



Failure of the installer to complete all of the following procedures that subsequently result in a failed startup will result in a \$500 charge to the installer for AQWA to make a 2nd trip to the property for a second startup

System Quality Assurance Startup Procedures Prior

The following must be completed by the installation contractor prior to scheduling the startup with AQWA and the permitting engineer. **Consult your control panel installation and testing manuals for more detail.**

Check off each of the below as it is completed.

1. Provide property owner contact information and property closing date to AQWA and permitting engineers.
2. Inspect septic tank risers, treatment hinges, splice boxes, headworks and valve boxes to ensure they are above grade and accessible.
3. Verify that the septic tank effluent filter is level and can be removed from the tank.
4. Verify that permanent power is established and that incoming power to the control panel has the correct number of circuits and circuit voltage.
5. Test floats to ensure functionality and that wiring terminations are correct. (Refer to Panel Testing Manual included in each control panel)
6. Check solenoid functionality and ensure solenoids are wired into the correct terminals at the control panel. Solenoid will click when the corresponding switch is moved to the "MAN/HAND" position. Verify that the solenoid that corresponds to the switch fires by having a helper place their hand on the solenoid to feel the click. Solenoids are labeled when the headworks are manufactured.
7. Verify that both the septic tank and treatment unit are filled with clean water for testing and startup.
8. Check the functionality of the recirculation "Recirc" pump. Place the recirc pump switch in the "MAN/HAND" position and visually verify that the pump sprays water over the textile sheets. This switch is spring loaded and must be held in place with a heavy duty rubber band, vise grips, or finger.
9. Check the functionality of the discharge pump. Place the discharge pump switch in the "MAN/HAND" position and verify that the pump is discharging water. This switch is spring loaded and must be held in place with a heavy duty rubber band, vise grips, or finger.
10. For pump to d-box systems, while discharge pump is running, walk to the DBOX and observe water entering and exiting the D-BOX as designed
11. For pump to drip irrigation systems, run the discharge pump for at least 1 minute to pressurize the drip field. In manual headworks, ensure that ball and gate valves are closed. For automatic headworks, ensure that the spin filter and field flush switch are in the "Off" position. There should not be any water returning to the septic during this test.



- 11.1. Run the discharge pump for at least 10minutes. While the pump is running, walk the drip field area that is being dosed to observe any leaks that may exist.
- 11.2. If leaks are found, turn the pump off, fix leaks and repeat 9.1 until no leaks exist.
- 11.3. For multi-zone systems repeat #11 independently for each zone.

At startup

1. Installer shall attend system startup along with the permitting engineer.
2. Installer shall be prepared to perform minor repairs and shall possess a shovel, drip fittings, flex pvc, pvc solvent cement, pvc saw, pipe cutters and other basic tools.
3. Installer shall meet AQWA onsite at least 1 hour before permitting engineer is scheduled to arrive
4. Installer shall cooperate in the correction of any deficiencies or damage. AQWA will assist as able.
5. Installer shall remain onsite until startup is completed

If you have questions about the above please contact AQWA at 252-243-7693 or Patrick VanHook 252-292-1272 or Michael Clayton - 252-292-1667