



## 7. HYDRO – TESTING OF PIPELINES PROCEDURE

Hydro-Testing (Hydrostatic Testing) is a type of test that is performed on pressure vessels to check for leaks and correct mechanical properties. It involves completely filling up a pressure vessel with water and then pressurizing it.

<b>Office or Division:</b>	Construction and Maintenance Division			
<b>Classification:</b>	Highly Technical			
<b>Type of Transaction:</b>	G2C – Government to Citizen, G2B – Government to Business, G2G - Government to Government			
<b>Who may avail:</b>	Construction and Maintenance Division, Engineering Division			
<b>CHECKLIST OF REQUIREMENTS</b>		<b>WHERE TO SECURE</b>		
None				
<b>CLIENT STEPS</b>	<b>AGENCY ACTIONS</b>	<b>FEES TO BE PAID</b>	<b>PROCESSING TIME</b>	<b>PERSON RESPONSIBLE</b>
1. None	1. All pipelines shall be thoroughly flushed out with water prior to testing joints.  1.2. Maximum length of test sections shall be 500 meters for distribution mains and 1,000 meters for transmission mains.	None	2 hours	<b>Marklie M. Paguio</b> (Water Maintenance General Foreman)
2. None	3. The pipeline shall be prepared for testing by closing valves when available, or by placing temporary bulkheads in the pipe and filling the line slowly with water. During the filling of the pipe and before the application of the specified test pressure, all air shall be expelled from the pipeline.	None	1 day	<b>Marklie M. Paguio</b> (Water Maintenance General Foreman)
3. None	4. After the line or section thereof has been completely filled, it shall be allowed to stand under a slight pressure for a minimum of forty-eight (48) hours to allow the escape of air from any air pockets and to allow the pipe or mortar lining to absorb as much water as possible.	None	2 days	<b>Marklie M. Paguio</b> (Water Maintenance General Foreman)



4. None	5. The test shall consist of holding the test pressure on each section of the line for a period of two (2) hours. The test pressure at the lowest point shall be 50 psi or 100 psi of pipe installed, class 100 or class 150	None	<i>2 hours</i>	<b>Marklie M. Pagio</b> (Water Maintenance General Foreman)
<b>Total:</b>		None	<i>3 days and 4 hours</i>	