Section 1312.4 Labeled. New Section 1312.4 Labeled. New Section 1312.5 Service Valves. Renumbered and revised. 1312.5 Location. New section 1312.5 Location. New section 1312.5 Location. New section 1312.5.2 Location. New section 1312.5.2 Location. New section 1312.5.2 Location. New section 1312.6.3 Cone Valves. Add (3) The zone valve shall not be located in the same room with the station outlets or inlets that it controls. [NFPA 99:5.1.4.7.2] 1312.6.3 Location. New section 1312.6.3 Location. New section 1312.6.5 An Regment. Zone valves shall be	the following conditions: Revise- (3) They are constructed of materials approved suitable for the service. Add- (6) They permit in-line serviceability. (7) They are cleaned for oxygen service by the
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1310.11.2 bocation of Pipe Labeling. New section 1310.11.2 Location of Pipe Labeling. New section 1318.4 1311.1 Cleaning Procedures. Renumbered, renamed, and revised. 1318.4 1311.1 Cleaning Procedures. Renumbered. renamed, and revised. 1312.1 General. Add: Exception: Shutoff Valves. Renumbered. 1312.1 General. Add: Exception: Shutoff valves for medical vacuum service shall be permitted to be ball or. butterfly type. [NFPA 99:5.1.4.3.2] 1312.1.3 Emergency Shutoff Valves. New Section 1312.1.3.1 Remote Activated. New Section 1312.1.4 Labeled. New Section 1312.4 Labeled. New Section 1312.4 Labeled. New Section 1312.4 Labeled. New Section 1312.5 Service Valves. Renumbered and revised. 1312.5 Location. New section 1312.5 Location. New section 1312.5 Location. New section 1312.5.2 Location. New section 1312.5.2 Location. New section 1312.5.2 Location. New section 1312.5.2 Location. New section 1312.6.3 Indicators. New section 1312.6.5 Arrangement. Zone valves shall be so arranged that shutting off the supply of medical gas or vacuum to one zone will not affect the supply of medical gas or vacuum to another zone room	the following conditions: Revise- (3) They are constructed of materials approved suitable for the service. Add- (6) They permit in-line serviceability. (7) They are cleaned for oxygen service by the

	MAIN LINE VALVE FOR THE (GAS/VACUUM NAME)
1313.0 Central Supply Systems. Section and subsections completely revised.	
1314.2.1 Required Components. New section.	
1314.1.2.1 Category 1 and 2 Systems. New section.	
1314.1.2.2 Category 3 Systems. New section.	
1324.3 1314.1.3 Air Sources. Renumbered and revised.	
1314.1.3.1 Category 1 and 2 Systems. New section.	
1314.1.3.2 Category 3 Systems. New section.	
1324.4 1314.1.4 Air Intakes. Renumbered and revised.	
1314.1.4.1 Location. New section.	
1314.1.4.2 Separate Compressors. New section.	
1314.1.4.3 Screening. New section.	
1325.3-1315.5 Vacuum Source Exhaust. Renumbered, renamed, and revised.	
1315.5.1 Location. New section.	
1315.5.2 Screening. New section.	
	1315.2.1 Category 2 Medical-Surgical
	Vacuum. Category 2 systems shall comply with Section 1315.0, except as follows: (1) Medical-
	surgical vacuum systems shall be permitted to be simplex. (2) The facility shall develop their
	emergency plan to deal with the loss of medical-surgical vacuum. [NFPA 99:5.2.3.6]
	omorgonoy plan to doar with the loss of medical-surgical vacuum. [NFT A 35.0.2.3.0]
	A245.0.0 Cotomore 2 Medical Currical Version Cotomore 2 medical survival
	1315.2.2 Category 3 Medical-Surgical Vacuum. Category 3 medical-surgical vacuum systems if used shall comply with Section 1315.2. [NFPA 99:5.3.3.9]
	snan compty with Section 1313.2. [INFPA 99:3.3.3.9]
1315.5.3 Dips and Loops. New section.	
1320.2.3 1316.2.2 Design. Pressure-relief valves shall be of brass, bronze or stainless	
steel or bronze and specifically designed for the gas service involved. [NFPA 99:5.3.6.21.6]	
1321.1 1317.1 General. Station outlets and inlets shall be installed in strict accordance with	
the manufacturer's installation instructions. Each station outlet and inlet for medical gases	
and medical vacuum shall be gas-specific. [NFPA 99: 5.1.5.1, 5.3.6.17.1]	
