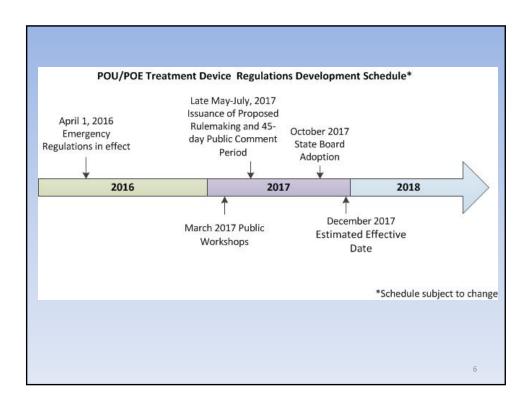


Outline

- Process for Adoption of Regulations
- Proposed Draft Regulations
 - Requirements
- POU/POE Treatment Device Requirements
- Questions/Solicit Input

Regulations - Statutory Authority

- Emergency regulations previously adopted 2010 (POU) and 2011 (POE), expired January 1, 2014
- 2014-2015: Underlying law remained in place
- AB 434 (2015) amended the law to require the State Water Board to adopt POU/POE regulations
 - Emergency Regulations went into effect April 1, 2016
 - Regular regulations effective by January 1, 2018



Emergency Regulations in place

- California Code of Regulations (CCR), Title 22, Sections 64417, 64418, 64418.1, 64418.2, 64418.3, 64418.4, 64418.5, 64418.6, 64418.7, 64419, 64420, 64420.1, 64420.2, 64420.3, 64420.4, 64420.5, 64420.6, and 64420.7
- Link to regulations at:

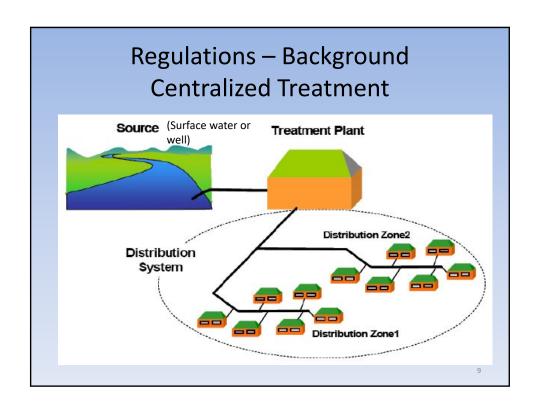
http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/PO EandPOUTreatment.shtml

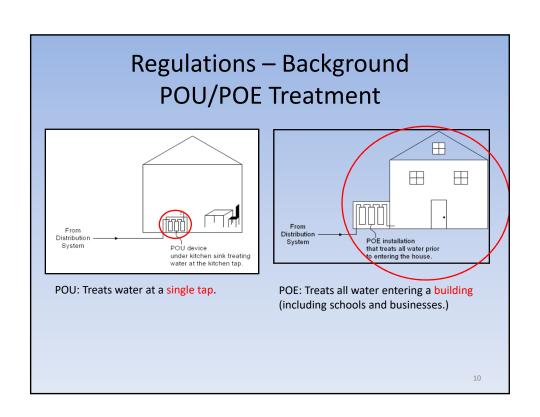
• Google "California POU emergency regulations"

7

Regulations - Background

- Federal requirements: law, regulations and guidance
- AB 434 (Health and Safety Code (H&SC))
- Experience gained implementing emergency regulations
- Input from public workshops





Requirements (POU and POE)

- 1. Public Water System (PWS) must have fewer than 200 service connections. Health & Safety Code 116380
- 2. PWS must demonstrate that centralized treatment isn't economically feasible Health & Safety Code 116380
- 3. POUs cannot be used for microbials, volatile organic compounds, or radon. US Safe Drinking Water Act (SDWA) for microbials. US EPA guidance for VOC/radon.
- 4. PWS must have submitted application for funding. Health & Safety Code 116380
- PWS must demonstrate no substantial community opposition and must have a public hearing.
 Health & Safety Code 116552
- 6. Generally, POUs/POEs must be third-party certified to the applicable American National Standards Institute (ANSI) standard, if one exists. US SDWA
- 7. PWS must have programs/plans in place for assuring safe and effective use of POUs/POEs. Federal guidance

