



IOWA DEPARTMENT OF NATURAL RESOURCES  
 WATER SUPPLY ENGINEERING SECTION  
**CONSTRUCTION PERMIT APPLICATION**  
 SCHEDULE-13c, Gas Chlorination

Date Prepared _____	Project Name/Description
Date Revised _____	

1.  Gas Chlorination       Chlorine Dioxide
2. Detention time of chlorinated water: prior to leaving the water treatment plant: \_\_\_\_\_ minutes;  
 Detention time of chlorinated water: prior to reaching the first user: \_\_\_\_\_ minutes

3. Design Data:

Type of Feeder		
Max. Feed Rate (mg/L as Cl)		
Range of Feed Adjustment		

4. 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
Cylinder Handling	
Cylinder Scale	
Feed Line	
Leak Detection	
Chlorine Gas Feed & Storage Room	
Vents & Louvers	
Blower & Light Switch Outside Chlorine Room	
Temperature Control	
Room Drainage	
Shatter Resistant Inspection Window	
Access to Chlorine Room	

5. Describe the control system for the chlorinator (including on/off, rate adjustment, etc.):

Spec. Page No. \_\_\_\_\_

6. Provide the maximum discharge pressure for any chlorine booster pump: \_\_\_\_\_ psi       N/A
7. If gas chlorine is piped outside the room, what special pipe construction is provided outside the feed room?  N/A

Spec. Page No. \_\_\_\_\_

8. If a vacuum gas chlorinator is provided and chlorine gas is injected into a water line which does not carry positive water pressure at all times, what provision has been made to assure that chlorine will not inadvertently escape through the water line?  N/A

Spec. Page No. \_\_\_\_\_

9. Describe the type and location of the self-contained breathing apparatus provided and length of time an air supply can be provided: \_\_\_\_\_

Spec. Page No. \_\_\_\_\_

10. What type of cylinder repair kit has been provided for ton cylinders?

Spec. Page No. \_\_\_\_\_

11. Are all full and empty chlorine cylinders stored in the same room as the chlorine feeders?       Yes       No

**If no**, describe the separate storage area: \_\_\_\_\_

12. Are the walls, ceiling and floor of all gas chlorine rooms fire resistant and sealed to prevent leakage of chlorine gas through them?  Yes       No