1317.2 Required Valves. New section.	
1317.2.1 Secondary Valves. New section.	
1323.1 1318.1 General Category 1 and 2	
Systems. Revise- (5) Visual and audible indication that the wiring communication to an	
alarm initiating device is disconnected. (9) Power for master, and area alarms, sensors and	
switches from the life safety branch of the emergency electrical system as described in	
NFPA 99 Chapter 4, Electrical System. (a) Conduit. (b) Free air. (11) Wiring from switches	
or sensors that is supervised or protected as required by Section 517.30(C)(3) of NFPA 70	
for emergency system circuits. Where used for communications, wiring from switches or	
sensors that is supervised or protected as required by NFPA 70 for life safety and critical	
branch circuits in which protection is one of the following types: (c) Wire. (d) Cable tray.	
(e) Raceways. Add- (15) Alarm switches, sensors, or both installed so as to be removable.	
[NFPA 99:5.1.9.1]	
1318.2 Category 3 Systems. New section.	
1326 2 1 1319 2 Breached Systems Renumbered and revised	
1326.2.1_1319.2 Breached Systems. Renumbered and revised	
1319.4 Initial Piping Blow Down. New section.	
1319.4 Initial Piping Blow Down. New section. 1 326.7- 1319.5 Initial Pressure Test- Piped Gas -	
1319.4 Initial Piping Blow Down. New section.	
1319.4 Initial Piping Blow Down. New section <u>.</u> 1326-7_1319.5 Initial Pressure Test- Piped Cas. Systems- Medical Gas and Medical Vacuum Systems. Renumbered and revised	
1319.4 Initial Piping Blow Down. New section. 1326.7-1319.5 Initial Pressure Test-Piped Gas Systems-Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section.	
1319.4 Initial Piping Blow Down. New section 4326.7-1319.5 Initial Pressure Test- Piped-Gas Systems- Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section.	
1319.4 Initial Piping Blow Down. New section 1326-7_319.5 Initial Pressure Test- Piped Gas. Systems-Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.2 Leaks. New section	
1319.4 Initial Piping Blow Down. New section 4326.7-1319.5 Initial Pressure Test- Piped-Gas Systems- Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section.	
1319.4 Initial Piping Blow Down. New section 1326.7.1319.5 Initial Pressure Test: Piped Cas. Systems- Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section 1319.5.3 Leaks. New section 1319.5.1 Atmospheric Pressure. New section.	
1319.4 Initial Piping Blow Down. New section 4326.7-1319.5 Initial Pressure Test- Piped-Gas Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section 1319.6.3 Leaks. New section 1319.6.1 Atmospheric Pressure. New section 1319.6.2 System to be Charged. New section	
1319.4 Initial Piping Blow Down. New section 1326.7_1319.5 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Leaks. New section 1319.5.3 Leaks. New section 1319.6.4 Atmospheric Pressure. New section 1319.6.3 System to be Charged. New section 1319.6.4 Check Outlets and Inlets. New section	
1319.4 Initial Piping Blow Down. New section 1328-7_1319.5 Initial Pressure Test- Piped Gas. Systems-Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.6.1 Atmospheric Pressure. New section 1319.6.2 System to be Charged. New section. 1319.6.4 Check Outlets and Inlets. New section. 1319.6.5 Repeat Tests. New section.	
1319.4 Initial Piping Blow Down. New section 4326.7.]319.5 Initial Pressure Test- Piped Gae. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.6.3 Letter to be charged. New section. 1319.6.4 Check Outlets and Inlets. New section. 1319.6.5 Repeat Tests. New section. 1319.6.6 Repeat Tests. New section. 1319.6.7 Systems. New section.	
1319.4 Initial Piping Blow Down. New section 1328-7_1319.5 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Leaks. New section 1319.5.3 Leaks. New section 1319.5.4 Atmospheric Pressure. New section. 1319.6.5 Atmospheric Pressure. New section. 1319.6.5 Athorspheric Pressure. New section. 1319.6.6 Acheck Outlets and Inlets. New section. 1319.6.6 Identification of Systems. New section 1319.6.6 Identification of Pressure. New section 1319.6.5 Repeat Tests. New section.	
1319.4 Initial Piping Blow Down. New section 4326.7.]319.5 Initial Pressure Test- Piped Gae. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.6.3 Letter to be charged. New section. 1319.6.4 Check Outlets and Inlets. New section. 1319.6.5 Repeat Tests. New section. 1319.6.6 Repeat Tests. New section. 1319.6.7 Systems. New section.	