11

Requirements (POU and POE) continued

- 8. POU/POE must be owned, controlled, and maintained by PWS. US SDWA
- 9. POUs/POEs must be equipped with mechanical warnings to ensure that customers are automatically notified of operational problems. US SDWA
- 10. For POEs, every building connected to the PWS must have a POE installed, and that the rights and responsibilities of the customer convey with title upon sale of the property. Federal regulations CFR 141.100
- 11. For POUs, the PWS must ensure that each residential unit, dwelling unit, ... served by the water system has a POU installed pursuant to the regulations. US SDWA
- 12. The issuance of a permit shall be limited to not more than three years or until funding for centralized treatment is available, whichever occurs first. Health & Safety Code 116552
- 13. Pilot testing shall be performed on each proposed type of POU/POE for at least 2 months.
- 14. All devices shall be monitored annually after initial monitoring. After 1 year of monitoring, PWS can apply for a reduction in monitoring if the results meet certain criteria.

Economic Feasibility Requirements

The water system must demonstrate to the State Board that centralized treatment for achieving compliance is not economically feasible:

- 1. Estimated 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; or
- 2. Estimated cost of centralized treatment, per household, plus the median water bill from the most recent 12 months is:
 - a. If the community's MHI is equal to or less than the statewide MHI, more than 1.5 % of the MHI of customers served
 - b. If the community's MHI is greater than the statewide MHI, more than 2 % of the MHI of customers served
- 3. The estimated cost of centralized treatment may include, but is not limited to, the costs associated with equipment, design and construction, residual disposal, monitoring, and operation and maintenance.
- 4. A non-community water system shall submit to the State Board documents that demonstrate that the water system does not have the financial resources for the cost of centralized treatment.

13

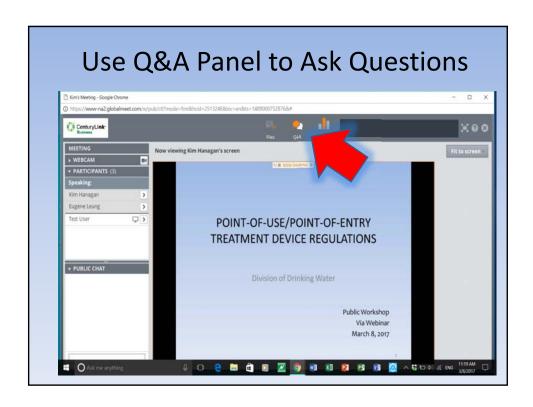
Public Hearing and Acceptance Requirements

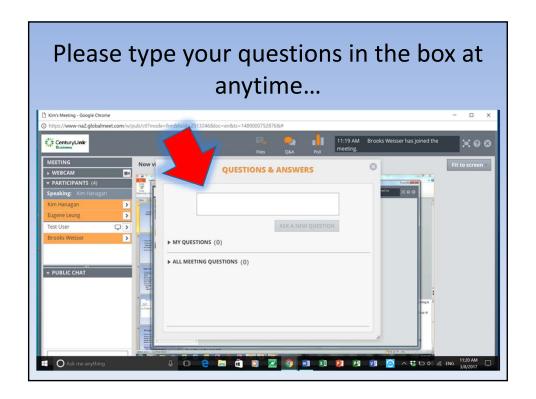
A PWS shall conduct a customer survey and participate in, and provide information for, a public hearing held by the State Board:

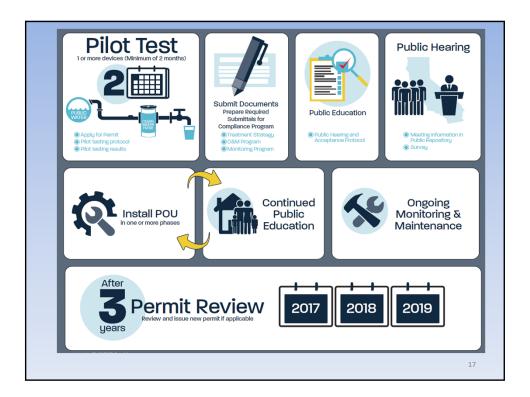
- 1. At least 30 days prior to initiating the activities required in Section 64418.6, the water system shall submit a protocol to the State Board for review and approval, describing the water system's plan to meet the requirements of the section.
- 2. Prior to conducting a customer survey, the following information should be disseminated at a public hearing:

Description of the Treatment Strategy, adverse health effects associated with contaminant(s) of concern, O&M Program and Monitoring Program information that necessitates customer involvement, and estimate of any anticipated increase in water bills that may result from utilization of POU/POEs

