
State Water Resources Control Board

NOTICE OF PUBLIC AVAILABILITY OF CHANGES TO PROPOSED REGULATIONS REGARDING POINT-OF-USE / POINT-OF-ENTRY TREATMENT

TITLE 22. SOCIAL SECURITY DIVISION 4. ENVIRONMENTAL HEALTH CHAPTER 15

NOTICE IS HEREBY GIVEN that the State Water Resources Control Board (State Board) has added materials to the list of Documents Relied Upon and changed the text of the proposed permanent Point-of-Use and Point-of-Entry Treatment regulations, and is making the additional documents and changed text available for public comment for 15 days prior to adoption of the resulting regulations.

A copy of the proposed text with the new changes clearly illustrated is attached, with additional proposed regulation text indicated by a double underline and deleted proposed regulation text indicated by a ~~double strikethrough~~. For the Internet posting of this notice, the regulation text is posted as a separate document in conjunction with this Public Notice. The additional documents relied upon are available at the State Board's office at 1001 I Street, Sacramento, California during normal business hours (8:00 a.m. – 5:00 p.m. Monday-Friday) and at https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/regulations/.

LIST OF MATERIAL ADDED

- Documents Relied Upon
 - ALSA Tech, LLC, 2011. Costs of Arsenic Removal Technologies for Small Water Systems: U.S. EPA Arsenic Removal Technology Demonstration Program, ALSA Tech, LLC, September 2011
 - UC Davis, 2012. Drinking Water Treatment for Nitrate, Technical Report 6, Center for Watershed Sciences, University of California, Davis, July 2012
 - WQTS, 2013. Cost of Cr(VI) Removal from Groundwater, Water Quality & Treatment Solutions, Inc., 2013 <http://crvitreatmentcosts.com/cost-calculator/>
 - U.S. EPA, 2007. Cost Evaluation of Point-of-Use and Point-of-Entry Treatment Units for Small Systems: Cost Estimating Tool and user Guide, United States Environmental Protection Agency, April 2007

WRITTEN COMMENT PERIOD AND SUBMITTAL OF COMMENTS

Any person, or his or her representative, may submit written comments on the additional documents relied upon and changes to the proposed regulations. Pursuant to Government Code section 11346.8(c), the written comment period closes at 12:00 p.m. on February 2, 2018.

FELICIA MARCUS, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

The State Board will only consider comments received at the State Board offices by that time. Submit written comments via at least one of the following:

Electronic mail (email): commentletters@waterboards.ca.gov

FAX: (916) 341-5620

Postal Mail: Ms. Jeanine Townsend, Clerk to the Board
State Water Resources Control Board
P.O. Box 100, Sacramento, CA 95812-2000

Hand Delivery: Ms. Jeanine Townsend, Clerk to the Board
State Water Resources Control Board
1001 I Street, 24th Floor, Sacramento, CA 95814

Persons delivering comments must check in with lobby security and have them contact Ms. Jeanine Townsend at (916) 341-5600.

Also, please indicate in the subject line and/or on the cover page of submittals: **“Comments – Proposed Revised POU/POE Regulations”**.

All comments, including email or fax transmissions, should include the author’s name and contact information, including either email or U.S. Postal Service mailing address in order for the State Board to provide any notices that may be required in future.

Due to the limitations of the email system, emails larger than 15 megabytes (MB) may be rejected and will not be received by the State Board. Therefore, emails larger than 15 MB should be submitted under separate emails that are each less than 15 MB, or another form of delivery should be used.

The State Board requests, but does not require, that written comments sent by mail or hand-delivered be submitted in triplicate.

The State Board requests, but does not require, that if reports or articles in excess of 25 pages are submitted in conjunction with the comments, that the commenter provide a summary of the report or article and describe the reason for which the report or article is being submitted or is relevant to the proposed regulation.

Please note that under the California Public Records Act (Gov. Code, § 6250 *et seq.*), your written comments, attachments, and associated contact information (*e.g.*, your address, phone, email, *etc.*) become part of the public record and can be released to the public upon request.

In the Final Statement of Reasons, staff will respond to all comments received on the record during the comment periods. The Administrative Procedures Act requires that staff respond to comments received regarding all noticed changes. Therefore, staff will only address comments received during this 15-day comment period that are related to the materials added and the list of documents relied upon and changes detailed in the attached copy of the proposed regulatory text.