1319.4 Initial Piping Blow Down. New section 4328.7.1319.5 Initial Pressure Test- Piped-Gaes Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.6.4 Atmospheric Pressure. New section. 1319.6.5 Atmospheric Pressure. New section. 1319.6.5 Atmospheric Pressure. New section. 1319.6.5 Repeat Tests. New section. 1319.6.6 Identification of Systems. New section. 1319.6.5 Repeat Tests. Revise section. 1319.6.6 Identification of Systems. New section. 1319.6.7 Standing Pressure Test. Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised.	
1319.4 Initial Piping Blow Down. New section 1328-7_1319.5 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Leaks. New section 1319.5.3 Leaks. New section 1319.5.4 Atmospheric Pressure. New section 1319.5.4 Atmospheric Pressure. New section. 1319.5.5 A check Outlets and Inlets. New section 1319.6.6 Repeat Tests. New section 1319.6.6 Identification of Systems. New section 1319.6.5 Repeat Tests. New section 1319.6.6 Identification of Systems. New section 1319.6.7 Standing Pressure Test. <u>Medical Gas Piping Systems Piped Gas-Systems</u> . Renumbered, renamed, and revised. 1319.7.1 Time Frame for Testing. New section	
1319.4 Initial Piping Blow Down. New section 4328.7.1319.5 Initial Pressure Test- Piped-Gaes Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.6.4 Atmospheric Pressure. New section. 1319.6.5 Atmospheric Pressure. New section. 1319.6.5 Atmospheric Pressure. New section. 1319.6.5 Repeat Tests. New section. 1319.6.6 Identification of Systems. New section. 1319.6.5 Repeat Tests. Revise section. 1319.6.6 Identification of Systems. New section. 1319.6.7 Standing Pressure Test. Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised.	
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1319.4 Initial Piping Blow Down. New section 1328-7_1319.5 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Leaks. New section 1319.5.3 Leaks. New section 1319.5.4 Atmospheric Pressure. New section 1319.5.4 Atmospheric Pressure. New section. 1319.6.5 A bech Couldes and Inlets. New section. 1319.6.6 Check Outlets and Inlets. New section. 1319.6.6 Identification of Systems. New section 1319.6.6 Identification of Systems. New section 1326.6 Jobst States. New section 1319.6.7 Standing Pressure Test. Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised. 1319.7.1 Time Frame for Testing. New section	1319.7.2.1 Category 3 Gas Powered Device Distribution Piping. The source valve shall be closed. unless the source gas is being used for the test. INFPA 99:5.3.12.2.9(2)
1319.4 Initial Piping Blow Down. New section 1328.4 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.5.4 Atmospheric Pressure. New section 1319.5.5 Atmospheric Pressure. New section. 1319.6.5 Repeat Tests. New section 1319.6.5 Repeat Tests. New section 1319.6.6 Identification of Systems. New section 1319.6.7 Standing Pressure Test. Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised. 1319.7.1 Time Frame for Testing. New section 1319.7.2 Source Valve. New section.	1319.7.2.1 Category 3 Gas Powered Device Distribution Piping. The source valve shall be closed. unless the source gas is being used for the test. [NFPA 99:5.3.12.2.9(2)].
1319.4 Initial Piping Blow Down. New section 1328-7_1319.5 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Leaks. New section 1319.5.3 Leaks. New section 1319.5.4 Atmospheric Pressure. New section 1319.5.4 Atmospheric Pressure. New section. 1319.6.5 A bech Couldes and Inlets. New section. 1319.6.6 Check Outlets and Inlets. New section. 1319.6.6 Identification of Systems. New section 1319.6.6 Identification of Systems. New section 1326.6 Jobst States. New section 1319.6.7 Standing Pressure Test. Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised. 1319.7.1 Time Frame for Testing. New section	unless the source gas is being used for the test. [NFPA 99:5.3.12.2.9(2)]
1319.4 Initial Piping Blow Down. New section 1328.4 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.5.4 Atmospheric Pressure. New section 1319.5.5 Atmospheric Pressure. New section. 1319.6.5 Repeat Tests. New section 1319.6.5 Repeat Tests. New section 1319.6.6 Identification of Systems. New section 1319.6.7 Standing Pressure Test. Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised. 1319.7.1 Time Frame for Testing. New section 1319.7.2 Source Valve. New section.	unless the source gas is being used for the test. [NFPA 99:5.3.12.2.9(2)]. 1319.7.3.1 Category 3 Gas Powered Device Distribution Piping. The piping systems shall be.
