

## *On-site Systems Testing Manufactured Home Installations*

CFR 3285 and CFR 3286 require the manufactured home systems be tested after completion at the installation site.

If the retailer or installer as part of the manufactured home purchase agreement has agreed to provide any portion of the electrical, plumbing, or mechanical services provided for the home utility connections, the retailer or installer shall provide the verification required for the systems testing.

If the consumer as part of their manufactured home purchase agreement has agreed to contract any portion of the electrical, plumbing, or mechanical services provided for the home utility connections, the dealer/retailer or their agent shall provide a copy of this on-site utility services inspections form to the consumer. The consumer must have the home on-site systems testing completed and verified prior to occupancy of the manufactured home.

### Electrical:

1. 3285.702 (f) (1)

1. After completion of all electrical wiring and connections, including crossovers, electrical lights, and ceiling fans, the electrical system must be inspected and tested at the site.

2. 3285.702 (f) (2)

1. Continuity test to ensure metallic parts are effectively bonded,
2. Operational tests of all devices and utilization equipment (except water heaters, electric ranges/furnaces/dishwashers/clothes dryers & washers, and portable appliances) to demonstrate that they are connected and in working order,
3. For electrical equipment installed or completed during installation of the home, electrical polarity checks must be completed.

Electrical on-site testing may be completed by;

- The licensed electrical contractor of record for the project, or
- The MN licensed manufactured home installer of record, if the installer has been approved as capable of completing the on-site electrical testing by CCLD, or
- Manufacturer's IPIA agent.

Completed testing is required to be witnessed and documented. The witnessing authority may be the licensed electrical contractor, licensed installer if approved for electrical testing, MN contract electrical inspector, MN certified building inspector for the jurisdiction, MN CCLD inspection representative, or manufacturer's IPIA agent.

I certify the Electrical tests described above have been completed and passed the tests.  
(Continuity, Operational, Polarity and Smoke Alarm testing)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please print name legibly: \_\_\_\_\_

Print legibly Home Owner's Name: \_\_\_\_\_



**Water supply:** *The piping and connections up to the home connections to be tested in accordance with MSPC Chapter 4715.2820. The home to be tested to CFR 3285 requirements.*

**3. 3285.603 (e)**

1. Water line shall be tested with air or water at 100 psi for 15 minutes without loss of pressure,
2. Water heater must be disconnected when testing.

**Drainage System:** *The piping and connections up to the home connections to be tested in accordance with MSPC Chapter 4715.2820. The home to be tested to CFR 3285 requirements.*

**4. 3285.604 (d)**

1. Drain, waste, and vent systems must be tested by one of the three following methods;
  - Water test; before plumbing fixtures are connected all of the openings into the piping shall be plugged and the entire piping system subjected to a static water test for 15 minutes by filling it with water to the top of the highest vent opening with no evidence of leaking.
  - Air Test; after all fixtures have been installed, the traps filled with water, and the remaining openings securely plugged, the entire system shall be subjected to a 2-inch (manometer) water column air test.
  - Flood Level Test; the entire system shall be filled with water to the rim of the water closet bowl (tub and shower drains shall be plugged), the test shall be sustained for 15-minutes without evidence of leaks. The system shall then be unplugged and emptied. The waste piping above the water closet bowl shall then be tested to show no evidence of leakage when the high fixtures are filled with water and emptied simultaneously to obtain the maximum flow to drain piping.

Plumbing on-site testing may be completed by;

- The licensed plumbing contractor of record for the project, or
- The MN licensed manufactured home installer of record, if the installer has been approved by CCLD as capable of completing the on-site plumbing testing, or
- The manufacturer's IPIA agent.

Completed testing is required to be witnessed and documented. The witnessing authority may be the licensed plumbing contractor, licensed installer, MN certified building inspector for the jurisdiction, MN CCLD inspection representative, or manufacturer's IPIA agent.

I certify the plumbing tests described above have been completed and passed the tests.  
(Water line, Flood, and Fixture Testing)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please print name legibly: \_\_\_\_\_

Print legibly Home Owner's Name: \_\_\_\_\_

**Fuel Supply System:** *The piping and connections up to the home to be tested in accordance with MSMC Chapter 1346.5406. The home to be tested to CFR 3285 requirements.*

**5. 3285.605 (c)**

1. After the appliances are connected, piping system shall be pressurized to not less than 10 inches or more than 14 inches water column ( 6 to 8 ounces per square inch) and the appliance connections tested for leakage with soapy water or bubble solution. The system shall be isolated from the air pressure source and maintain this pressure for not less than ten minutes without showing any drop in pressure.
2. If the appliances are not furnished or have not been installed, piping systems shall stand a pressure of at least six inches mercury or 3 PSI gage for a period of not less than ten minutes without showing any drop in pressure. Pressure shall be measured with a mercury manometer or slope gage calibrated to read in increments of not greater than one-tenth pound, or an equivalent device.

Fuel supply system testing may be completed by;

- The gas supplier for the home (*local utility or independent supplier*), or
- MN bonded mechanical contractor, or
- Manufacturer's IPIA agent.

Completed testing is required to be witnessed and documented. The witnessing authority may be the gas supplier for the home, MN bonded mechanical contractor, MN certified building inspector for the jurisdiction, MN CCLD inspection representative, or manufacturer's IPIA agent.

**If during the testing, code non-compliances are found that were introduced into the home during the construction of a new manufactured home by the home manufacturer, notification is to be sent to the Minnesota Construction Codes and Licensing Division for notification to the appropriate parties (*manufacturer and their IPIA*) for manufacturer correction of non-compliances and re-testing. If the home is a used home tested and found to have code non-compliances that were introduced into the home by other than the manufacturer, appropriate corrections orders shall be issued to the responsible parties by the local authority having jurisdiction.**

**I certify the gas tests described above have been completed and passed the tests.**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Please print name legibly:** \_\_\_\_\_

**Print legibly Home Owner's Name:** \_\_\_\_\_