

Title 15 – Mississippi State Department of Health

Part IV – Office of Health Services

Subpart 15 – State Dental Director

CHAPTER 01 MISSISSIPPI WATER FLUORIDATION TESTING AND REPORTING REGULATION

100 GENERAL PROVISION

100.01 **Coverage.** This regulation shall apply to each public water system in the State that provides drinking water to a resident of Mississippi if, at any time during the calendar year, the public water system adjusts the natural fluoride content of drinking water provided to customers of the water system.

100.02 **Definitions.**

1. **Adjusted fluoridated water system** shall mean a public water system that adjusts the fluoride concentration in the drinking water to the optimal level for consumption (within the recommended control range).
2. **Department** shall mean the Mississippi State Department of Health.
3. **Entry point** shall mean as a location where fluoride is injected into the public water system.
4. **Natural fluoride content** shall mean the concentration of fluoride in milligrams per liter (mg/L) that is present in the water source from naturally occurring fluoride sources.
5. **Optimal fluoride level** in Mississippi shall mean the amount of fluoride in water that is found naturally or adjusted within a recommended control range of 0.7 - 1.3 parts per million fluoride (ppm) with the optimal fluoride level being 0.8 ppm.
6. **Parts per million** shall mean a unit of measurement that is equivalent to 1 milligram per liter (mg/L) whereas the density of the liquid measured is 1.0 grams per cubic centimeter (i.e. the density of water is 1.0).
7. **Public water system (PWS)** means a system for the provision to the public of water for human consumption through pipes or, after August 5, 1998, other constructed conveyances, if such system has a least fifteen service connections or regularly serves an average of at least twenty-five individuals daily at least 60 days out of the year.

8. **Raw water** is defined as water that has not been treated or had fluoride injected into it by the PWS and that contains only naturally occurring levels of fluoride

101 **ADJUSTED FLUORIDATED WATER SYSTEM REQUIREMENTS**

101.01 **Testing.** A minimum of three (3) water samples shall be taken by designated PWS personnel on different days each week at all entry points and analyzed for fluoride content. At least once each month at each entry point, designated PWS personnel shall divide (split) one sample (hereinafter referred to as the split sample) and have one portion analyzed for fluoride by designated PWS personnel and the other portion analyzed by the Department's laboratory or a private lab certified by the Department for fluoride testing.

101.02 **Verification.** Designated PWS personnel shall use water sample fluoride content results to compare with a calculated fluoride dosage to verify fluoridation program operation. The calculated dosage is defined as the calculated amount of fluoride that has been added to a water system. The calculation is based on the total amount of fluoride (weight) that was added to the water system and the total amount of water (volume) that was produced plus the naturally occurring fluoride at the source.

102 **OPTIMAL FLUORIDATION REQUIREMENTS**

102.01 **Monitoring.**

1. The monthly average fluoride content of all water samples requested in section 101.01 shall have fluoride content within the optimal fluoride control range defined in section 100.02 in at least nine of 12 months during the calendar year.
2. The designated PWS personnel shall collect no less than 13 water samples per month from each entry point for analysis for fluoride.
3. The split sample result determined thru analysis by designated PWS personnel shall agree with the result analyzed by the Department's laboratory or a private lab certified by the Department within a range of +/- 0.2 ppm in at least nine of 12 months during the calendar year.
4. At least 90% of the minimum water samples in section 101.01 shall have fluoride content within the optimal control range in at least nine of 12 months during the calendar year.
5. Items 1 thru 4 above shall occur in at least nine of the same months during the calendar year.
6. Designated PWS personnel shall submit a report of the results of required water sample testing each month to the Department and shall include the type of fluoride chemical used.

102.02 **Quality Acknowledgement.** Each PWS that complies with the optimal fluoridation requirements during a calendar year to the satisfaction of the Department

shall be recognized by the Department pursuant to its health promotion policies and guidelines.

103 **COMPLIANCE AND ENFORCEMENT**

103.01 **Compliance.** PWS that fail to comply with requirements of this regulation must notify customers annually of their failure to comply.

103.02 **Enforcement.** By March 31 of each calendar year, any PWS that fails to comply with the Optimal Fluoridation Requirements during the preceding calendar year shall be required to provide to the Department a written acknowledgement on a form provided by the Department that the PWS customers have been provided written notice of its failure to comply with these rules and regulations with respect to optimal fluoridation testing and operations during the preceding calendar year.

104 **AUTHORITY TO REQUEST RAW WATER SAMPLE**

104.01 **Verification.** The Department shall have the authority to request samples of the PWS raw water source seasonally for fluoride content analysis at the Department's laboratory.