1319.4 Initial Piping Blow Down. New section 1328.4 Initial Pressure Test- Piped Gas. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.5.4 Atmospheric Pressure. New section 1319.5.5 Atmospheric Pressure. New section. 1319.6.5 Repeat Tests. New section 1319.6.5 Repeat Tests. New section 1319.6.6 Identification of Systems. New section 1319.6.7 Standing Pressure Test. Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised. 1319.7.1 Time Frame for Testing. New section 1319.7.2 Source Valve. New section.	unless the source gas is being used for the test. [NFPA 99:5.3.12.2.9(2)]. 1319.7.3.1 Category 3 Gas Powered Device Distribution Piping. The piping systems shall be subjected to a 24hour standing pressure testing using oil-free, dry nitrogen NF or the system gas.
1319.4 Initial Piping Blow Down. New section 4328.7.1319.5 Initial Pressure Test-Piped-Gaes Systems-Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section. 1319.6.4 Check Outlets and Inlets. New section. 1319.6.5 Repeat Tests. New section. 1319.6.7 Identification of Systems. New section. 1319.6.7 Identification of Systems. New section. 1319.7.1 Time Frame for Testing. New section. 1319.7.2 Source Valve. New section. 1319.7.3 Length of Testing. New section.	unless the source gas is being used for the test. [NFPA 99:5.3.12.2.9(2)]. 1319.7.3.1 Category 3 Gas Powered Device Distribution Piping. The piping systems shall be.
1319.4 Initial Piping Blow Down. New section 4326.7_1319.5 Initial Pressure Test- Piped Gae. Systems_Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section 1319.6.3 Lystem to be Charged. New section. 1319.6.4 Check Outlets and Inlets. New section. 1319.6.5 Repeat Tests. New section. 1319.6.6 Repeat Tests. New section. 1319.6.7 Standing Pressure Test- Medical Gas Piping Systems Piped Gas-Systems. Renumbered, renamed, and revised. 1319.7.1 Time Frame for Testing. New section. 1319.7.3 Length of Testing. New section. 1319.7.4 Test Pressure. New section.	unless the source gas is being used for the test. [NFPA 99:5.3.12.2.9(2)]. 1319.7.3.1 Category 3 Gas Powered Device Distribution Piping. The piping systems shall be subjected to a 24hour standing pressure testing using oil-free, dry nitrogen NF or the system gas.
1319.4 Initial Piping Blow Down. New section 4328.7.1319.5 Initial Pressure Test-Piped-Gaes Systems-Medical Gas and Medical Vacuum Systems. Renumbered and revised 1319.5.1 Shutoff Valve. New section 1319.5.2 Required Test Pressure. New section. 1319.5.3 Leaks. New section. 1319.6.4 Check Outlets and Inlets. New section. 1319.6.5 Repeat Tests. New section. 1319.6.7 Identification of Systems. New section. 1319.6.7 Identification of Systems. New section. 1319.7.1 Time Frame for Testing. New section. 1319.7.2 Source Valve. New section. 1319.7.3 Length of Testing. New section.	unless the source gas is being used for the test. [NFPA 99:5.3.12.2.9(2)]. 1319.7.3.1 Category 3 Gas Powered Device Distribution Piping. The piping systems shall be subjected to a 24hour standing pressure testing using oil-free, dry nitrogen NF or the system gas.

		1319.7.5.1 Category 3 Gas Powered Device Distribution Piping. At the conclusion of the tests, there shall be no change in the test pressure greater than a gauge pressure of 5 psi (35 kPa). [NFPA_99:5.1.12.2.64, 5.3.12.2.9(5)]
	1319.7.6 Leaks. New section.	
	1319.7.7 Proof of Testing. New section.	
	1326.11 1319.8 Standing Pressure Test- Piped Medical Vacuum Piping Systems.	
	Renumbered, renamed, and revised.	
	1319.8.1 Time Frame for Testing. New section.	
	1319.8.2 Length of Testing. New section.	
	1319.8.3 Test Pressure. New section.	
	1319.8.4 Disconnection of Testing Source. New section.	
	1319.8.5 Conclusion of Testing. New section.	
	1319.8.6 Leaks. New section.	
	1319.8.7 Proof of Testing. New section.	
	1319.9 Purge tests. New section.	
	1319.9.1 Procedure. New section.	
	1319.9.2 Location. New section.	
	1319.10 Operational Test. New section.	
	1319.10.1 Test Gas. New section.	
	1319.10.2 Medical Gas Outlets. New section.	
	1319.10.2 Medical-Surgical Vacuum Inlets. New section.	
	1319.10.4 Oxygen and Medical Air Outlets. New section.	
	1319.11 Medical Gas Concentration Test. New section.	
	TABLE 1319.11 GAS CONCENTRATIONS. New Table.	
