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Title 22@ Social Security

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Division 4@ Environmental Health

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Chapter 15.5@ Disinfectant Residuals, Disinfection Byproducts, and Disinfection Byproduct Precursors

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Article 5@ Treatment Technique for Control of Disinfection Byproduct Precursors (Dbpp)

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Section 64536@ Alternative Compliance Criteria to the Enhanced Coagulation and Enhanced Softening Performance Requirements

64536 Alternative Compliance Criteria to the Enhanced Coagulation and Enhanced Softening Performance Requirements

(a)

Systems using approved surface water and conventional filtration treatment shall meet any one of the alternative compliance criteria in paragraphs (1) through (6) to comply with this article or comply with the requirements of section 64536.2. Systems that meet one of the criteria in paragraphs (1) through (6) shall still comply with monitoring requirements in section 64534.6. (1) The system's source water TOC level is less than 2.0 mg/L, calculated quarterly as a running annual average. (2) The system's treated water TOC level is less than 2.0 mg/L, calculated quarterly as a running annual average. (3) The system's source water TOC level is less than 4.0 mg/L, calculated quarterly as a running annual average; the source water alkalinity is greater than 60 mg/L (as CaCO₃), calculated quarterly as a running annual average; and either (A) The TTHM and HAA5 running annual averages are no greater than 0.040 mg/L and 0.030 mg/L, respectively; or (B) Prior to the applicable compliance date in section 64530(a) or (b), the system has applied to the State Board for the approval of, and committed funds to the installation of, technologies that will limit the levels of TTHM and HAA5 to no more than 0.040 mg/L and 0.030 mg/L, respectively. The application to the State Board shall include a description of the technology to be installed,

evidence of a commitment to complete the installation, such as a signed contract, bid solicitation, or approved bond measure, and a schedule containing milestones and periodic progress reports for installation and operation of the technology.

These technologies shall be installed and operating not later than June 30, 2005.

(4) The TTHM and HAA5 running annual averages are no greater than 0.040 mg/L and 0.030 mg/L, respectively, and the system uses only chlorine for primary disinfection and maintenance of a residual in the distribution system. (5) The system's source water SUVA, prior to any treatment and measured monthly, is less than or equal to 2.0 L/mg-m, calculated quarterly as a running annual average. (6) The system's finished water SUVA, measured monthly, is less than or equal to 2.0 L/mg-m, calculated quarterly as a running annual average.

(1)

The system's source water TOC level is less than 2.0 mg/L, calculated quarterly as a running annual average.

(2)

The system's treated water TOC level is less than 2.0 mg/L, calculated quarterly as a running annual average.

(3)

The system's source water TOC level is less than 4.0 mg/L, calculated quarterly as a running annual average; the source water alkalinity is greater than 60 mg/L (as CaCO₃), calculated quarterly as a running annual average; and either (A) The TTHM and HAA5 running annual averages are no greater than 0.040 mg/L and 0.030 mg/L, respectively; or (B) Prior to the applicable compliance date in section 64530(a) or (b), the system has applied to the State Board for the approval of, and committed funds to the installation of, technologies that will limit the levels of TTHM and HAA5 to no more than 0.040 mg/L and 0.030 mg/L, respectively. The application to the State Board shall

include a description of the technology to be installed, evidence of a commitment to complete the installation, such as a signed contract, bid solicitation, or approved bond measure, and a schedule containing milestones and periodic progress reports for installation and operation of the technology. These technologies shall be installed and operating not later than June 30, 2005.

(A)

The TTHM and HAA5 running annual averages are no greater than 0.040 mg/L and 0.030 mg/L, respectively; or

(B)

Prior to the applicable compliance date in section 64530(a) or (b), the system has applied to the State Board for the approval of, and committed funds to the installation of, technologies that will limit the levels of TTHM and HAA5 to no more than 0.040 mg/L and 0.030 mg/L, respectively. The application to the State Board shall include a description of the technology to be installed, evidence of a commitment to complete the installation, such as a signed contract, bid solicitation, or approved bond measure, and a schedule containing milestones and periodic progress reports for installation and operation of the technology.

These technologies shall be installed and operating not later than June 30, 2005.

(4)

The TTHM and HAA5 running annual averages are no greater than 0.040 mg/L and 0.030 mg/L, respectively, and the system uses only chlorine for primary disinfection and maintenance of a residual in the distribution system.

(5)

The system's source water SUVA, prior to any treatment and measured monthly, is less than or equal to 2.0 L/mg-m, calculated quarterly as a running annual average.

(6)

The system's finished water SUVA, measured monthly, is less than or equal to 2.0

L/mg-m, calculated quarterly as a running annual average.

(b)

Systems using approved surface water and conventional filtration treatment and practicing softening that cannot achieve the TOC removal required by section 64536.2(a) shall meet any one of the criteria in paragraphs (1) through (2) below or any one of the criteria in section 64536(a), paragraphs (1) through (6) to comply with this article. Systems that meet one of the criteria in paragraphs (1) through (2) below or one of the criteria in section 64536(a), paragraphs (1) through (6) shall still comply with the monitoring requirements in section 64534.6. (1) Softening that results in lowering the treated water alkalinity to less than 60 mg/L (as CaCO_3), measured monthly and calculated quarterly as a running annual average; or (2) Softening that results in removing at least 10 mg/L of magnesium hardness (as CaCO_3), measured monthly and calculated quarterly as an annual running average.

(1)

Softening that results in lowering the treated water alkalinity to less than 60 mg/L (as CaCO_3), measured monthly and calculated quarterly as a running annual average; or

(2)

Softening that results in removing at least 10 mg/L of magnesium hardness (as CaCO_3), measured monthly and calculated quarterly as an annual running average.