STATE BOARD CONTACT PERSONS

Requests for copies of the additional materials and the proposed regulatory text, the initial statement of reasons, subsequent modifications of the proposed regulatory text, or other inquiries concerning the proposed action may be directed to:

Melissa Hall, P.E.
Senior Water Resource Control Engineer
State Water Resources Control Board, Division of Drinking Water
1001 I Street, 17th Floor, Sacramento, CA 95814
Telephone: (916) 323-0373
Electronic mail address: melissa.hall@waterboards.ca.gov

In the event Miss Hall is not available to respond to requests or inquiries, please contact:

Mark Bartson, P.E.
Supervising Sanitary Engineer
State Water Resources Control Board, Division of Drinking Water
1001 I Street, 17th Floor, Sacramento, CA 95814
Telephone: (916) 449-5622
Electronic mail address: mark.bartson@waterboards.ca.gov

INTERNET ACCESS

Copies of this Notice, the Notice of Proposed Rulemaking, the Initial Statement of Reasons, and the text of the proposed regulations may be found on the State Board's Web site at the following address: https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/regulations/

**TITLE 22, CALIFORNIA CODE OF REGULATIONS
DIVISION 4, CHAPTER 15**

ARTICLE 2.5. Point-of-Use Treatment

Adopt Section 64417 as follows:

§64417. Definitions.

“Point-of-use treatment device” or “POU” means a treatment device applied to a single tap for the purpose of reducing contaminants in drinking water at that tap.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

Adopt Section 64418 as follows:

§64418. General Provisions.

(a) A public water system, except for a proposed new community water system that does not have a domestic water supply permit, may be permitted, consistent with Health and Safety Code section 116380(a), to use POUs in lieu of centralized treatment for the purpose of reducing contaminants to achieve compliance with one or more maximum contaminant levels or action levels in this Title, other than for microbial contaminants, volatile organic chemicals, organic chemicals that pose an inhalation risk, or radon, and as allowed under the state and federal Safe Drinking Water Acts, if:

(1) the public water system meets the requirements of this Article and any applicable statutory requirements;

(2) the public water system has:

(A) applied for funding from any federal, state, or local agency to correct the system’s violations; and

(B) demonstrated to the State Board that centralized treatment for achieving compliance is not immediately economically feasible;

(3) the public water system has applied for a permit or permit amendment to use POU's. The duration of the permit or permit amendment issued will be in accordance with Health and Safety Code section 116552;

(4) for a community water system, following a public hearing, the State Board determines pursuant to section 64418.6 that there is no substantial community opposition;

(5) the public water system has a State Board-approved:

(A) POU Treatment Strategy,

(B) POU Operations and Maintenance Program, and

(C) POU Monitoring Program; and

(6) the public water system ensures that each building and each dwelling unit connected to the public water system has a POU installed pursuant to this Article.

(b) With State Board approval and without having to meet the requirement of subsection (a)(6), a public water system may utilize POU's in lieu of centralized treatment for the purpose of reducing contaminants, other than microbial contaminants, volatile organic chemicals, or radon, to levels at or below one or more of the maximum contaminant levels or action levels in this Title, in the water it supplies to some or all of the persons it serves, but the public water system will not be deemed in compliance without meeting the requirement of subsection (a)(6). A public water system's application for a permit to utilize POU's pursuant to this subsection may include a request that one or more of the requirements of this article be amended or eliminated to address the public water system's specific utilization, and such request may be granted or denied by the State Board.

(c) Funding for centralized treatment is available when funding for centralized treatment, from any source, is received by, or otherwise placed under control of, the public water system.

(d) As used in this article, the estimated cost for both centralized treatment and POU treatment shall be the complete life cycle cost for a similar period of time.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

Adopt Section 64418.1 as follows:

§64418.1. Immediate Economic Feasibility of Centralized Treatment.

(a) To specifically meet the requirements of section 64418(a)(2)(B), a community water system, when comparing the costs of centralized treatment to the use of POU treatment, shall submit to the State Board information demonstrating that the:

(1) estimated annual cost of centralized treatment, per household, is more than one percent (1%) of the median household income (MHI) of the customers served by the community water system; and

(2)(A) if the community's annual MHI is equal to or less than the statewide annual MHI, the estimated annual cost of centralized treatment, per household, plus the median annual water bill from the most recent 12 months per household is more than 1.5 percent (1.5%) of the annual MHI of the customers served by the community water system, or

(B) if the community's annual MHI is greater than the statewide annual MHI, the estimated annual cost of centralized treatment, per household, plus the median annual water bill from the most recent 12 months per household is more than

two percent (2%) of the annual MHI of the customers served by the community water system.

(b) A noncommunity water system shall submit to the State Board documents that demonstrate that centralized treatment is not immediately economically feasible.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64418.2 as follows:

§64418.2. POU Requirements.

(a) Each POU must:

(1) Be independently certified in accordance with an American National Standard Institute (ANSI) standard that is applicable to the specific type of proposed POU and that adequately addresses a California drinking water standard; or

(2) Be approved by the State Board, following a review of, including but not limited to the POU unit's design, construction, treatment performance, and available field or pilot test results.

