

567—43.1(455B) General information.

43.1(1) *Emergency actions regarding water supplies.* When, in the opinion of the director, an actual or imminent hazard exists, a water supplier shall comply with the directives or orders of the director necessary to eliminate or minimize that hazard.

a. Water hauling on an emergency basis. A system that is providing finished drinking water hauled from another PWS must ensure the safety of the water in an emergency situation.

(1) Hauled water must come from a PWS currently regulated by the department and in compliance with 567—Chapters 40 through 43. Written department approval is required prior to the use of water from any PWS with a chronic health-based standard violation.

(2) The receiving PWS must have written department approval prior to the use of water from any PWS located in another state. The providing PWS must be in compliance with SDWA requirements.

(3) The hauled water must be disinfected with chlorine to ensure bacterial safety in the tanker, storage vessel, and distribution system. If the PWS providing the water does not disinfect, chlorine disinfectant must be added to the hauled water before use or storage at the receiving PWS. A minimum disinfectant residual of 2.0 mg/L as total chlorine or chloramines or 0.5 mg/L as free chlorine must be maintained in the tanker, storage vessel, and distribution system. If no disinfectant is used, the transported water must be boiled before any human consumptive use, which includes drinking, bathing, handwashing, oral hygiene, food preparation, dishwashing, ice making, or food processing.

(4) The tanker or water bladder must be approved for hauling or storing food grade materials and be sanitized in accordance with AWWA C652 prior to first use.

(5) Both filling and dispensing devices must include backflow protection to protect the source water, such as an air gap, double-check-valve assembly, or reduced pressure zone device.

(6) Total coliform bacteria samples must be collected from the tanker, storage tank or bladder, and distribution system as follows:

1. Tanker: one sample after cleaning and one before first potable water use.

2. Storage tank or bladder: one sample after cleaning and one before first use.

3. Distribution system: one sample initially before first use and with each new load of water or once per month, whichever is more frequent.

(7) Records must be maintained and available for inspection for five years.

b. Water hauling on a nonemergency basis. A system that is providing finished drinking water hauled from another PWS must comply with the conditions in its operation permit.

43.1(2) *Prohibition on the use of lead.* Any pipe, pipe fitting, plumbing fitting, plumbing fixture, solder, or flux that is used in the installation or repair of any public water supply system (PWS) or any plumbing in a facility providing water for human consumption that is connected to a PWS shall be lead free as defined in 567—40.2(455B). This shall not apply to leaded joints necessary for the repair of cast iron pipe.

a. The following items are exempted from the prohibition, depending upon their use in the system: pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for nonpotable services such as manufacturing, industrial processing, irrigation, outdoor watering, or any other uses where the water is not anticipated to be used for human consumption.

b. Additional products that could be used exclusively for nonpotable services include:

(1) Products that are clearly labeled on the product, package, or tags with a phrase such as “not for use with water for human consumption” or another phrase that conveys the same meaning in plain language;

(2) Products that are incapable of use in potable services with other products that would be needed to convey water for potable uses; or

(3) Products that are plainly identifiable and marketed as being solely for a use other than the conveyance of water. These other uses include conveyance of air, chemicals other than water, hydraulic fluids, refrigerants, gases, or other nonwater fluids.

c. The following items are exempted from the prohibition: toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, fire hydrants, service saddles, water distribution main gate valves two inches in diameter or larger, clothes washing machines, emergency drench showers, emergency

face wash equipment, eyewash devices, fire suppression sprinklers, steam capable clothes dryers, and sump pumps.

43.1(3) *Use of noncentralized treatment devices.*

a. Community PWS. CWSs shall not use bottled water, point-of-use (POU) or point-of-entry (POE) devices to achieve permanent compliance with a maximum contaminant level (MCL), treatment technique (TT), or action level (AL) requirement in 567—Chapters 41 and 43.

b. Noncommunity PWS. The department may allow NCWSs to use POU devices to achieve MCL compliance, provided the contaminant does not pose an imminent threat to health (such as bacteria) nor place a sensitive population at risk (such as infants for nitrate or nitrite).

c. Reduced monitoring requirements. Bottled water, POU, or POE devices cannot be used to avoid the monitoring requirements of 567—Chapters 41 and 43, but the department may allow reduced monitoring requirements in specific instances.

d. Bottled water requirements. The department may require a PWS exceeding an MCL, TT, or AL requirement in 567—Chapters 41 and 43 to use bottled water as a condition of an interim compliance schedule or as a temporary measure to avoid an unreasonable health risk. Any bottled water must meet the federal Food and Drug Administration (FDA) bottled water standards in 21 CFR §165.110. The system must meet the following requirements:

(1) *Monitoring program.* Submit a monitoring program for bottled water to the department. The monitoring program must provide reasonable assurances that the bottled water complies with all MCLs, TT, or AL requirements in 567—Chapters 41 and 43. The PWS must monitor a representative sample of bottled water for all contaminants regulated under 567—Chapters 41 and 43 the first quarter that it supplies the bottled water to the public, and annually thereafter. Monitoring program results shall be provided to the department annually. If the bottled water is from a CWS that currently meets all of the federal SDWA requirements, the monitoring requirements of this subparagraph shall be waived by the department. The specific supplier of the bottled water must be identified in order for the department to waive the monitoring requirements.

