

**PETERSEN INSPECTION AND OPERATION PROCEDURE
ONSITE DRIP DISPERSAL SYSTEM**

I. Monitoring Schedule Frequency

- A. Periodic Inspection
- B. _____
Compile and review (submit) data

II. Periodic Inspection

- A. Field Conditions
 - 1. Walk the field and record any visible wet spots from the drip system.
 - 2. O.K. _____ Repair _____ Comments and remedial action

- B. Controller
 - 1. Lights and manual switch positions.
 - a. Open the control panel and open the lid to the hydraulic unit and pump tank. Make sure all manual switches are in the automatic position. With Microprocessor on, verify power light and run light are on.
 - b. O.K. _____ Comments and remedial action

 - 2. Microprocessor input: See table in owners manual.
 - a. O.K. _____ Comments and remedial action

 - 3. Microprocessor output: Verify there is output only when in automatic operation. You may start automatic cycle with "Reset/Stop" button.
 - a. O.K. _____ Comments and remedial action

- C. Pump Tank Liquid Level Float Switches
 - 1. Check liquid level in the pump tank to confirm switch operation.
 - a. If a float is down, its light should be off. Note; High level alarm float requires optional relay installed in control.
 - 2. O.K. _____ Comments and remedial action

- D. Pump and Valve Operation
 - 1. Place pump "Hand-Of-Auto" switch in the "Hand" position to dead head pump against valves. Then open (optional) master valve. Flow meter should not turn indicating there are no leaks.
 - 2. O.K. _____ Comments and remedial action

 - 3. With the pump running, place each zone valve in the "Hand" (open) position one at a time to check operation. With one zone valve open, flow should register on the flow meter. When the zone valve closes (off position), the flow should stop.
 - 4. O.K. _____ Comments and remedial action

 - 5. With one zone valve open and flowing, close and reopen (optional) master valve to check operation.
 - 6. O.K. _____ Comments and remedial action

 - 7. With the pump in the "Hand" position open the filter backwash valve for filter one and two for ten seconds then close. There should be no flow registering in the flow meter and you should hear the valves open and close. The backwash return valve diaphragm will rise

- then lower during backflush.
- 8. O.K. _____ Comments and remedial action
- 9. Return all switches to the automatic position
- E. Hydraulic Unit
 - 1. Examine one filter and clean all filters as needed.
 - 2. Examine all hydraulic components for leaks, tubing crimps and other problems.
 - 3. O.K. _____ Comments and remedial action

III. Annual Inspections (Includes Periodic Inspection)

- A. Extended Check - Zone Dose Rates
 - 1. Open the air release valve boxes and inspect. Make sure they close during the dose with no water leak after air is evacuated.
 - 2. O.K. _____ Comments and remedial action
 - 3. _____
Determine how many zones are in operation and the installed flow rates from the installation records.
 - 4. O.K. _____ Comments and remedial action
 - 5. _____
With the pump in the "Hand" position, select the first zone by placing the zone valve switch in the "Hand" position. After pressurization time, check flow rates by reading the flow meter for a timed minute. Repeat for all zones. If flow varies by more than 10% from original flow rates, reset flow rates.
 - 6. O.K. _____ Comments and remedial action
 - 7. _____
After the final zone is checked, place the "Zone Return" valve in the "Hand" position while the "Zone Valve" is still in the "Hand" position and verify that the flow rate increased to provide field flushing.
 - 8. O.K. _____ Comments and remedial action
 - 9. _____
Return appropriate switches to the automatic position.
 - 10. O.K. _____ Comments and remedial action
 - 11. _____
Press reset button for 5 seconds and check automatic zone dosing time.
 - 12. O.K. _____ Comments and remedial action
- B. Tanks and Pumps
 - 1. Examine and clean effluent screens, filters, and floats as needed.
 - 2. O.K. _____ Comments and remedial action
- C. Measure solids level in all tanks
 - 1. Septic Tank - Tank Depth _____ Sludge Depth _____
 - 2. Settling Tank - Tank Depth _____ Sludge Depth _____
 - 3. Dose Tank - Tank Depth _____ Sludge Depth _____
 - a. Sludge pumping required Yes _____ No _____

IV. Reporting

- A. Provide summary report to customer showing gallon flow to each field along with pertinent operating information and suggestions.
- B. Provide signed and dated inspection report to customer file and regulatory agency as needed.
- C. Have records available and be prepared to discuss operation and maintenance specifics with customer personnel.

V. Operator Signature _____ **Date:** _____

Perc-Rite® Dealers are authorized to reproduce forms in this manual as needed for each site. Additional comments (use back of copy if necessary).

Ps drip inspection and operation procedure.doc 11/03