(3) Be owned, controlled, operated, and maintained by the public water system and/or a person(s) under contract with the public water system, to ensure proper operation, maintenance, monitoring, and compliance with this Article and applicable drinking water standards;

(4) Be equipped with a mechanical warning (e.g. alarm, light, etc.) that alerts users when a unit needs maintenance or is no longer operating in a manner that assures the unit is producing effluent meeting state and federal drinking water standards, unless the device is equipped with an automatic shut-off mechanism that prevents the flow of water under such circumstances; and

(5) If requested by the State Board, be equipped with a totalizing flow meter.

(b) Except as provided in subsection (c), pilot testing shall be performed by the public water system, and/or a person(s) under contract with the public water system, on each proposed type of POU to establish its use limitations and operations and maintenance criteria, as well as verification that it will produce effluent that meets applicable drinking water standards under local expected influent water quality and flow conditions.

(1) Prior to performing pilot testing, a pilot testing protocol shall be submitted to the State Board for review and the public water system shall obtain State Board approval of the protocol.

(2) Pilot testing for a POU shall be conducted in the manner and for the time period specified by the pilot testing protocol for that POU, and shall be conducted for no less than two months.

(3) After completion of the pilot testing, the public water system shall submit a report to the State Board describing the results and findings of the pilot testing.

(c) With State Board approval, a public water system may be exempt from, or be subject to, a reduced level of pilot testing required pursuant to subsection (b) if the public water system demonstrates to the State Board that the POUs proposed for use have been tested, by the public water system or another person, under equivalent water quality and flow conditions, and the limitations, criteria, and effluent verification in subsection (b) can be ascertained and have been reported to the State Board.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64418.3 as follows:

§64418.3. POU Treatment Strategy.

(a) Prior to installing POU, a public water system shall submit to the State Board for review, and obtain State Board approval of, a POU Treatment Strategy. The POU Treatment Strategy shall include:

(1) A description of the compliance issues for which POU are being proposed to address and how the use of POU will achieve compliance;

(2) A description of how the public water system will determine the type, number, and location of POU to ensure a sufficient number of devices are installed for human consumption at each building and each dwelling unit connected to the public water system;

(3) The public water system's authority to require customers to accept POU in lieu of centralized treatment and to take an action, such as discontinuing service, if a customer fails to accept POU;

(4) The basis for the POU selection(s);

(5) The qualifications and identification of the person(s) responsible for POU installation, operation, maintenance, and water quality sampling and analyses;

(6) A customer education program to be implemented prior to and following installation of POU;

(7) The authority, ordinances, and/or access agreements that allow the public water system's representatives access to customers' premises for POU installation, maintenance, and water quality monitoring, as well as the surveys necessary to meet subsection (a)(2);

(8) Identification of applicable local regulatory requirements;

(9) A consumer notification protocol to be implemented in the event an installed POU fails to produce water that meets drinking water standards. The protocol shall include:

(A) An example of a notice that includes the requirements of Article 18 of this Chapter Title, and

(B) a plan for provision of an alternative water supply, meeting drinking water standards, to the customers served by the each installed POU not meeting drinking water standards;

(10) A customer notification protocol for routine notifications that includes examples of quarterly (or more frequent) notices, in the appropriate language(s), that inform the customers:

(A) that only the taps for which POUs are installed provide water meeting drinking water standards, and

(B) regarding the mechanical warning or shut-off mechanism required pursuant to section 64418.2(a)(5), including a telephone number that connects the customer to water system personnel or recording system that shall be accessible by water system personnel 24-hours a day, seven days a week, for the purpose of providing the customer a reliable means of notifying personnel when the mechanical warning or shut-off mechanism is activated;

(11) The anticipated schedules for:

(A) the distribution of public hearing information,

(B) the public hearing required pursuant to section 64418.6,

(C) the distribution to customers of POU acceptance surveys,

(D) POU installation, and

(E) the construction of centralized treatment; and

(12) An estimate of the percent of all customers within the public water system's service area who are expected to voluntarily allow installation of POU devices, as well as a description of how the public water system will address customers who do not.

(b) A public water system shall comply with the most current State Board-approved version of its POU treatment strategy at all times.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64418.4 as follows:

§64418.4. POU Operations and Maintenance (O&M) Program.

(a) Prior to installing POU's, a public water system shall submit to the State Board for review, and obtain the State Board approval of, a POU Operations and Maintenance Program (O&M Program). The O&M Program shall include the following:

(1) An installation protocol that, at a minimum, describes locations and assurances that POU's will be accessible for operation and maintenance;

(2) The type and frequency of maintenance, at intervals specified by the manufacturer and determined by pilot testing, whichever is shorter, that ensures POU's produce effluent that meets drinking water standards;

(3) The number and type of auxiliary POU's and parts necessary to ensure continuous effective treatment;

(4) Replacement schedules for critical components and POU's;

(5) The qualifications and identification of the person(s) responsible for POU installation, operation, and maintenance; and

(6) POU waste-handling and disposal procedures.

