



**IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY ENGINEERING SECTION
CONSTRUCTION PERMIT APPLICATION
SCHEDULE-13d, Fluoridation**

Date Prepared _____
Date Revised _____

Project Name/Description _____

1. Design Data
 - a. Empirical formula of fluoride compound: _____
 - b. Purity of fluoride compound: _____ %; Available fluoride ion _____ %
 - c. Liquid, granular or powdered fluoride: _____
 - d. Type of feeder: _____
 - e. Fluoride content of untreated water: _____ mg/L
 - f. Design fluoride application rate: _____
 - g. Maximum feed rate: _____ gal/day
 - h. Range of feed adjustment: _____ Feeder Accuracy: _____
 - i. Describe the fluoride feeder control system: _____

2. What precautions have been taken to protect the operator and plant facilities against the corrosive atmosphere of fluoride gases and dust?

3. For the following, reference the page of the plans or specifications where the description can be found.

Materials and Construction Details	Plan or Specification Page Number
Solution Tank	
Mechanical Mixer	
Liquid Level Indicator	
Weighing Scale	
Antisiphon Device	
Chemical Feed Line	
Protective Equipment	
Fluoride Test Equipment	

4. If a fluoride saturator is provided: N/A
 - a. Is it equipped with a float control and water meter on the water service line? Yes No
 - b. Type of backflow prevention device on the water service line:

5. Describe specified procedures for transferring fluoride acid from drum to solution tank: N/A

Spec. Page No. _____

6. Cross connection control at the solution tanks is provided by:

Spec. Page No. _____

7. How and where will the fluoride chemical be stored so that it will not be accessible to the public or misidentified with other chemicals?
