

Email from Cliff Bryant:

**Scenario:** Cliff lives in a home built in the late 1990's. He was experiencing water dripping from the master bath ceiling and had a roofer come look for leaks and could not find any so he called upon Voltaire Engineering to investigate: We found that 2 master bath vents were terminating within a foot of an open ventilation roof vent. When the temperature got really cold, the warm air met the cold air and was actually forming a block of ice on the underside of the roof vent. When the sun came out and the ice melted, it dripped down through the insulation and eventually saturated the drywall and made its way into the living space.

We removed all of the insulation, found some small spots of mold and had that cleared by an industrial hygenist. We then had the attic turned into a conditioned attic assembly by applying spray foam on the underside of the roof deck. After this, the Bryant's engaged our services to continue with some other energy conservation retrofits found durning our Whole-House Energy Assessment process.

Dan, we wanted to let you know how pleased we are with our decision to use Voltaire Engineering, Inc. to do our in-home energy audit. After receiving your analysis and recommendations we then engaged you to inspect the integrity of window seals (and fix those seals that were not up to snuff). We also took your advise to insulate the hot water heater and fix some holes in our venting system - among other things. When it was all done we have a home that is much more energy efficient. This has already resulted in lower heating bills this winter.

Thanks again Dan for your analysis and hard work to fix all of our in home energy efficiency issues. We can't recommend you highly enough!

Thanks again,

Cliff and Mary Bryant