(2) *Certification.* The PWS must receive a certification from the bottled water company that the bottled water supplied has been taken from an approved source; the bottled water company has conducted monitoring in accordance with 43.1(3)“b”(1); and the bottled water meets MCL, TT, or AL requirements in 567—Chapters 41 and 43. The PWS shall provide the certification to the department the first quarter after it supplies bottled water and annually thereafter.

(3) *Provision of bottled water.* The PWS is fully responsible for the provision of sufficient quantities of bottled water to every person supplied by the PWS via door-to-door bottled water delivery.

43.1(4) *Cross-connection control.* To prevent backflow or backsiphonage of contaminants into a PWS, connection shall not be permitted between a PWS and any other system that does not meet the monitoring and drinking water standards of this chapter, except as provided in 43.1(4)“a,” “b,” or “c.”

a. Piping and plumbing systems. Piping systems or plumbing equipment carrying nonpotable water, contaminated water, stagnant water, liquids, mixtures, or waste mixtures shall not be connected to a PWS unless properly equipped with an antisiphon device or backflow preventer acceptable to the department.

b. Water loading stations. The Ten States Standards contain the construction standards regarding water loading stations.

c. Contamination as a result of cross-connection. When, in the department’s opinion, evidence clearly indicates the source of contamination within a system is the result of a cross-connection, the department may require a PWS to provide public notice (PN), identify and eliminate the connection, and implement a systemwide cross-connection program.

43.1(5) *Requirement for certified operator.* The department maintains a list of certified operators in accordance with 567—Chapter 81. The list includes the operator’s name, certification classification (Water Treatment, Water Distribution, or Grade A Water System), and grade (A, I, II, III, or IV), and is periodically updated during the year.

a. CWS and NTNC systems. All CWSs and NTNCs must have a certified operator in direct responsible charge (DRC) of the treatment and distribution systems, pursuant to 567—Chapters 40 through 44 and 81.

b. TNC systems.

(1) Any TNCs owned by the state or federal government or using a surface water (SW) or IGW source must have a certified operator in DRC of the treatment and distribution systems, pursuant to 567—Chapters 40 through 44 and 81.

(2) Any TNC that uses chlorine dioxide as a disinfectant or oxidant must have a certified operator in DRC of the system, pursuant to 567—Chapter 81.

(3) The department may require any TNC to have a certified operator in DRC.

43.1(6) *Return water in PWSs.* Steam condensate, cooling water from engine jackets, water used in conjunction with heat exchange devices, or treated wastewater shall not be returned to a PWS.

43.1(7) *Sanitary surveys.* Each PWS must have a periodic sanitary survey conducted by the department or its designee. Systems must provide, upon request, any information that will enable the department to conduct the sanitary survey.

a. A sanitary survey is a records review and on-site inspection that evaluates a system's ability to produce and distribute safe drinking water and identifies improvements necessary to maintain or improve drinking water quality. A survey includes review and inspection of the following areas: water source; treatment facilities; distribution systems; finished water storage; pumps, pump facilities, controls and other equipment; monitoring, reporting, and data verification, including self-monitoring; system operation and management; maintenance; operator certification; and records.

b. A sanitary survey report is issued by the department or its designee, and may include both enforceable required actions for remedying significant deficiencies and nonenforceable recommended actions.

c. Sanitary surveys shall be conducted at least once every five years for TNCs and NTNCs and once every three years for CWSs.

d. The department or its designee shall provide the PWS with a written notice describing any significant deficiencies identified during the survey no later than 30 days after identification of the deficiency. The notice may be included in the sanitary survey report and may specify corrective actions and deadlines for completion of corrective actions. Systems must respond in writing to significant deficiencies outlined in the sanitary survey report or written notice and indicate how and on what schedule the system will address the noted deficiencies, either within 30 days of receiving the survey report or notice or within the time period specified in the report or notice. All systems must take the steps necessary to address significant deficiencies identified in a sanitary survey report or written notice that are within the control of the system and its governing body.

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