

## **REQUEST TO CONSTRUCT AND COMPLETED WORKS FOR A NEW WATER STORAGE TANK**

### **REQUEST TO CONSTRUCT A WATER STORAGE TANK**

Description: Prior to the construction of a new or modification of a Water Storage Tank, approval must be secured from the Westchester County Department of Health.

Applicable Codes: Part 5, Subpart 5-1 Section 5-1-22 of the New York State Sanitary Code and Chapter 873, Article VII, Section 873.707.1 of the Laws of Westchester County.

Fees: Chapter 873, Article XXI of the Laws of Westchester County.

Submittal: The submittal shall be forwarded to the Westchester County Department of Health, 145 Huguenot Street, 7<sup>th</sup> Floor, New Rochelle, NY 10801, Attention: Program Administrator. When requesting Approval of Plans for a project pursuant to the above provisions, the following list serves as minimum filing requirements:

- (1) One (1) original Form DOH-348 with all items completed. This form must be dated and bear the original signature of the applicant.
- (2) One (1) original Engineer's Report bearing the original signature and seal of a licensed and registered Professional Engineer in the State of New York. The Engineer's Report must provide a narrative of the scope, details and specifications of the project.

(A) Details must include:

- (1) Support with calculations for design capacity, such as emergency, fire flow, and operating or equalizing storage that is required.
  - (2) Support fire flow criteria with respect to flow, duration and ISO Requirements.
  - (3) Discuss pressure in service area of tank and minimum working pressure.
  - (4) Provide operating procedure of water storage tank.
  - (5) Discuss, if applicable, service area expansion with respect to adequacy of sources of water.
  - (6) Provide location of the tank and discussion of its use in the system.
  - (7) See Painting Water Storage tank for other requirements.
  - (8) If tank is used for contact time, provide calculations supporting such with the inclusion of concentration of chlorine and the pH.
  - (9) Discuss all applicable requirements of Part 7 of the 2003 edition of the Recommended Standards for Water Works.
- (3) A minimum of three (3) construction plans (one (1) plan will be retained by the Department) that are prepared by a Professional Engineer licensed and registered

in the State of New York. These plans must bear the professional's original signature and seal, be prepared pursuant to Title VIII Article 145, Section 7209 of the New York State Education Law and signed by the Municipal Engineer when applicable.

(A) Plan Contents

Minimum requirements to be included in the Plans.

(1) Notes to be Included on Plans:

- A. "All construction associated with the Water Storage Structure shall be in accordance with Part 7 of the 2003 edition of the Recommended Standards for Water Work".
- B. "Only lead free paint shall be used on the interior of the Water Storage Structure". See Water Storage Tank Painting for other applicable notes.
- C. "Finished Water Storage Structure shall be disinfected in accordance with AWWA Standard C652-92, except for Section 4.3 or latest AWWA Standard.
- D. Two successive sets of water samples taken at 24-hour intervals shall indicate microbiological (E-Coli and HPC) and volatile organic compounds, (EPA Method #524 and MTBE) acceptable water, and these results provided to the Westchester County Department of Health prior to the storage tank being placed in service.

(2) Illustrate all manholes and roof hatches.

(3) Indicate site map of tank denoting site accessibility and protection of tank.

(4) Indicate corrosion protection of metal surfaces.

(5) Provide grading contours insuring drainage away from tank.

(6) Provide valve pit detail and drainage of such.

(7) Denote vents with screen and drainage detail of tank.

(8) Denote pressure control indicators, sight glass, air compressor, automatic or manual air reliefs, overflow drainage, telemetering or liquid level indicators, alarms and altitude valves.

(9) If tank is used for contact time, illustrate baffled arrangement with respect to inlet and discharge pipe.

(10) Provide other requirements as contained in Part 7 of the 2003 edition of the Recommended Standards for Water Works.

## ISSUANCE OF COMPLETED WORKS

### APPROVAL FOR NEW WATER STORAGE TANK

Description: Prior to the activation of a new or modified water storage tank, approval must be secured from the Westchester County Department of Health.

Applicable Codes: Part 5, Subpart 5-1 Section 5-1-22 of the New York State Sanitary Code and Chapter 873, Article VII, Section 873.707.5 of the Laws of Westchester County.

Fees: Chapter 873, Article XXI of the Laws of Westchester County.

Submittal: The submittal shall be forwarded to the Westchester County Department of Health, 145 Huguenot Street, 7<sup>th</sup> Floor, New Rochelle, NY 10801, Attention: Project Reviwer. When requesting Approval of Completed Works pursuant to the above provisions, the following list serves as minimum filing requirements:

- (1) That the supervising Professional Engineer licensed and registered in the State of New York provide a Certification Letter bearing the professional's original seal and signature which will be forwarded with the microbiological results, volatile organic compound results, and "As Built" plans. This letter shall provide a statement that the undersigned has supervised or witnessed bacteriological and organic sampling, construction, and that there are no construction changes from the original Departmental approval. In the event that construction changes do exist and have received prior Department approval, this letter must reflect such changes.
- (2) Submit with the Certification Letter two (2) water sampling test results for microbiological (E-Coli, and HPC) and volatile organic compounds (EPA Method #524 and MTBE) that were performed at consecutive 24-hour intervals at the discharge of the storage tank, illustrating complete compliance with the provisions of Part 5 of the New York State Sanitary Code. In the event that elevated levels are detected, only those compounds that are detected are to be re-sampled at the aforesaid intervals and locations.
- (3) A minimum of two (2) sets of "As Built" plans (one (1) set being retained by the Department) bearing the original seal and signature of the construction supervising Professional Engineer licensed and registered in the State of New York. This plan must reflect any changes from the original approved plan by "bubbling" these changes. Note: All deviations from the original approved plans must have received prior approval from this Department.
- (4) Refer to "Water Storage Tank Painting" for other applicable requirements.