



# American Manufacturing Company, Inc.

P.O. Box 97, Elkwood, VA 22718

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Owner: \_\_\_\_\_ Service Provider: \_\_\_\_\_  
System Address: \_\_\_\_\_ Address: \_\_\_\_\_  
PIN/Const. Permit/  
Health Dept. ID: \_\_\_\_\_ Phone: \_\_\_\_\_  
Tax Map No.: \_\_\_\_\_ Certification No.: \_\_\_\_\_  
Sub Div.: \_\_\_\_\_ Lot No.: \_\_\_\_\_ Date: \_\_\_\_\_

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## ***INSPECTION AND OPERATION PROCEDURE PERC-RITE® ONSITE DRIP DISPERSAL SYSTEM***

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**I. Monitoring Inspection Event**      Scheduled ( )      Unscheduled ( )

**II. Operational Inspection**

- A. Field Conditions
  - 1. Walk the field and record any visible wet spots from the drip system.
- 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.
  - 2. Microprocessor input: See table in owners manual. Verify float and auto inputs.
  - 3. Microprocessor output: Verify there is output only when in automatic operation. You may start automatic cycle with "Reset/Stop" button.
- C. Pump Tank Liquid Level Float Switches
  - 1. Check liquid level in the pump tank to confirm switch operation.
  - 2. If a float is down, its light should be off. Raise alarm float to activate alarm. Lower float and reset alarm condition.
- D. Pump and Valve Operation
  - 1. Place pump "Hand-Off-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. 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.
  - 3. With one zone valve open and flowing, close and reopen (optional) master valve to check operation.

4. 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.
5. Open one zone valve and dose a zone until flow slows to design flow then open zone return to see flow increase, close to see flow slow.
6. Return all switches to the automatic position

E. Hydraulic Unit

1. Examine all hydraulic components for leaks, tubing crimps and other problems.
2. Test heater if installed for cold climates.

**III. Capacity Maintenance Inspections Zone Dose Flow Rates**

A. Extended Check – Zone Dose Rates

1. Open the air release valve boxes and inspect. Make sure each air release closes during the dose with no water leaks after air is evacuated and valve is seated.
2. Determine how many zones are in operation and the Startup flow rates from the installation records.
3. 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. Report any excess flow variances from original flow rates.
4. 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.
5. Return appropriate switches to the automatic position.
6. Press reset button for 5 seconds and check automatic zone dosing time.

B. Hydraulic Unit

1. Examine for soundness.
2. Measure solids level in all tanks.

C. Inspect Treatment System

**IV. Reporting**

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

V. **Operator Signature** \_\_\_\_\_ Date: \_\_\_\_\_

VI. **Owners 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):