(b) To ensure a POU is properly operating and has not been bypassed, POU's shall be inspected by the public water system no less often than every twelve months and when a POU's effluent is monitored pursuant to section 64418.5.

(c) Based on the on-going operation and maintenance of installed POU's, a public water system shall revise its POU O&M Program as necessary to ensure continuous effective treatment and that POU's produce effluent that meets drinking water standards. Revised POU O&M Programs shall be submitted to the State Board for review and may not be implemented without State Board approval.

(d) A public water system shall maintain a copy of, and at all times implement the most current State Board-approved version of its POU O&M Program.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64418.5 as follows:

§64418.5. POU Monitoring Program.

(a) A public water system shall submit to the State Board for review, and obtain State Board approval of, a POU Monitoring Program that describes monitoring to be conducted for the contaminant(s) for which the public water system has applied to use POU's, as follows: The POU Monitoring Program shall include the following:

(1) Source water monitoring – quarterly, with samples collected during the same month (first, second, or third) of each calendar quarter;

(2) POU effluent – initially, with samples collected as soon as possible but no later than 72 hours after a device is installed; and

(3) POU effluent – on-going following the monitoring in subsection (a)(2), annually, with one twelfth of all units sampled monthly on a rotating basis. With State Board approval and after completion of one year of monitoring, a public water system may alternatively monitor one quarter of all units each calendar quarter.

(b) For a contaminant other than nitrate, nitrite, nitrate plus nitrite, or perchlorate, after no less than one year of monitoring conducted pursuant to subsection (a), a public water system may apply to the State Board for reduced on-going monitoring if all the results of the on-going monitoring conducted pursuant to subsection (a)(3) do not exceed 75 percent (75%) of a contaminant's MCL.

(c) The State Board may require additional monitoring for the contaminant of concern or other contaminants, including microbial contaminants, based on monitoring results, the health risk associated with the contaminant, POU technology, or a public water system's compliance with this Article.

(d) The public water system shall revise its POU Monitoring Program as necessary based on the on-going operation and maintenance of installed POU's or additional monitoring required pursuant to subsection (c). Revised POU Monitoring Programs shall be submitted to the State Board for review and may not be implemented without State Board approval.

(e) The public water system shall maintain a copy of and implement the most current State Board-approved version of its POU Monitoring Program prepared pursuant to this section.

(f) If a POU effluent sample result exceeds an MCL for a contaminant other than nitrate, nitrite, nitrate plus nitrite, or perchlorate, the public water system shall:

(1) implement the public notification and alternative water procedures identified in its State Board-approved POU Treatment Strategy;

(2) collect a confirmation sample within seven days of notification of the exceedance.

(g) If a POU effluent sample result exceeds an MCL for nitrate, nitrite, nitrate plus nitrite, or perchlorate:

(1) as soon as possible, but no later than 24 hours following notification of an exceedance, provide each affected customer with alternative water that meets drinking water standards, and

(2) collect a confirmation sample within 72 hours of notification of the exceedance; and

(A) if the confirmation sample, or the average of the original and confirmation sample, exceeds the MCL, notify the State Board within 24 hours of the result, complete corrective actions as soon as possible but within one month of receipt of the result, and increase the monitoring frequency if requested to do so by the State Board.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64418.6 as follows:

§64418.6. Public Hearing and Acceptance.

(a) A community water system shall conduct a customer survey and participate in, and provide information for, a public hearing held by the State Board. At least 30 days prior to placing information into a public repository per subsection (a)(2), the public

water system shall submit a protocol to the State Board for review and approval, describing the public water system's plan to meet the requirements of this section.

(1) Prior to conducting a customer survey, a community water system shall participate in and provide information for a public hearing that, at a minimum, disseminates the following to those in its service area:

(A) A description of the public water system's POU Treatment Strategy;

(B) A description of the adverse health effects, as specified in the appendices to section 64465, associated with the contaminant(s) of concern;

(C) A copy of those portions of the POU Operation and Maintenance Program and Monitoring Program that necessitates customer involvement; ~~and~~

(D) The estimate of any anticipated increase in water bills that may result from utilization of POU's; ~~and~~

(E) The supporting documentation, assumptions, and calculations used to determine any anticipated increase in water bills proposed to be presented at the public hearing.

(2) At least 30 days prior to the public hearing, the community water system shall place the information to be presented at the public hearing into a publicly accessible repository and notify the State Board and those in its service area of the date, time, and location of the public hearing, as well as the location and hours of operation of the repository. If the public water system serves multi-unit residential dwellings including, but not limited to, apartments and residential institutions, whether sub-metered or not, the public water system shall provide notice to each resident of such residential dwellings.

