

## SECTION .1400 - FLUORIDATION OF PUBLIC WATER SUPPLIES

Rules .1401 - .1409 of Title 15A Subchapter 18C of the North Carolina Administrative Code (T15A.18C .1401 - .1409); has been transferred and recodified from Rules .0601 - .0609 Title 10 Subchapter 10D of the North Carolina Administrative Code (T10.10D .0601 - .0609), effective April 4, 1990.

### **.1401 POLICY**

Upon receipt of an application from a community water system to fluoridate its water supply, the Department will approve the application provided the rules for fluoridation pursuant to this Section are followed.

*History Note:* Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;  
Amended Eff. September 1, 1990; September 1, 1979.

### **.1402 FORMAL APPLICATION**

- (a) Fluoride shall not be added to a community water system until a formal application has been submitted to and written approval is granted by the Secretary of the Department.
- (b) Such approval will be considered upon written application and after adequate investigation has been made to determine if the policy adopted by the Division has been satisfied and the facilities, their accuracy and the proposed method of control are satisfactory and meet the requirements hereafter stated.
- (c) The application shall include a resolution by the unit of local government or the governing body operating the community water system. The resolution shall state that the local board of health has approved the proposed fluoridation procedure.

*History Note:* Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;  
Amended Eff. July 1, 1993; September 1, 1990; September 1, 1979.

### **.1403 RESOLUTION**

*History Note:* Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;  
Repealed Eff. July 1, 1990 in accordance with G.S. 150B-59(c).

### **.1404 FEEDING EQUIPMENT**

Accurate feeding equipment shall be provided for applying fluoride. Either gravimetric or volumetric dry-feed equipment or positive displacement liquid-feed equipment with accuracy within five percent shall be required.

*History Note:* Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;  
Amended Eff. September 1, 1990.

### **.1405 PROTECTION OF OPERATORS**

- (a) Special precautions shall be taken to protect the operators from inhaling fluoride dust when handling this chemical and while charging the hoppers of the feeders.
- (b) Dry feeders shall be equipped with dust collectors consisting of bag filters operating under positive air pressure and vented to the outside air.
- (c) Each operator who handles fluoride shall be provided with his individual toxic dust respirator to be used only when handling the chemical.
- (d) When liquid or solution feed equipment is used, special precautions against siphonage and improper chemical mixing must be provided after consultation with and approval by the Department.

*History Note:* Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;

*Amended Eff. September 1, 1990.*

**.1406 CONTROL OF TREATMENT PROCESS**

- (a) The treatment process shall result in the adjustment of fluoride ion (F) in the treated water to 1.0 mg/liter.
- (b) A water treatment plant operator, having qualifications acceptable to the controlling health agencies, shall conduct the necessary chemical analyses and supervise application of the fluoride.
- (c) An adequate number of samples shall be collected and analyzed from points before and after fluoridation and from one or more points in the distribution system. The minimum number of control tests and the number of check samples to be collected and submitted to the Division of Laboratory Services shall be determined by the controlling health agencies in each instance.
- (d) The fluoride content of the water shall be determined in accordance with methods in Rule .1508 of this Subchapter.
- (e) Accurate records of the amount of fluoride applied to the water and the results of all fluoride analyses shall be recorded on forms approved by the Department and submitted to the Department weekly.
- (f) The manufacturer shall submit a certified copy of the chemical analysis of the product offered for sale. Test for the purity of the chemical shall include the U.S. Pharmacopoeia tests for heavy metals which are incorporated by reference including any subsequent amendments or editions. A copy is available for inspection at the Department of Environment, Health, and Natural Resources, Division of Environmental Health, Public Water Supply Section, 1330 Saint Mary's Street, Raleigh, North Carolina [NOTE: *The new physical address is Parker Lincoln Building, 2728 Capital Boulevard, Raleigh NC*]. Copies may be obtained from the Division of Consumers Union of U.S., Incorporated, 101 Truman Avenue, Yonkers, New York 10703 at a cost of thirty-nine dollars and ninety-five cents (\$39.95).

*History Note: Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;  
Amended Eff. July 1, 1994; September 1, 1990; December 17, 1979.*

**.1407 APPROVAL MAY BE RESCINDED**

Failure to thoroughly and effectively carry out the requirements governing the application of fluoride, or for other good cause, shall be considered sufficient cause to rescind the approval of the Department and to withdraw the authorization granted for the permission to add fluoride to a community water system.

*History Note: Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;  
Amended Eff. September 1, 1990; September 1, 1979.*

**.1408 SEVERABILITY**

*History Note: Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Readopted Eff. December 5, 1977;  
Repealed Eff. July 1, 1990 in accordance with G.S. 150B-59(c).*

**.1409 REFERENCE RULES**

*History Note: Authority G.S. 130A-316;  
Eff. February 1, 1976;  
Amended Eff. January 1, 1977;  
Readopted Eff. December 5, 1977;  
Amended Eff. December 17, 1979;  
Repealed Eff. September 1, 1990.*