Common Opportunities to Save Energy in Multi-Family Housing

viridiant

Andrew Grigsby
Energy Services Director
andrew.grigsby@viridiant.org
(804) 773-3200
Richmond, VA

Safety First

- **Gas/oil appliance safety:**
  - Smoke/carbon monoxide detectors
  - Ensure proper venting of appliance fumes/exhaust
  - Run exhaust fan while cooking
  - Ensure sufficient oxygen for clean combustion
  - Inspect for gas leaks
- **Fix roof & plumbing leaks**
- **Remediate asbestos, lead paint/pipes, knob & tube wiring**
- **Dryer & exhaust fan vents:**
  - Keep short and straight
  - Clean as needed
  - Vent to daylight
- **Test for radon**



Failing Air Filters



Failing Air Filters



Failing Air Filters



Failing Air Filters



Failing Air Filters



Leaky Ductwork



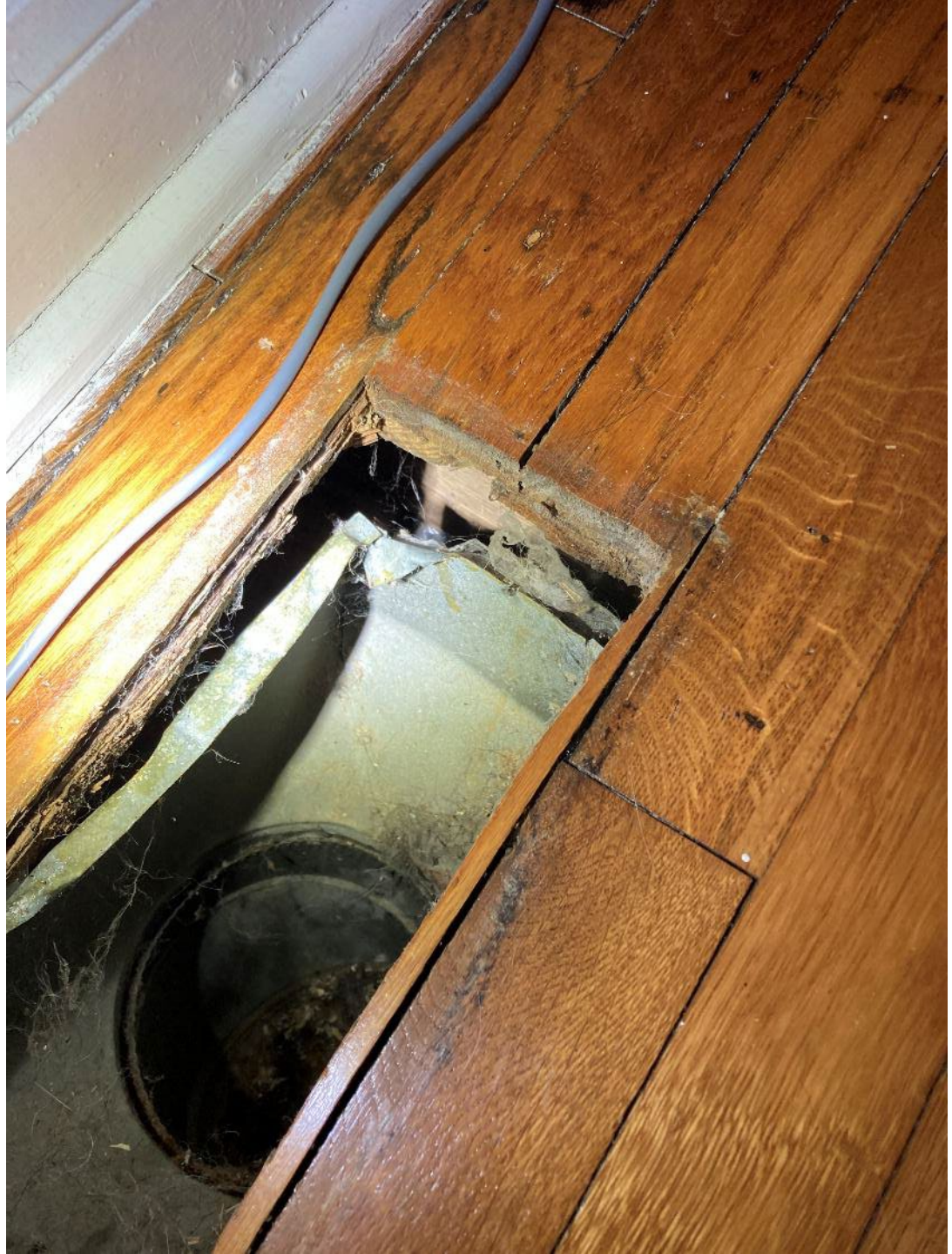
Leaky Ductwork



Leaky Ductwork



Leaky Ductwork



Leaky Ductwork



Leaky Ductwork



Poorly installed ductwork



Poorly installed ductwork



Poorly installed ductwork



Poorly installed ductwork



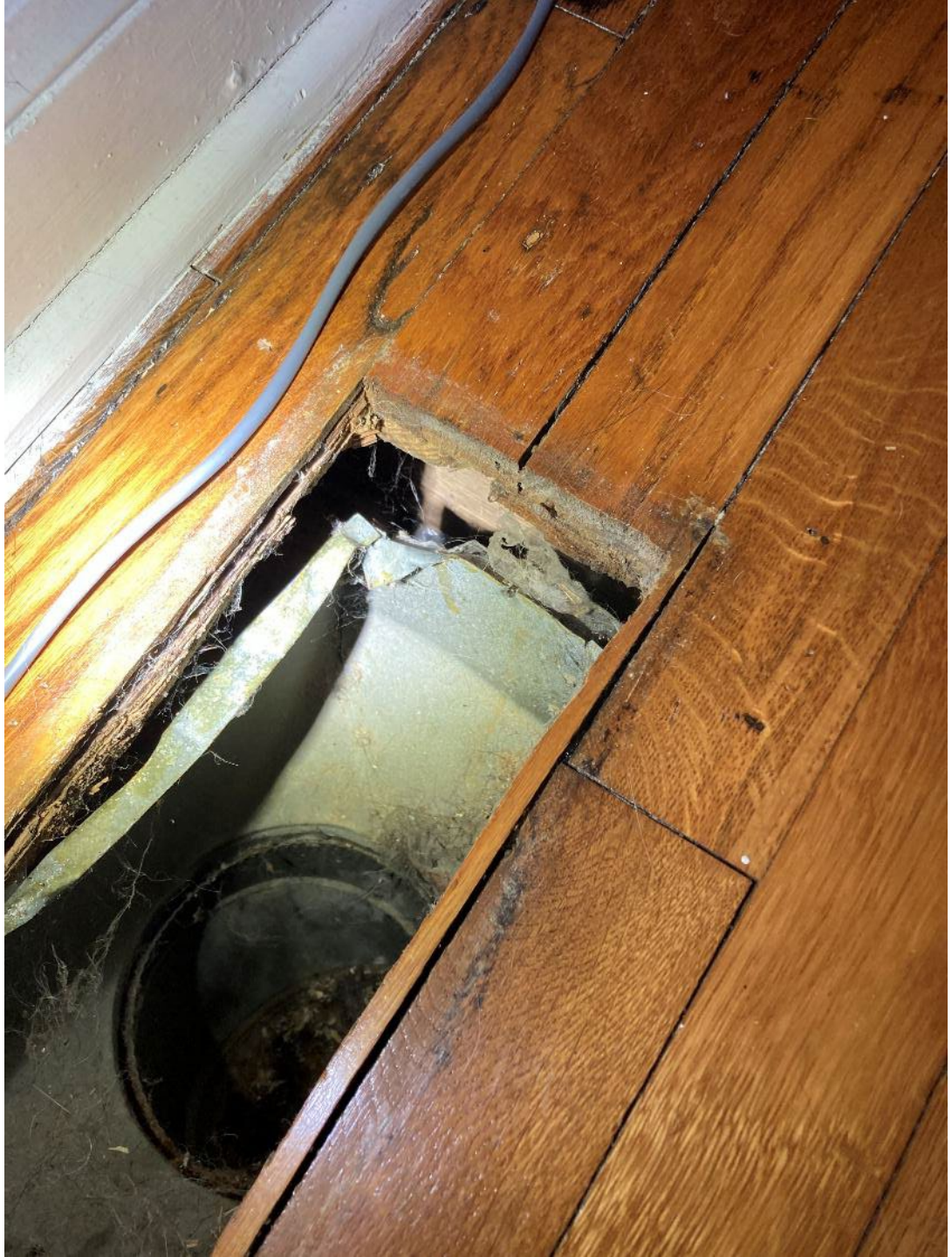
Air Leaks



Air Leaks