(3) Following the public hearing, the community water system shall deliver a survey to each of its customers. The survey shall be delivered in a manner designed to

reach each customer and in the language appropriate for communication with the customers. The survey shall consist of the following two choices:

(A) "I vote FOR the use of Point-of-Use treatment devices.", and

(B) "I vote AGAINST the use of Point-of-Use treatment devices."

(b) The community water system shall at all times comply with the protocol approved by the State Board pursuant to this section.

(c) Use of POU treatment devices in lieu of centralized treatment shall be considered to have no substantial community opposition if:

(1) the sum of the number of non-voting customers and the number of customers voting against POUs, is less than half of the total customers, and

(2) no more than 25 percent of the total number of customers voted against POUs.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350 and 116552, Health and Safety Code.

Adopt Section 64418.7 as follows:

§64418.7. Recordkeeping and Reporting.

(a) A public water system shall maintain the following records for at least ten years and provide the records to the State Board when requested:

(1) Results of all water quality monitoring conducted pursuant to this Article;

(2) The location and type of each installed POU;

(3) The date and type of maintenance and repairs performed; and

(4) Verbal and written customer complaints received and the resulting corrective actions and/or responses.

(b) A public water system shall report to the State Board, at the frequency noted, the following:

(1) Monthly – treated water quality monitoring results;

(2) Quarterly – source water monitoring results and any investigations and/or corrective action(s) taken to ensure POUs meet the requirements of this Article including, but not limited to, POU maintenance, customer complaints, inspection results, and manufacturer notices pertaining to proper operation of devices.

(c) The reports required pursuant to subsection (b) shall be submitted to the State Board within ten days following the end of the applicable reporting period.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

[Adopt Section 64418.8 as follows:](#)

§64418.8. Compliance.

(a) A public water system using POUs in lieu of centralized treatment shall be in violation of an MCL if:

(1) for all POUs combined, during a 12-month interval more than five percent (5%) of the results of the effluent monitoring conducted pursuant to section 64418.5 exceed an MCL,

(2) for a POU, the effluent fails to meet the MCL, which is determined in accordance with the applicable compliance determination requirements in this Title. Depending on the contaminant and concentration detected, compliance determination

may be based on the result of a single sample, an initial sample averaged with one or two confirmation sample(s), or an average of four quarterly or six monthly samples; or

(3) a building or dwelling unit served by the water system does not have a POU installed pursuant to this Article.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

ARTICLE 2.7. Point-of-Entry Treatment

Adopt Section 64419 as follows:

§64419. Definitions.

“Point-of-entry treatment device” or “POE” means a treatment device applied to the drinking water entering a house or building for the purpose of reducing contaminants in the drinking water distributed throughout the house or building. Notwithstanding the foregoing, where all the water supplied by a public water system for human consumption is treated by the public water system via a single device or facility, regardless of location of the device or facility, the public water system shall be considered to have centralized treatment.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

Adopt Section 64420 as follows:

§64420. General Provisions.

(a) A public water system, except for a proposed new community water system that does not have a domestic water supply permit, may be permitted, consistent with Health and Safety Code section 116380(a), to use POEs in lieu of centralized treatment for the purpose of reducing contaminants to achieve compliance with one or more maximum contaminant levels, action levels, or treatment techniques in this Title and as allowed under the state and federal State Drinking Water Acts if:

(1) the public water system meets the requirements of this Article and any applicable statutory requirements;

(2) the public water system has:

(A) applied for funding from any federal, state, or local agency to correct the system's violations; and

(B) demonstrated to the State Board that centralized treatment for achieving compliance is not immediately economically feasible;

(3) the public water system has applied for a permit or permit amendment to use POEs. The duration of the permit or permit amendment issued will be in accordance with Health and Safety Code section 116552;

(4) for a community water system, following a public hearing, the State Board determines pursuant to section 64420.6 that there is no substantial community opposition;

(5) the public water system has a State Board-approved:

(A) POE Treatment Strategy,

(B) POE Operations and Maintenance Program, and

(C) POE Monitoring Program; and

(6) the public water system ensures that each building connected to the public water system has a POE installed pursuant to this Article.

(b) With State Board approval and without having to meet the requirement of subsection (a)(6), a public water system may utilize POEs in lieu of centralized treatment for the purpose of reducing contaminants to levels at or below one or more of the maximum contaminant levels, action levels, or treatment techniques in this Title, in the water it supplies to some or all of the persons it serves, but the public water system will not be deemed in compliance without meeting the requirement of subsection (a)(6). A public water system's application for a permit to utilize POEs pursuant to this subsection may include a request that one or more of the requirements of this article be

amended or eliminated to address the public water system's specific utilization, and such request may be granted or denied by the State Board.

