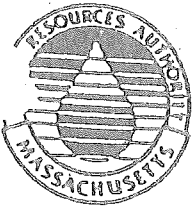


**Appendix F**  
**Policies and Procedures for the Chlorination/Disinfection of**  
**the Pipelines**





## POLICY AND PROCEDURES FOR THE CHLORINATION/DISINFECTION OF PIPELINES (P-II.L.4.)

Effective Date: March 27, 1990

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### PURPOSE:

The purpose of this policy is to formalize established practices of the Massachusetts Water Resources Authority to assure that proper chlorination/disinfection methods are used when disinfecting newly installed or repaired pipelines used to convey potable water. The Water Quality Section of the Waterworks Division shall approve the methods to be used for disinfecting all newly installed and repaired water mains.

### POLICIES AND PROCEDURES:

Chlorination of pipelines within the Waterworks system will be done in accordance with the American Water Works Association's "Standard Specification C651-86 for Disinfecting Water Mains." This applies to newly installed pipes or those that have been repaired either through scheduled maintenance or emergency repair. The disinfection of pipelines for new construction constitutes the last field step in accepting the project as substantially complete. Approval of procedures for disinfection is solely by the Superintendent of the Water Quality Section, or his/her designee.

The Water Quality Section is responsible for designating the dosage, reviewing procedures for disinfection, and performing necessary water quality tests for disinfection according to Public Health Standards. The Contractor or Waterworks Division Operating Department shall give 48-hour notice to the Superintendent of the Water Quality Section, including information on the length and diameter of the pipe and other pertinent information. Contractors or the Division's operating sections will provide personnel, tools, and chemicals needed to perform chlorination and disinfection. Only the Superintendent in the Water Quality Section, or designee, has the authority to certify that a pipeline within the water system can be activated for use.

POLICY AND PROCEDURES FOR THE CHLORINATION/DISINFECTION OF  
PIPELINES (P-II.L.4.) (Page Two)

Copies of the attached form "Record of Pipeline Disinfection"  
will be distributed as follows:

1. Water Quality Section Records
2. Requesting Party (Distribution, Transmission, or  
MECD Construction)
3. Department Director files  
(Retention period not to exceed 2 years)

Developed by: Thomas B. [Signature] Date 27 Mar 90

Reviewed by: [Signature] 5-21-92  
Division/Unit Director

Reviewed by: Sandra Vythkoene 5/21/92  
Internal Audit Unit

Approved by: Marcia Molay 5/25/92  
Executive Director or  
Deputy Director

Record of Pipeline Disinfection

Part A Request (To be filled out by Section, for ruptures or maintenance or by (MECD) Const. Resident for new construction)

Site of pipeline disinfection

Community(ies) \_\_\_\_\_

Street(s) \_\_\_\_\_

Pipeline section No. \_\_\_\_\_ (Contract# \_\_\_\_\_)

Diameter \_\_\_\_\_ inches (d) Length to be disinfected \_\_\_\_\_ feet (L)

From Sta \_\_\_\_\_ to Sta \_\_\_\_\_  
(or) DR# \_\_\_\_\_ to DR# \_\_\_\_\_

No. of injection points \_\_\_\_\_ No. of blow-off/discharges \_\_\_\_\_

Location fo blow-off/dischARGE and receiving body (i.e. stream, sewer, etc.)

Disinfectant used \_\_\_\_\_ Date Dosage started \_\_\_\_\_

Requested by: Name \_\_\_\_\_ Title \_\_\_\_\_  
Date \_\_\_\_\_

Part B Dosage and Testing (To be filled out by Water Quality Section)

Recommended Dosage \_\_\_\_\_ gal/lbs.

Number of samples \_\_\_\_\_ Date Taken \_\_\_\_\_

Location \_\_\_\_\_

Parameter controlling test \_\_\_\_\_

Results (24 hrs.) \_\_\_\_\_ Fail \_\_\_\_\_ Retest required  
(Repeat Part B)  
Pass \_\_\_\_\_ Go to Part C

Part C Certification (by Water Quality Section)

I hereby certify the pipeline identified, disinfected and tested as stated above, has met the proper criteria for potable water supply usage.

\_\_\_\_\_  
Superintendent, Water Quality  
(or Designee)