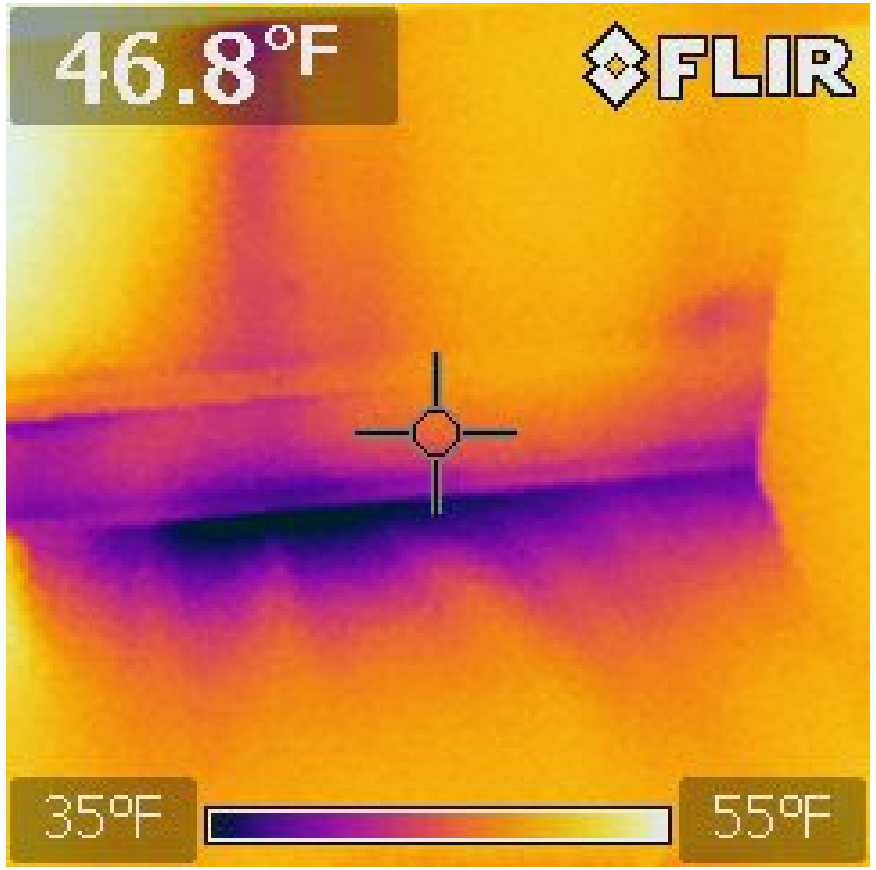
Air Leaks



Air Leaks



Air Leaks





Air Leaks



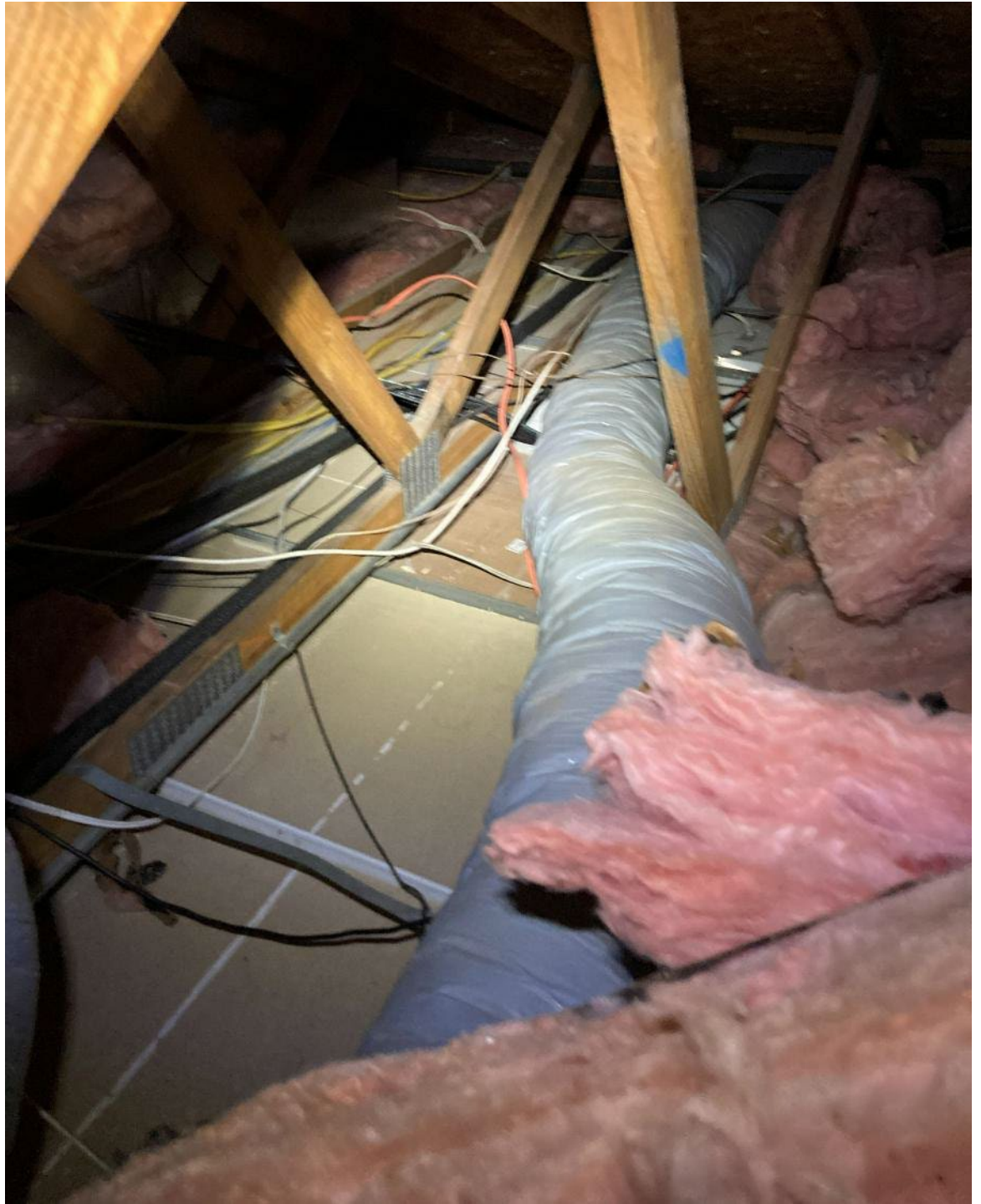
Insulation Installed Poorly



Insulation Installed Poorly



Insulation Installed Poorly



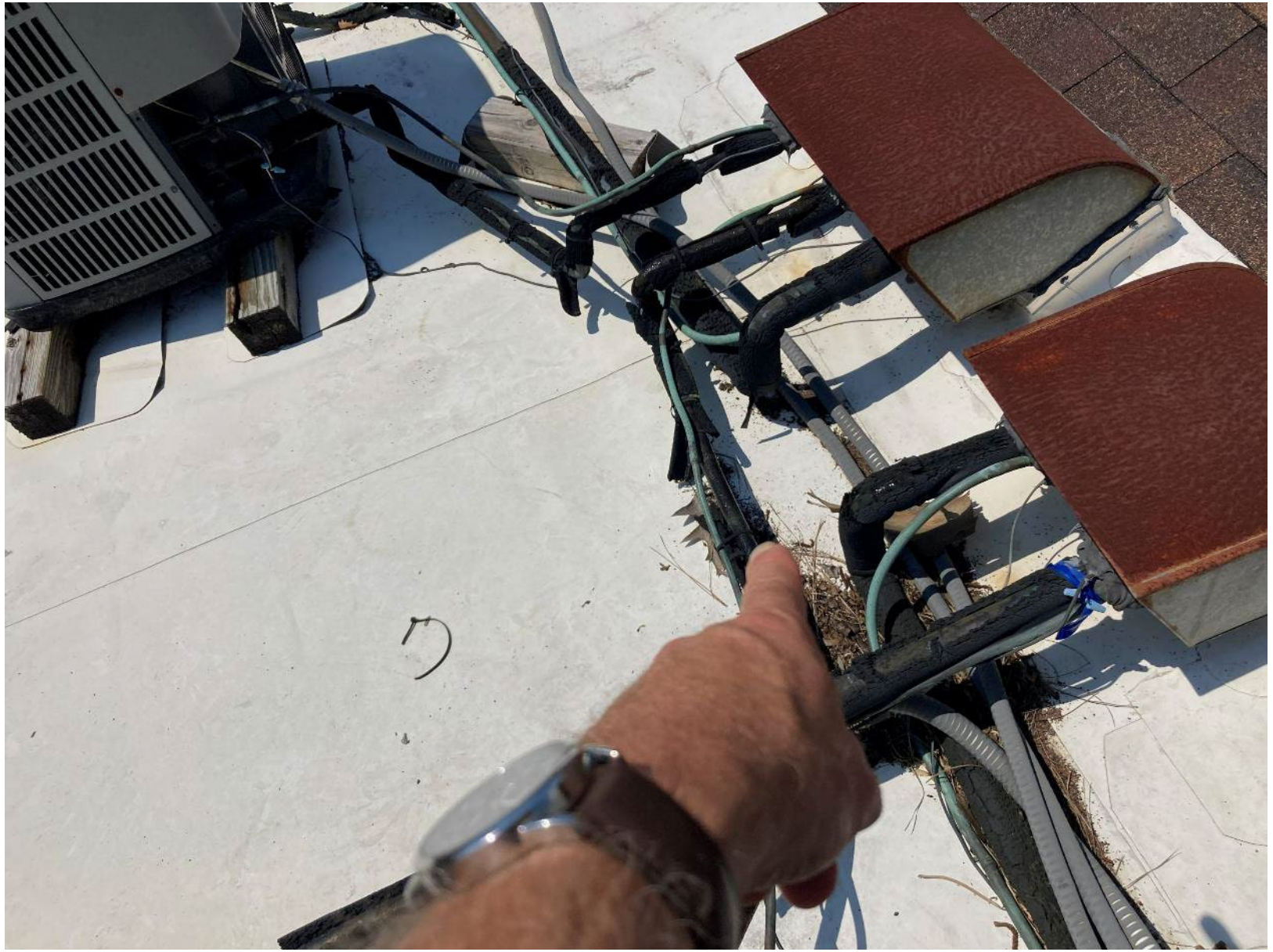
Insulation Installed Poorly



HVAC Maintenance



HVAC Maintenance



Window AC: Installation and Maintenance





HVAC Maintenance



Common Energy Saving Opportunities

- Air filters
- Duct leakage
- Duct design
- Air leaks
- Insulation
- HVAC maintenance
- Water heater settings
- Hot water pipes
- Attic access points
- Weatherstripping doors
- Timers, occupancy sensors, etc. (HVAC, lighting, hot water, amenities, etc.)

What are your questions?