(c) Funding for centralized treatment is available when funding for centralized treatment, from any source, is received by, or otherwise placed under control of, the public water system.

(d) As used in this article, the estimated cost for both centralized treatment and POE treatment shall be the complete life cycle cost for a similar period of time.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

Adopt Section 64420.1 as follows:

§64420.1. Immediate Economic Feasibility of Centralized Treatment.

(a) To specifically meet the requirements of section 64420 (a)(2)(B), a community water system, when comparing the costs of centralized treatment to the use of POE treatment, shall submit to the State Board information demonstrating that the:

(1) estimated annual cost of centralized treatment, per household, is more than one percent (1%) of the median household income (MHI) of the customers served by the community water system; and

(2) (A) if the community's annual MHI is equal to or less than the statewide annual MHI, the estimated annual cost of centralized treatment, per household, plus the median annual water bill from the most recent 12 months per household is more than 1.5 percent (1.5%) of the annual MHI of the customers served by the community water system, or

(B) if the community's annual MHI is greater than the statewide annual MHI, the estimated annual cost of centralized treatment, per household, plus the

median annual water bill from the most recent 12 months per household is more than two percent (2%) of the annual MHI of the customers served by the community water system.

(b) A noncommunity water system shall submit to the State Board documents that demonstrate that centralized treatment is not immediately economically feasible.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64420.2 as follows:

§64420.2. POE Requirements.

(a) Each POE must:

(1) Be independently certified in accordance with an American National Standard Institute (ANSI) standard that is applicable to the specific type of proposed POE and that adequately addresses a California drinking water standard ; or

(2) Be approved by the State Board, following a review of, including but not limited to the POE unit's design, construction, treatment performance, and available field or pilot test results.

(3) Be owned, controlled, operated, and maintained by the public water system and/or a person(s) under contract with the public water system, to ensure proper operation, maintenance, monitoring, and compliance with this Article and applicable drinking water standards;

(4) Be equipped with a mechanical warning (e.g. alarm, light, etc.) that alerts users when a unit needs maintenance or is no longer operating in a manner that assures the unit is producing effluent meeting state and federal drinking water

standards, unless the device is equipped with an automatic shut-off mechanism that prevents the flow of water under such circumstances; and

(5) Be equipped with a totalizing flow meter.

(b) Except as provided in subsection (c), pilot testing shall be performed by the public water system, and/or a person(s) under contract with the public water system, on each proposed type of POE to establish its use limitations and operations and maintenance criteria, as well as verification that it will produce effluent that meets applicable drinking water standards under local expected influent water quality and flow conditions.

(1) Prior to performing pilot testing, a pilot testing protocol shall be submitted to the State Board for review and the public water system shall obtain State Board approval of the protocol.

(2) Pilot testing for a POE shall be conducted in the manner and for the time period specified by the pilot testing protocol for that POE, and shall be conducted for no less than two months.

(3) After completion of the pilot testing, the public water system shall submit a report to the State Board describing the results and findings of the pilot testing.

(c) With State Board approval, a public water system may be exempt from, or be subject to a reduced level of, pilot testing required pursuant to subsection (b) if the public water system demonstrates to the State Board that the POEs proposed for use have been tested, by the public water system or another person, under equivalent water quality and flow conditions, and the limitations, criteria, and effluent verification in subsection (b) can be ascertained and have been reported to the State Board.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, 116552 and 116835, Health and Safety Code.

Adopt Section 64420.3 as follows:

§64420.3. POE Treatment Strategy.

(a) Prior to installing POEs, a public water system shall submit a POE Treatment Strategy for State Board review and obtain State Board approval of the Strategy. At a minimum, the POE Treatment Strategy shall include each of the following:

(1) A description of the compliance issues for which POEs are being proposed to address and how the use of POEs will achieve compliance;

(2) A description of how the public water system will determine the type, number, and location of POEs to ensure POEs serve, in their entirety, each building connected to the public water system;

(3) The public water system's authority to require customers to accept POEs in lieu of centralized treatment and to take an action, such as discontinuing service, if a customer fails to accept POEs, or disconnects or modifies a POE installed pursuant to this Article;

(4) The basis for the POE selection(s);

(5) The qualifications and identification of the person(s) responsible for POE installation, operation, maintenance, and water quality sampling and analyses;

(6) A customer education program to be implemented prior to and following installation of POEs;

(7) The authority, ordinances, and/or access agreements that allow the public water system's representatives access to customers' premises for POE installation, maintenance, and water quality monitoring, as well as the surveys necessary to meet subsection (a)(2);

(8) Identification of applicable local regulatory requirements;