A POAL A A A MANAGE MARK A STATE AND	TADLE 1519.11 GAS CONCENTRATIONS. New Table.	
1501.1.1 Allowable use of Alternative Water. Where approved or required by the authority having		
jurisdiction, alternate water sources (reclaimed (recycled) water, gray water and on-site treated nonpotable		
water) shall be permitted to be used in lieu of potable water for the applications identified in this chapter.		
Reclaimed (recycled) water shall not be used to flush toilets or for other indoor use in any residential property		
or dwelling unit where residents have access to plumbing systems for repairs or modifications.		
1501.2 System Design. Alternate water source systems shall be designed in accordance with this chapter by		
a registered design professional or person who demonstrates competency to design the alternate water		
source system as required by the authority having jurisdiction. Components, piping, and fittings used in an		
alternate water source system shall be listed.		
1501.7 Minimum Water Quality Requirements. The minimum water quality for alternate water source		
systems shall meet the applicable water quality requirements for the intended application as determined by		
the authority having jurisdiction. In the absence of water quality requirements, the EPA/625/R-04/108 contain		
recommended water reuse guidelines to assist regulatory agencies develop, revise, or expand alternate wate	r	
source water quality standards.		
The treatment for gray water used to flush toilets or urinals shall be oxidized, coagulated, filtered		
and disinfected, and be consistent at all times with Washington Class A reclaimed water or better and be		
approved by the authority having jurisdiction.		
	1501.10 Commercial, Industrial, and Institutional Restrooms Signs. New section.	
	1501.10.1 Equipment Room Signs. New section.	
	1501.11 Inspection and Testing. New section.	
	1501.11.1 Supply System Inspection and Testing. New section.	
	1501.11.2.1 Visual System Inspection. New section.	
1	1501.11.2.2 Cross-Connection Test. New section.	1
1501.11.2.3 Discovery of Cross-Connection. In the event that a cross-connection is discovered, the	1501.11.2.3 Discovery of Cross-Connection. New section.	
following procedure, in the presence of the AHJ, shall be activated immediately:	Section.	
(1) Reclaimed (recycled) water piping to the building shall be shutdown at the meter, and the reclaimed		
(recycled) water riser shall be drained.		
(2) Potable water piping to the building shall be shutdown at the meter.		
(2) Potable water piping to the building shall be shutdown at the meter. (3) The cross-connection shall be uncovered and disconnected.		
 (4) The building shall be retested following procedures listed in Sections 1501.11.2.1 and 1501.11.2.2. 		
(4) The building shall be retested following procedures listed in Sections 1501.11.2.1 and 1501.11.2.2. (5) The potable water system shall be chlorinated with 50 parts-per-million (ppm) chlorine for twenty-four		
(5) The polable water system shall be chlorinated with 50 parts-per-million (ppm) chlorine for twenty-rour hours.		
nours. (6) The potable water system shall be flushed after twenty-four hours, and a standard bacteriological test for		
drinking water shall be performed by a laboratory certified for drinking water in Washington state. Where test		
results are satisfactory to the authority having jurisdiction, health authority having jurisdiction, and the water		
purveyor, the potable water system shall be permitted to be recharged. See also chapter 246-290 WAC.		
purveyor, ure potable water system shall be permitted to be recharged. See also chapter 240-290 WAC.		
	1501.11.2.4 Annual Inspection. New section.	
	1501.12 Separation Requirements. New section.	
	1501.13 Abandonment. New section.	
1501.13.1 General. An abandoned system or part thereof covered under the scope of this chapter shall be	1501.13.1 General. New section.	
disconnected from remaining systems, drained, plugged, and capped in an approved manner. Components c	1501.13.1 General. New section.	
disconnected from remaining systems, drained, plugged, and capped in an approved manner. Components c the abandoned system including, but not limited to, pipe, tubing, fittings, and valves shall not be used for	1501.13.1 General. New section.	
disconnected from remaining systems, drained, plugged, and capped in an approved manner. Components c	1501.13.1 General. New section. f	
disconnected from remaining systems, drained, plugged, and capped in an approved manner. Components c the abandoned system including, but not limited to, pipe, tubing, fittings, and valves shall not be used for	1501.13.1 General. New section. f 1501.13.2 Underground Tank. New section.	
disconnected from remaining systems, drained, plugged, and capped in an approved manner. Components of the abandoned system including, but not limited to, pipe, tubing, fittings, and valves shall not be used for potable water systems.	1501.13.1 General. New section. f	
disconnected from remaining systems, drained, plugged, and capped in an approved manner. Components c the abandoned system including, but not limited to, pipe, tubing, fittings, and valves shall not be used for	1501.13.1 General. New section. f 1501.13.2 Underground Tank. New section.	

