Verification Test

The Verification Test has been developed to sustain that the Water Dose device meets the engineering specifications after multiple usages. A concerned has been previously communicated regarding fluctuations in the water pressure. Therefore this test will try to address if the system has suffered changes.

The person in charge must test the water dosage output in order to confirm that 19 seconds are still dosing 2.5 quarts of water and that the flow of the water is uniformly across the eight outputs. In order to realize this test, locate a bucket on each water output and trigger the system for 19 seconds. Once this is done measure the water within buckets to make sure that they are filling approximately 2.5 quarts of water. During the first months the test should be perform regularly and as times goes by and it is assure that the flow is not suffering significant changes move to routine test being practiced not so often. The test is intended to show if significant changes have occurred. If this scenario holds true, then the tester would need to do further experimentation and root-cause analysis to resolve where the problem may have arose.

The Chart below displays a proposal on when the test should happen for the first year if all tests are successful within the acceptable variability.

Date	Level of water dosed by the outlets							
	1	2	3	4	5	6	7	8
5/12/2011	2.5	2.43	2.58	2.58	2.58	2.58	2.35	2.43
6/12/2011								
7/10/2011								
8/14/2011								
9/11/2011								
11/13/2011								
1/15/2012								
4/15/2012								
7/15/2012								