**Understanding the Work Order, Exercise #2**

**Walkthrough Discoveries Answer Sheet**

On the initial walkthrough with the homeowner:

1. You discover the bathroom is on the first floor with a finished, heated bedroom above. The fan unit, ducting, etc. purchased are for an attic installation. There is no access over the bathroom ceiling. What do you do?   
     
   Contact the auditor for a change order to a wall unit.   
     
   Find the ceiling stringers with a stud-finder. Cut a hole in the ceiling between the stringers the correct size for the fan unit, follow the ceiling cavity between the stringers to the nearest exterior wall, and measure and drill a duct-sized hole into the cavity from the exterior. Slide the duct in from the exterior. Mate it to the fan unit with a short piece of insulated flex duct and install the fan. Trim the duct to length, and install the vent hood. Be sure the duct slopes to the exterior.
2. The homeowner tells you the house was built in 1895 and, except for normal maintenance, is pretty much original. How might this information affect crew activities?   
     
   Framing style determines the wall drill pattern and air sealing requirements. A home built in 1895 is most likely balloon-framed. A balloon-framed home will require considerable air sealing to prevent unwanted air movement between interior cavities after job completion and also the migration of wall insulation into floor and ceiling cavities during insulation blowing.  
     
   The home was built before 1978. Therefore, lead-safe work practices will be required.
3. In one of the upstairs bedrooms, you notice an extension cord running from a small, dorm-style refrigerator to a bedroom ceiling light fixture served by the knob and tube wiring you are to bury in the attic. Is this a concern?   
     
   Yes.   
     
   Why or why not?   
     
   The knob and tube circuit is most likely overloaded.  
     
   If it is a concern, what should be done?   
     
   Either: (1) get the homeowner to agree *in writing* to discontinue use of the refrigerator; (2) dam any insulation to be installed away from the knob and tube wiring; or (3) check the circuit⎯including the extension cord—for adequate wire gauge, *permanent* proper amperage fusing, and lack of physical damage.
4. The main house chimney, serving the warm air basement furnace, has wallpapered plaster directly on the brick in the first floor living room. What must be done?   
     
   Educate the homeowner on the importance of not overheating the flue and preventing chimney fires. Depending on applicable codes and the amount of work done to the heating system, it may be necessary to have the chimney lined as part of the heating system improvement.