(9) A consumer notification protocol to be implemented in the event an installed POE fails to produce water that meets drinking water standards. The protocol shall include:

(A) An example of a notice that includes the requirements of Article 18 of this Chapter Title, and

(B) a plan for provision of an alternative water supply, meeting drinking water standards, to the customers served by each the installed POE not meeting drinking water standards;

(10) A customer notification protocol for routine notifications that includes examples of quarterly (or more frequent) notices, in the appropriate language(s), that informs customers:

(A) which water supplies are not treated by the POEs, and

(B) regarding the mechanical warning or shut-off mechanism required pursuant to section 64420.2(a)(5), including a telephone number that connects the customer to water system personnel or recording system that shall be accessible by water system personnel 24-hours a day, seven days a week, for the purpose of providing the customer a reliable means of notifying personnel when the mechanical warning or shut-off mechanism is activated;

(11) The anticipated schedules for:

(A) the distribution of public hearing information,

(B) the public hearing required pursuant to section 64420.6,

(C) the distribution to customers of POE acceptance surveys,

(D) POE installation, and

(E) the construction of centralized treatment;

(12) An estimate of the percent of all customers within the public water system's service area who are expected to voluntarily allow installation of POE devices, as well as a description of how the public water system will address customers who do not; and

(13) The means for ensuring that the rights and responsibilities of the customer, with respect to an installed POE, convey with title upon the sale or transfer of property to which the POE is attached.

(b) A public water system shall comply with the most current State Board-approved version of its POE treatment strategy at all times.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64420.4 as follows:

§64420.4. POE Operations and Maintenance (O&M) Program.

(a) Prior to installing POEs, a public water system shall submit a POE Operations and Maintenance (O&M) Program for State Board review and obtain State Board approval of the O&M Program. The POE O&M Program shall include the following:

(1) An installation protocol that, at a minimum, describes locations and assurances that POEs will be accessible for operation and maintenance;

(2) The type and frequency of maintenance, at intervals specified by the manufacturer and determined by pilot testing, whichever is shorter, that ensures POEs produce effluent that meets drinking water standards;

(3) The number and type of auxiliary POEs and parts necessary to ensure continuous effective treatment;

(4) Replacement schedules for critical components and POEs;

(5) The qualifications and identification of the person(s) responsible for POE installation, operation, and maintenance; and

(6) POE waste-handling and disposal procedures.

(b) To ensure a POE is properly operating and has not been bypassed, POEs shall be inspected by the public water system no less often than every twelve months and when a POE's effluent is monitored pursuant to section 64420.5.

(c) Based on the on-going operation and maintenance of installed POEs, a public water system shall revise its POE O&M Program as necessary to ensure continuous effective treatment and that POEs produce effluent that meets drinking water standards. Revised POE O&M Programs shall be submitted to the State Board for review and may not be implemented without State Board approval.

(d) A public water system shall maintain a copy of and implement the most current State Board-approved version of its POE O&M Program.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64420.5 as follows:

§64420.5. POE Monitoring Program.

(a) A public water system shall submit to the State Board for review, and obtain State Board approval of, a POE Monitoring Program that describes monitoring to be conducted for the contaminant(s) for which the public water system has applied to use POEs, as follows. The POE Monitoring Program shall include the following:

(1) Source water monitoring – quarterly, with samples collected during the same month (first, second, or third) of each calendar quarter;

(2) POE effluent – initially, with samples collected as soon as possible but no later than 72 hours after a device is installed; and

(3) POE effluent, on-going following the monitoring in subsection (a)(2), annually, with one twelfth of all units sampled monthly on a rotating basis. With State Board approval and after completion of one year of monitoring, a public water system may alternatively monitor one quarter of all units each calendar quarter.

(b) For a contaminant other than nitrate, nitrite, nitrate plus nitrite, or perchlorate, after no less than one year of monitoring conducted pursuant to subsection (a), a public water system may apply to the State Board for reduced on-going monitoring if all the results of the on-going monitoring conducted pursuant to subsection (a)(3) do not exceed 75 percent (75%) of a contaminant's MCL.

(c) The State Board may require additional monitoring for the contaminant of concern or other contaminants, including microbial contaminants, based on monitoring results, the health risk associated with the contaminant, POE technology, or a public water system's compliance with this Article.

(d) The public water system shall revise its POE Monitoring Program as necessary based on the on-going operation and maintenance of installed POEs or additional monitoring required pursuant to subsection (c). Revised POE Monitoring Programs shall be submitted to the State Board for review and may not be implemented without State Board approval.

(e) The public water system shall maintain a copy of and implement the most current State Board-approved version of its POE Monitoring Program prepared pursuant to this section.