- 3. Following public hearing, the PWS shall survey all of its customers. No substantial community opposition if:
 - a. #non-voting customers + # voting against POU/POE is less than half of total # customers
 - b. No more than 25% of total customers voted against POU/POE







What is 'New' in Proposed Regular Regulations

- Clarification regarding "apply for funding"
- HSC 116380 states:
- (a) The State Water Resources Control Board shall adopt regulations governing the use of point-of-entry and point-of-use treatment by public water systems in lieu of centralized treatment where it can be demonstrated that centralized treatment is not immediately economically feasible, limited to the following:
 - ...(3) Water systems that have <u>submitted applications for funding to</u> correct the violations for which the point-of-entry and point-of-use treatment is provided.

What is 'New' in Proposed Regular Regulations (cont'd)

- Insert new text as section 64418(a)(2)
- "The public water system has applied for funding from the State Water Resources Control Board"

19

POU Device Requirements

- Review specific requirements
- Example: Hexavalent chromium

§64418.2. POU Requirements

- (a) As ensured by the public water system, each POU shall:
 - (1) If the American National Standard Institute (ANSI) has issued a product standard applicable to the specific type of POU, be independently certified in accordance with the standard;
 - (2) If ANSI has not issued a product standard applicable to the specific type of proposed POU, be approved by the State Board;

21

§64418.2. POU Requirements (cont'd)

- (3) If an ANSI-issued standard does not adequately address a California drinking water standard or if a POU has not been independently certified for a specific contaminant, be approved by the State Board;
- (4) Be owned, controlled, operated, and maintained by the public water system and/or a person(s) under contract with the water system, to ensure proper operation, maintenance, monitoring, and compliance with this Article and applicable drinking water standards;

§64418.2. POU Requirements (cont'd)

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

23

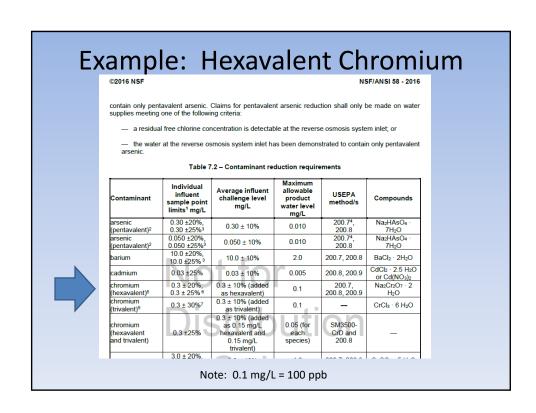
http://www.waterboards.ca.gov/drinking water/certlic/device/watertreatmentdevices.shtml

Current Listing of Registered Devices

Here is the current listing of devices registered for sale in California: Registered Water Treatment Devices as of February 21, 2017

Here are current listings of devices that reduce arsenic and nitrates that are registered for sale in California. The lists include links to Performance Data Sheets received to date.

- Arsenic: Registered Water Treatment Devices as of May 5, 2016
- Chromium: Registered Water Treatment Devices as of March 01, 2017
- <u>Lead: Registered Water Treatment Devices</u> as of March 01, 2017
- Nitrate: Registered Water Treatment Devices as of May 5, 2016