1503.4 Connection to Potable or Reclaimed (Recycled) Water Systems. Reclaimed (recycled) water		
systems shall have no connection to a potable water supply or alternate water source system. Potable water		
is permitted to be used as makeup water for a reclaimed (recycled) water storage tank provided the water		
supply inlet is protected by an approved air gap in accordance with this code.		
1504.1 General. The provisions of this section shall apply to the installation, construction, alteration, and		
repair of on-site treated nonpotable water systems intended to supply uses such as water closets, urinals, tra		
primers for floor drains and floor sinks, and other uses approved by the authority having jurisdiction.		
1504.7 On-Site Treated Nonpotable Water Devices and Systems. Devices or equipment used to treat		
nonpotable water for on-site use in order to maintain the minimum water quality requirements determined by		
the authority having jurisdiction shall be listed or labeled (third-party certified) by a listing agency (accredited		
conformity assessment body) or approved for the intended application. Devices or equipment used to treat		
gray water or sewage for use in water closet and urinal flushing, surface irrigation, and similar applications		
shall oxidize, coagulate, filter and disinfect the gray water or sewage, and be consistent at all times with		
Washington Class A reclaimed water or better and be approved by the authority having jurisdiction.		
	1601.1 Allowable Use of Alternative Water. New section.	
	1601.2 System Design. New section.	
	1601.3 Permit. New section.	
	1601.4 Component Identification. New section.	
	1601.5 Maintenance and Inspection. New section.	
	1601.5.1 Frequency. New section.	
	1601.5.2 Maintenance Log. New section.	
	1601.5.3 Maintenance Responsibility. New section.	
	TABLE 1601.5 MINIMUM ALTRNATE WATER	
	SOURCE TESTING, INSPECTION AND	
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	1601.10 Separation Requirements. New section.	
	1601.11 Abandonment. New section.	
1601.11.1 General. An abandoned system or part thereof covered under the scope of this chapter shall be	1601.11.1 General. New section.	
disconnected from remaining systems, drained, plugged and capped in an approved manner. Components of		
the abandoned system including, but not limited to, pipe, tubing, fittings and valves shall not be used for		
potable water systems.		
	1601.11.2 Underground Tests. New section.	
	1601.12 Sizing. New section.	
1602.0 Nonpotable Rainwater Catchment Systems.		
	1702.9.3 1602.3.1 Collection Other Surfaces. Revised.	
	1702.9.4 1602.9.4 Minimum Water Quality. The minimum water quality for harvested	
	rainwater shall meet the applicable water quality requirements for the intended applications	
	as determined by the Authority Having Jurisdiction. In absence of water quality	
	requirements determined by the Authority Having Jurisdiction, the minimum treatment and	
	water quality shall be in accordance with Table 1602.9.4. No treatment is required for	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L).	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table_	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table. 4702.9.5.6(A) 1602.9.5.6 Animals and Insects. Rainwater tank openings shall be protected to prevent the entrance of insects, birds, or rodents into the tank.	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table. 1702.9.5.6(A) <u>1602.9.5.6</u> Animals and Insects. Rainwater tank openings shall be protected to prevent the entrance of insects, birds, or rodents into the tank. Rainwater tank openings exceeding 12 inches (305 mm) in diameter shall be secured to	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table 1702.9.5.6(A) 1602.9.5.6 Animals and Insects. Rainwater tank openings shall be protected to prevent the entrance of insects, birds, or rodents into the tank. Rainwater tank openings exceeding 12 inches (305 mm) in diameter shall be secured to prevent tampering and unattended entry by either a lockable device or other approved. method	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table. 1702.9.5.6 (A) 1602.9.5.6 Animals and Insects. Rainwater tank openings shall be protected to prevent the entrance of insects, birds, or rodents into the tank. Rainwater tank openings exceeding 12 inches (305 mm) in diameter shall be secured to prevent tampering and unattended entry by either a lockable device or other approved method. 1602.9.5.6 Storage Tank Venting. New section. 1702.11.1 Supply System Inspection and Testing. Add- Storage tanks shall	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY, New Table TABLE 1062.9.4 MINIMUM WATER QUALITY, New Table TABLE 1062.9.5.6 Animals and Insects. Rainwater tank openings shall be protected to prevent the entrance of insects, birds, or rodents into the tank. Rainwater tank openings exceeding 12 inches (305 mm) in diameter shall be secured to prevent tampering and unattended entry by either a lockable device or other approved. method 1602.9.5.6 Storage Tank Venting. New section 4702.41.6102.11.1 Supply System Inspection and Testing. Add- Storage tanks shall be filled with water to the overflow opening for a period of 24 hours, and during inspection.	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY. New Table	
