HOME PERFORMANCE & BUILDING SCIENCE
Home Performance Science

Your HOUSE is a SYSTEM
Home Performance Science

- Scientific principles and technology—not piecemeal repairs

_Bigger is better, isn’t it?_

- Certain solutions—not just expensive hardware upgrades
Symptoms of a Sick House

- Too hot/too cold rooms
- Respiratory problems
- Headaches/nausea
- Smoky fireplace
- Foggy windows
- Stuffy air and lingering odors
- Peeling paint
- Constant dust problems
- Back drafting
- Moisture
- Structural integrity
A Unique Chemistry

- Scientific tests for unhealthy, unsafe and energy-wasting conditions
Duct Blaster

Infrared Camera

Blower Door
California’s Healthy House Solution Cures Home-sickness

**Infrared image**
Spotting air leakage
The Healthy House Analysis

• Test-in, test-out
Infiltration

• It is important to have the correct amount of air changes within the home.
• The recommended amount of air changes per hour is .35 to .50 of total air volume.
• House too tight: Moisture problems, stagnant air, combustion safety.
• House too loose: Drafty, introduces pollutants.
Vapor sealing the crawlspace

• Decreases dust from getting into the home.
• Reduces the amount of moisture in the crawlspace and within the home.
Duct Sealing

- Reduces the amount of the heated or cooled air being lost and not reaching the conditioned space, home.
- Reduces the amount of dust and other contaminants from entering the home.
- Less chance for the house to become depressurized and causing back drafting.
Health and Safety

• This is the most important aspect of home performance. The home works as a system and everything you do to the home will effect something else in the home.

• Worst-Case-Condition: Always tested in and when work is completed. Carbon monoxide is the “Clear and Present Danger”!
Benefits California’s Healthy House Solution

- Every room a “clean room”
- Relief for asthma and allergy sufferers
- Pollution can’t penetrate
- Comfortable, even heating and cooling
- Set the thermostat and forget it
- Big energy savings - 30%–40%

Not an energy audit
Where We’re Going

Over $3.5 million in funding from the California Public Utilities Commission