Evample	e: Hexavalent Chro	าท	aii	ın	1
LAGITIPI	e. Hexavaletti Cili	ノロ	111	411	•
•					
Cert # Manufacturer	Model	Percent Reduction		Effluer	nt mg/L
		Cr. VI	Cr. III	Cr. VI	Cr. II
1815 3M Purification Inc.	Aqua-Pure APRO5500				
2015 3M Purification Inc.	3MRO401	99.5	99.1	0.005	0.00
2034 3M Purification Inc.	SQC-VIRO-4	99.5	99.1	0.005	0.00
2202 3M Purification Inc.	4 US-RO-SO1	97.2	96.7	0.008	0.01
3037 American Plumber	WRO-2550	91.20%	94.80%	0.026	0.016
3003 Ameriflow Water Systems Inc	KR10		98.5		0.005
3004 Ameriflow Water Systems Inc	KR15		98.5		0.005
3173 Aquasana, Inc	AQ-RO-3	0.009	0.01		
3029 Clack Corporation	T.F.C335	96%	98%	0.012	0.006
3030 Clack Corporation	T.F.C435	96%	98%	0.012	0.000
2077 Coway Co Ltd.	Bikal P-09CRA	98.50%	98.80%	0.005	0.005
2194 Coway Co Ltd.	P-300L	98.60%	99.40%	0.004	0.002
2195 Coway Co Ltd.	CHP-06EL	98.60%	99.40%	0.004	0.002
2198 Coway Co Ltd.	P-07QL	98.60%	99.40%	0.004	0.002
2199 Coway Co Ltd.	Petit CHP-06DL	98.60%	99.40%	0.004	0.002
2200 Coway Co Ltd.	CHP-03AL	98.60%	99.40%	0.004	0.002
2201 Coway Co Ltd. 2193 Coway Co Ltd.	CHP-250L CHPI-08BL	98.60%	99.40%	0.004	0.002
2204 Coway Co Ltd.	CHP-04AL	98.60%	99.40%	0.004	0.002
3107 Coway Co Ltd.	P-09CI	98.60%	99,40%	0.004	0.002
3188 Coway Co. Ltd	P-150I	98.60%	99.40%	0.004	0.002
3190 Coway Co. Ltd.	CHPI-280L	98.60%	99,40%	0.004	0.002
3191 Coway Co. Ltd.	CHP-590L	98.60%	99,40%	0.004	0.002
3192 Coway Co. Ltd.	CHP-671L	98.60%	99,40%	0.004	0.002
1747 Culligan International Company	AC-30 2 gal, AC-30M 3 gal, AC-30L 9 gal, AC-30 Plus 2 gal w/PID, AC-30M Plus 3 gal w/PID, AC-30		98.6	0.02	0.004
1901b Culligan International Company	Good Water Machine AC-30M	92.5	98.6	0.02	0.004
1901a Culligan International Company	Good Water Machine AC-30M Plus	92.5	98.6	0.02	0.004
1900a Culligan International Company	Good Water Machine AC-30	92.5	98.6	0.02	0.004
1900b Culligan International Company	Good Water Machine AC-30 PLUS	92.5	98,6	0.02	0.004
1909a Culligan International Company	Good Water Machine AC-30L	92.5	98.6	0.02	0.004
1909b Culligan International Company	Good Water Machine AC-30L PLUS	92.5	98.6	0.02	0.004
1928 Culligan International Company	Culligan International CompanyAqua-Cleer Advanced Drinking Water System with RO30	96.4	98.5	0.014	0.007
1944 Culligan International Company	Culligan International Company Aqua-Cleer Advanced Drinking Water System with RO30 and TD	96.4	98.5	0.014	0.007
1948 Culligan International Company	Culligan International Company Aqua Cleer Advanced Drinking Water System with RO30 and AS	96.4	98.5	0.011	0.005
1949 Culligan International Company	Culligan International Company Aqua Cleer Advanced Drinking Water System with RO30, TD and	96.4	98.5	0.014	0.007
1954 Culligan International Company	Culligan International Company Aqua-Cleer Advanced Drinking Water System with RO30	96.4	98.5	0.014	0.007
1955 Culligan International Company	Culligan International Company Aqua-Cleer Advanced Drinking Water System with RO30	96.4	98.5	0.014	0.007
1958 Culligan International Company	Culligan International Company Aqua-Cleer Advanced Drinking Water System with RO30 and TD	96.4	98.5	0.014	0.00
1959 Culligan International Company	Cullings International Company Agua Clear Advanced Drinking Water Surtem with PO20 and TD	96.4	99.5	0.014	0.00

Summary

- Centralized treatment where economically feasible
- POU/POE can provide safe drinking water when centralized treatment not economically feasible
- Proposed regular regulations are substantially the same as emergency regulations
- POU/POE can be used for purposes other than compliance

27

STAY INFORMED

The Division of Drinking Water uses subscription email lists to notify interested parties of upcoming activities related to the development of new drinking water-related regulations. You may subscribe to a list to receive information about upcoming drinking water regulations by following these steps:

 $\underline{\text{http://www.waterboards.ca.gov/resources/email } \text{subscriptions}}$

- -Select "State Water Resources Control Board"
- -Fill in the contact information with your email address and full name
- -Select the category "Drinking Water" and then select the first box "Drinking Water Program Announcements"

-Click "subscribe"

Solicit Input

Questions? Comments?

- Not official public comments...sign up for email notification
- How will we follow up?
- Link to regulations (and presentation) at:
 http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/PO_EandPOUTreatment.shtml
 - Or, Google "California POU emergency regulations"
- Please direct all questions regarding these workshops to the following email address: <u>DDWRegUnit@waterboards.ca.gov</u>