	rainwater used for subsurface or non-sprinklered surface irrigation where the maximum storage volume is less than 360 gallons (1363 L). TABLE 1062.9.4 MINIMUM WATER QUALITY, New Table TABLE 1062.9.4 MINIMUM WATER QUALITY, New Table TABLE 1062.9.5.6 Animals and Insects. Rainwater tank openings shall be protected to prevent the entrance of insects, birds, or rodents into the tank. Rainwater tank openings exceeding 12 inches (305 mm) in diameter shall be secured to prevent tampering and unattended entry by either a lockable device or other approved. method 1602.9.5.6 Storage Tank Venting. New section 4702.41.6102.11.1 Supply System Inspection and Testing. Add- Storage tanks shall be filled with water to the overflow opening for a period of 24 hours, and during inspection.	

1602.11.2.3 Discovery of Cross-Connection. In the event that a cross-connection is discovered, the		
following procedure, in the presence of the AHJ, shall be activated immediately:		
(1) Rainwater catchment water piping to the building shall be shutdown at the meter, and the rainwater water		
riser shall be drained.		
(2) Potable water piping to the building shall be shutdown at the meter.		
(3) The cross-connection shall be uncovered and disconnected.		
(4) The building shall be retested following procedures listed in Sections 1603.11.2.1 and 1603.11.2.2.		
(5) The potable water system shall be chlorinated with 50 parts-per-million (ppm) chlorine for twenty-four		
hours.		
(6) The potable water system shall be flushed after twenty-four hours, and a standard bacteriological test for		
drinking water shall be performed by a laboratory certified for drinking water in Washington state. Where test		
results are satisfactory to the authority having jurisdiction, health authority having jurisdiction, and the water		
purveyor, the potable water system shall be permitted to be recharged. See also chapter 246-290 WAC.		
	Appendices	
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	C201.1 Branch Interval. New definition.	
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	E101.2 Definitions. Add- Recreational Vehicle (RV)	
	Recreational Vehicle Park	
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	SERVING APPLIANCES EQUIPPED WITH	
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	expanded polystyrene synthetic aggregate units that comply with IAPMO IGC 276 shall be	
	sized using on the bottom absorption area (nominal unit width) in square feet. The the	
	required area shall be calculated using Table H2.1(2) H 201.1(3) with a 0.70 multiplier.	
	required area shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the tree terms of the shall be calculated using table the terms of terms	
	APPEDIX I INSTALLATION STANDARD FOR EPX	
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L 402.4 Residential Kitchen Faucets. New section.	
L 402.6.2 Bath and Shower Diverters. New section.	
L 402.6.3 Shower Valves. New section.	
L 402.7 Commercial Pre-Rinse Spray Valves. New section.	
L 402.8 Emergency Safety Showers and Eye Wash Stations. New section.	
L 402.9 Drinking Fountains. New section.	
L 403.0 Appliances. New section and subsections.	
L 404.0 Occupancy Specific Water Efficiency Requirements. New section and	
subsections.	
L 405.0 Leak Detection and Control. New section and subsections.	
	L 407.2 Approval. New section.
	L 408.1.1 Condensate Drainage Recovery. New section.
L 405.1 409.1 General. Sump pumps powered by potable or reclaimed (recycled) water	
pressure shall be used as an emergency backup pump. The waterpowered pump shall be	
equipped with a battery powered alarm having a minimum rating of 85 dba at 10 feet (3048	
mm). Water-powered pumps shall have a water efficiency factor of pumping at least 1.4	
gallons (5.3 L) of water to a heiht of 10 feet (3048 mm) for every gallon of water used to	
operate the pump, measured at a water pressure of 60 psi (414 kPa). Pumps shall be	
clearly labeled as to the gallons of water pumped per gallon of potable water consumed are	
not permitted. Water-powered stormwater sump pumps shall be equipped with a reduced	
pressure principle backflow prevention assembly.	
