



**NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SYSTEM ENGINEERING
TECHNICAL REVIEW FORM**

**DISTRIBUTION STORAGE
(N.J.A.C. 7:10-11.11)**

_____ Water Purveyor _____ PWSID# _____ Municipality

Type: Elevated Tank Underground Material: Steel
 Standpipe Pneumatic Concrete
 Ground Other: _____

Dimensions: Height: _____ Base Elevation: _____
 Diameter: _____ Overflow Elevation: _____
 Length: _____ Highest Elevation to be Served: _____

Total Capacity: _____ MG below elevation _____
 Effective Capacity: _____ MG below elevation _____
 Unusable Capacity*: _____ MG below elevation _____

*This is the capacity of the tank below the level needed to maintain 20 psi

	YES	NO	N/A
1. In systems which use storage to maintain system pressure, is the storage facility designed to maintain a minimum pressure of 20 pounds per square inch (psi) at street level under all flow conditions? (N.J.A.C. 7:10-11.11(a)2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are there any common walls between finished water and untreated water? (N.J.A.C. 7:10-11.11(a)4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is the storage tank equipped with an overflow and a low level warning alarm? (N.J.A.C. 7:10-11.11(a)5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are there means to determine the water level in the storage tank? (N.J.A.C. 7:10-11.11(a)6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. For storage tanks over 100,000 gallons, is a level recorder provided? (N.J.A.C. 7:10-11.11(a)6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the storage facility designed so as to permit dewatering of the tank for cleaning and maintenance without interrupting service? (N.J.A.C. 7:10-11.11(a)7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	YES	NO	N/A
7. Is the facility protected against unauthorized access and vandalism as required pursuant to N.J.A.C. 7:10-11.6(g)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the facility provided with a suitable cover or roof? (N.J.A.C. 7:10-11.11(c)1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the roof of the facility well-drained and designed so that drain spout pipes do not enter the reservoir? (N.J.A.C. 7:10-11.11(c)2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Is the facility equipped with securely fastened access manholes and scuttles located at least 6 inches above the roof for above grade facilities and 24 inches above grade for underground facilities? (N.J.A.C. 7:10-11.11(c)4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are vents, which are equipped with down-facing elbows or mushroom covers and insect screens provided? (N.J.A.C. 7:10-11.11(c)5) Do the vents terminate a minimum of 24 inches above the roof or surrounding grade? (N.J.A.C. 7:10-11.11(c)5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Do all coatings which will come in contact with finished water meet the requirements of N.J.A.C. 7:10-8?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Will the facilities be disinfected prior to being placed in service in accordance with N.J.A.C. 7:10-11.6(d)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Is cathodic protection provided? (N.J.A.C. 7:10-11.15(d)5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Is the tank designed to adequately mix water to maintain disinfection residuals?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Below Grade Storage Facilities

1. Is the facility designed, located, and graded to be secure against uplift and entry of underground and surface contamination? (N.J.A.C. 7:10-11.11(e)1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are access points at least 36 inches above grade? (N.J.A.C. 7:10-11.11(c)4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are any sanitary sewer lines located within 100 feet of the facility? (N.J.A.C. 7:10-11.11(e)2) If YES, is the sewer line constructed of steel, reinforced concrete, cast or ductile iron or other suitable material and has the line been tested for water tightness? (N.J.A.C. 7:10-11.11(e)2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are any sanitary sewer manholes or lateral connections located within 100 feet of the facility? (N.J.A.C. 7:10-11.11(e)3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

YES NO N/A

5. Are storage tanks located in an area with a high water table equipped with a double containment system that includes leak detection equipment? (N.J.A.C. 7:10-11.11(e)4) [] [] []

Above Grade Storage Facilities

1. Is the facility equipped with an inside or outside ladder to permit inspection? (N.J.A.C. 7:10-11.11(f)1) [] [] []

2. Is the riser pipe protected against freezing? (N.J.A.C. 7:10-11.11(f)2) [] [] []

3. Is an overflow which terminates no less than 6 inches nor more than 36 inches above the ground provided? (N.J.A.C. 7:10-11.11(f)3) [] [] []

Hydropneumatic Storage Tanks

1. Is the tank located above ground and enclosed completely in a building? (N.J.A.C. 7:10-11.11(g)2) [] [] []

2. For systems using only hydropneumatic tanks for storage: (N.J.A.C. 7:10-11.11(g)3)
a. Is the total capacity of the wells and pumps at least 10 times the average daily demand of the system? [] [] []
b. Is the gross volume of the tank, in gallons, at least 10 times the capacity, in gallons per minute, or the largest well and/or pump? [] [] []

3. Is the tank equipped with a pressure relief valve and a vacuum relief valve? (N.J.A.C. 7:10-11.11(g)4) [] [] []

Does the water system provide fire protection? (N.J.A.C. 7:10-11.11(a)2) [] [] []

If YES, does the water system also have gravity storage? (N.J.A.C. 7:10-11.11(a)2) [] [] []

Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers
I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.

Signature of Engineer
Professional Engineer's Embossed Seal

Date

N.J.P.E. #

Type or Print Name of Engineering Firm