(f) If a POE effluent sample result exceeds an MCL for a contaminant other than nitrate, nitrite, nitrate plus nitrite, or perchlorate, the public water system shall:

(1) implement the public notification and alternative water procedures identified in its State Board-approved POE Treatment Strategy;

(2) collect a confirmation sample within seven days of notification of the exceedance;

(g) If a POE effluent sample result exceeds an MCL for nitrate, nitrite, nitrate plus nitrite, or perchlorate;

(1) as soon as possible, but no later than 24 hours following notification of an exceedance, provide each affected customer with alternative water that meets drinking water standards, and

(2) collect a confirmation sample within 72 hours of notification of the exceedance; and

(A) if the confirmation sample, or the average of the original and confirmation sample, exceeds the MCL, notify the State Board within 24 hours of the result, complete corrective actions as soon as possible but within one month of receipt of the result, and increase the monitoring frequency if requested to do so by the State Board.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380, and 116552 Health and Safety Code.

Adopt Section 64420.6 as follows:

§64420.6. Public Hearing and Acceptance.

(a) A community water system shall conduct a customer survey and participate in, and provide information for, a public hearing held by the State Board. At least 30 days prior to placing information into a public repository per subsection (a)(2), the public

water system shall submit a protocol, to the State Board for review and approval, describing the public water system's plan to meet the requirements of this section.

(1) Prior to conducting a customer survey, a community water system shall participate in and provide information for a public hearing that, at a minimum, disseminates the following to those in its service area:

(A) A description of the public water system's POE Treatment Strategy;

(B) The adverse health effects, as specified in the appendices to section 64465, associated with the contaminant(s) of concern;

(C) POE Operation and Maintenance Program and Monitoring Program information that necessitates customer involvement; ~~and~~

(D) The estimate of any anticipated increase in water bills that may result from utilization of POEs; and

(E) The supporting documentation, assumptions, and calculations used to determine any anticipated increase in water bills proposed to be presented at the public hearing.

(2) At least 30 days prior to the public hearing, the community water system shall place the information to be presented at the public hearing into a publicly accessible repository and notify the State Board and those in its service area of the date, time, and location of the public hearing, as well as the location and hours of operation of the repository. If the public water system serves multi-unit residential dwellings including, but not limited to, apartments and residential institutions, whether sub-metered or not, the public water system shall provide notice to each resident of such residential dwellings.

(3) Following the public hearing, the community water system shall deliver a survey to each of its customers. The survey shall be delivered in a manner designed to

reach each customer and in the language appropriate for communication with the customers. The survey shall consist of the following two choices:

(A) "I vote FOR the use of Point-of-Entry treatment devices.", and

(B) "I vote AGAINST the use of Point-of-Entry treatment devices."

(b) The community water system shall at all times comply with the protocol approved by the State Board pursuant to this section.

(c) Use of POE treatment devices in lieu of centralized treatment shall be considered to have no substantial community opposition if:

(1) the sum of the number of non-voting customers and the number of customers voting against POEs, is less than half of the total customers, and

(2) no more than 25 percent of the total number of customers voted against POEs.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

Adopt Section 64420.7 as follows:

§64420.7. Recordkeeping and Reporting.

(a) A public water system shall maintain the following records for at least ten years and provide the records to the State Board when requested:

(1) Results of all water quality monitoring conducted pursuant to this Article;

(2) The location and type of each installed POE;

(3) The date and type of maintenance and repairs performed; and

(4) Verbal and written customer complaints received and the resulting corrective actions and/or responses.

(b) A public water system shall report to the State Board, at the frequency noted, the following:

(1) Monthly – treated water quality monitoring results;

(2) Quarterly – source water monitoring results and any investigations and/or corrective action(s) taken to ensure POEs meet the requirements of this Article including, but not limited to, POE maintenance, customer complaints, inspection results, and manufacturer notices pertaining to proper operation of devices.

(c) The reports required pursuant to subsection (b) shall be submitted to the State Board within ten days following the applicable reporting period.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code. Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.

[Adopt Section 64420.8 as follows:](#)

§64420.8. Compliance.

(a) A public water system using POEs in lieu of centralized treatment shall be in violation of an MCL if:

(1) for all POEs combined, during a 12-month interval more than five percent (5%) of the results of the effluent monitoring conducted pursuant to section 64420.5 exceed an MCL,

(2) for a POE, the effluent fails to meet the MCL, which is determined in accordance with the applicable compliance determination requirements in this Title. Depending on the contaminant and concentration detected, compliance determination may be based on the result of a single sample, an initial sample averaged with one or two confirmation sample(s), or an average of four quarterly or six monthly samples; or

(3) a building or dwelling unit served by the water system does not have a
POE installed pursuant to this Article.

NOTE: Authority cited: Sections 116271, 116350 and 116375, Health and Safety Code.
Reference: Sections 116325, 116350, 116380 and 116552, Health and Safety Code.