



Office of University Building Official

4400 University Drive, MS 1E4; Fairfax, VA 22030

Telephone: (703) 993-6070

Mechanical & Plumbing Systems Inspection Guide

PLUMBING SYSTEMS

- Under-slab and buried pipe- rough-in, bedding and pressure test
- Rough-in (before insulation)
- Domestic water pressure test
- Rough-in of medical gasses, lab gases, etc.
- In-Wall (after pressure test, insulation and labels)
- Water service entrance; meter, pressure reducing valve and back flow preventers
- Backflow preventers for HVAC make-up, irrigation, beverage dispensers, lab water systems, etc.
- Domestic water heaters and hot water main mixing valve
- Other temperature limiting devices; lavs, showers, emergency eye wash and shower, etc.
- Indirect drains, grease traps/interceptors, etc.
- Non-potable and purple water systems
- Domestic hot water flow and temperature demonstration
- Test emergency eye wash and emergency showers
- Bacteria report

FUEL GAS SYSTEMS

- Visual inspection of gas mains
- Pressure test of mains – air or nitrogen not to exceed 125 psig
- Visual inspection by OUBO & Utilities of connection to meter, regulators and appliances
- Bubble test of final connections at gas pressure

MECHANICAL SYSTEMS

- Under-slab and buried pipe – rough-in by OUBO & Utilities, bedding and pressure test
- Above ground hydronic rough-in and pressure tests
- In-Wall and Above Ceiling of piping (after pressure test, insulation and labels)
- Cooling coil condensate disposal
- Duct rough-in
- Duct pressure tests
- Clothes dryer exhaust ducts, hazardous exhaust ducts, other special exhaust ducts
- Duct insulation and labels

- Fire and smoke damper gaps
- Fire and smoke damper angles including inside shafts
- Duct insulation up to fire and smoke dampers
- Fire damper tests – 100% witnessed by OUBO.
- Fire and smoke damper tests -full inspection of smoke dampers; spot check after acceptable by prior arrangement. Determine if and how the heat element in combination dampers will be tested.
- Light bulb test of Type I kitchen exhaust duct
- Fire rated duct wrap – first layer and termination
- Fire rated duct wrap – final layer, duct support, bands and termination
- Kitchen hood fire suppression system
- Float or moisture sensors in elevator sumps (where pump not installed)
- Stair pressurization system
- ASHRAE 110 test for fume hoods and verification of other special exhaust
- Testing and air balancing report approved by Engineer of record

Other: _____