1.440.0 Weter Cofference and Treatment De Sec. New Other address of	
L 410.0 Water Softeners and Treatment Devices. New section and subsections.	
L 411.0 Landscape Irrigation Systems. New section and subsections.	
L 412.0 Trap Seal Protection. New section and subsections.	
L 413.0 Vehicle Wash Facilities. New section and subsections.	
	L 413.2 Self-Service. New section.
	L 413.3 Reverse Osmosis. New section.
	L 413.4 Towel Ringers. New section.
	L 413.4 Tower Kingers. New Section.
	L 603.3.3 503.3.3 Insulation. Add- (3) The first 8 feet (2438 mm) of branch piping connecting to
	recirculated, heat-traced, or impedance heated piping. (4) The inlet piping between the storage tank
	and a heat trap in a nonrecirculating storage system. (5) Piping that is externally heated (such as heat
	trace or impedance heating). [ASHRAE 90.1:7.4.3]
	trace or impedance heating). [ASHRAE 90.1:7.4.3]
	trace or impedance heating). [ASHRAE 90.1:7.4.3]
	trace or impedance heating). [ASHRAE 90.1:7.4.3]
	trace or impedance heating). [ASHRAE 90.1:7.4.3]
	trace or impedance heating). [ASHRAE 90.1:7.4.3]
L 504.2 Minimum Water Quality. Upon initial startup, the quality of the water for the	trace or impedance heating). [ASHRAE 90.1:7.4.3]
L 504.2 Minimum Water Quality. Upon initial startup, the quality of the water for the intended application shall be verified at the point(s) of use as determined by the Authority.	trace or impedance heating). [ASHRAE 90.1:7.4.3]
intended application shall be verified at the point(s) of use as determined by the Authority	trace or impedance heating). [ASHRAE 90.1:7.4.3]
intended application shall be verified at the point(s) of use as determined by the Authority. Having Jurisdiction. In absence of water quality requirements determined by the Authority	trace or impedance heating). [ASHRAE 90.1:7.4.3]
Intended application shall be verified at the point(s) of use as determined by the Authority. Having Jurisdiction. In absence of water quality requirements determined by the Authority. Having Jurisdiction, the minimum water quality shall be in accordance with Table L.	trace or impedance heating). [ASHRAE 90.1:7.4.3]
Intended application shall be verified at the point(s) of use as determined by the Authority. Having Jurisdiction, In absence of water quality requirements determined by the Authority. Having Jurisdiction, the minimum water quality shall be in accordance with Table L. 504.2(1). Normal system maintenance will require system testing every 3 months. Systems	trace or impedance heating). [ASHRAE 90.1:7.4.3]
intended application shall be verified at the point(s) of use as determined by the Authority Having Jurisdiction. In absence of water quality requirements determined by the Authority Having Jurisdiction, the minimum water quality shall be in accordance with Table L. 504.2(1). Normal system maintenance will require system testing every 3 months. Systems shall comply with Table L 504.2(2). The minimum water quality for harvested rainwater	trace or impedance heating). [ASHRAE 90.1:7.4.3]
Intended application shall be verified at the point(s) of use as determined by the Authority. Having Jurisdiction. In absence of water quality requirements determined by the Authority. Having Jurisdiction, the minimum water quality shall be in accordance with Table L 504.2(1). Normal system maintenance will require system testing every 3 months. Systems shall comply with Table L 504.2(2). The minimum water quality for harvested rainwater, shall comply with the applicable water quality requirements for the intended applications as	trace or impedance heating). [ASHRAE 90.1:7.4.3]
Intended application shall be verified at the point(s) of use as determined by the Authority. Having Jurisdiction. In absence of water quality requirements determined by the Authority. Having Jurisdiction, the minimum water quality the bin accordance with Table L. 504.2(1). Normal system maintenance will require system testing every 3 months. Systems shall comply with Table L 504.2(2). The minimum water quality for harvested rainwater shall comply with the applicable water quality requirements for the intended applications as determined by the public health Authority Having Jurisdiction. Health Department, or other	trace or impedance heating). [ASHRAE 90.1:7.4.3]
Intended application shall be verified at the point(s) of use as determined by the Authority. Having Jurisdiction. In absence of water quality requirements determined by the Authority. Having Jurisdiction, the minimum water quality shall be in accordance with Table L 504.2(1). Normal system maintenance will require system testing every 3 months. Systems shall comply with Table L 504.2(2). The minimum water quality for harvested rainwater, shall comply with the applicable water quality requirements for the intended applications as	trace or impedance heating). [ASHRAE 90.1:7.4.3]
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