# Building America Building Science Translator “Power Words” Draft Glossary

May 30, 2014

## Background:

Housing industry leaders today are successfully building and selling high-performance new and existing homes. This includes DOE Zero Energy Ready Home (formerly DOE Challenge Home), ENERGY STAR Certified Homes, numerous green building programs, and performance-focused remodeling projects through Home Performance with ENERGY STAR. However, many stakeholders are frustrated that the transaction process fails to recognize the value associated with lower cost of ownership, greater comfort, improved health, ensured combustion safety, and more durability. While there are a myriad of activities educating key transaction players, Building America and DOE Zero Energy Ready Home believe that we need to more effectively communicate the value of high-performance homes. This begins by using terminology for high-performance measures that consistently convey the improved consumer experience, rather than the engineering function. This is an important and powerful first step which is fully under our control, particularly if we facilitate a collective impact process engaging all stakeholders to develop and embrace this new language of ‘value’.

The goal of this Building Science Translator is to begin this process by providing a new glossary of ‘Power Words’ to be used across the industry and consistently reinforce the value of high- performance homes. This includes applying this new language consistently to all consumer-facing materials used by government programs and industry alike.

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# Standard Definitions and Terminology

## Glossary Goals:

* **Consistency of Language** – terminology is used consistently throughout glossary
* **Effectiveness of Language** – terminology addresses consumer experience vs. technical function
* **Inclusiveness of Language** – terminology addresses all critical high-performance home measures

## Extra Quantity of Efficiency Terminology:

* High-Efficiency = minimum 15% above existing code or standard, or
* Super, Super-Efficient, or ultra-efficient = 50% above existing code or standard

***Examples:***

* + ‘High-Efficiency’ Insulation = minimum 2012 IECC for most of U.S which is ~15% more efficient than 2009 IECC.
	+ ‘Super’ Insulation or Ultra-Efficient Insulation = 50% minimum above 2009 IECC
	+ ‘High-Efficiency’ Window = ENERGY STAR Window minimum which is ~15% above standard window
	+ ‘Super’ Window or Ultra-Efficient Window = R-5 Window or better
	+ High-Efficient Appliance = ENERGY STAR Qualified Appliance where labeled or equivalent
	+ Super-Efficient Appliance = ENERGY STAR Most Efficient where labeled or equivalent

## Quality Installation Terminology Options:

* ‘Premium’ installation’ or
* ‘Grade A’ installation

Promote consistent terminology for quality in related industries, such as:

* RESNET change ‘Grade 1’ Insulation to ‘Grade A’
* Coordinate with ACCA on Quality Installed HVAC

**High-Performance Definition:** The combination of extra ***Quantity of Efficiency*** above code or standard ***plus*** ensured ***Quality Installation*** (also referred to as ***Smart***):

High-Performance = High-Efficiency or Super-Efficient + Premium Installation

# Standard Definitions and Terminology (continued)

## HVAC Systems and Components Terminology:

* HVAC System = Comfort System
* HVAC Equipment = Comfort Equipment
* HVAC Ducts = Comfort Delivery System [analogy: lungs of home]
* HVAC Terminals = Comfort Outlets
* HVAC Pressure Balancing = Comfort Balancing
* HVAC Transfer Grill or Jump Duct = Comfort Vent
* HVAC Thermostat = Comfort Control

**Zero Energy Ready Home Definition:** A high-performance home so energy efficient, all or most annual energy consumption can be offset with renewable energy.

**Alternate Options:** Terminology with alternate options will have definition cite “also known as...” This will allow same measure to be listed multiple times in marketing material referencing different consumer experiences.

Ex. There are no basements in high-performance homes: Basement = **Lower Level**

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| **Original Building Science Term** | **New****Building Science Term** | **Alternate Terms by Consumer Experience** |
| **Lives Better BetterBBetterBetter** | **Works Better** | **Lasts Better** |
| **Engineered Comfort** | **Healthful Environment** | **Ultra-Efficient** | **Advanced Technology** | **Quality Built** | **Enhanced Durability** |
| **High-Performance Thermal Enclosure** | **High-Performance Thermal Protection** | **Enhanced Comfort Enclosure** | **Enhanced Indoor Environment Enclosure** | **Enhanced Thermal Protection Enclosure** | **Advanced Enclosure Technology** | **Premium-Installed Thermal Protection System** | **High-Performance Thermal Protection** |
| **High-Performance Window System** | **High-Performance Window System** | **Enhanced Comfort Window System** | **Quiet Window System** | **High-Efficiency Window System** | **Advanced Window System** | **Premium-Installed Window System** | **High-Performance Window System** |
| **High-R Window** | **High-Efficiency Window** | **Enhanced Comfort Window** | **Quiet Window** | **High-Efficiency or Super Window** | **Advanced Window Technology** | **Premium-Installed Window** | **Sun-Block Window Condensation Controlled Window** |
| **Sealed and Flashed Window** | **Premium-Installed Window** | **Draft-Free Window** | **Moisture Controlled Window** | **Energy Sealed Window** | **Advanced Window Installation** | **Premium-Installed Window** |  |
| **High-Performance Insulation System** | **High-Performance Insulation System** | **Thermal Blanket Construction** | **Quiet Home Construction** | **High-Efficiency or Super Insulation Sys.** | **Advanced Insulation Technology** |  |  |
| **High-R Insulation** | **High-Efficiency or Super- Insulation** | **Enhanced Thermal Blanket** | **Enhanced Sound Insulation** | **High-Efficiency or Super- Insulation** | **Advanced Insulation Technology** |  |  |
| **High-R Wall Insulation** | **High-Efficiency or Super-Wall Insul.** | **Enhanced Thermal Blanket Wall** | **Enhanced Sound Insulation Wall** | **High-Efficiency or Super-Wall Insul.** | **Advanced Wall Insulation Tech.** |  |  |
| **High-R Floor Insulation** | **High-Efficiency or Super Floor Insulation** | **Enhanced Thermal Blanket Floor** | **Enhanced Sound Insulation Floor** | **High-Efficiency or Super Floor Insulation** | **Advanced Floor Insulation Technology** |  |  |
| **High-R Attic Insulation** | **High-Efficiency or Super Attic Insulation** | **Enhanced Thermal Blanket Attic** | **Enhanced Sound Insulation Ceiling** | **High-Efficiency or Super Attic Insulation** | **Advanced Attic Insulation Technology** |  |  |
| **High-R Foundation Insulation** | **High-Efficiency or Super Foundation Insulation** | **Enhanced Thermal Blanket Lower Level** | **Enhanced Sound Insulation Lower Level** | **High-Efficiency or Super Foundation Insulation** | **Advanced Foundation Insul. Technology** |  |  |
| **Insulation Quality Installation** | **Premium-Installed Insulation** | **Comfort Installed Insulation** | **Quiet Installed Insulation** | **High-Efficiency Ensured Insulation Installation** | **Advanced Insulation Installation Practices** | **Premium-Installed Insulation** |  |
| **Fully Aligned Air Barriers** | **Premium-Installed Draft Barrier** | **Whole-House Draft Barrier** | **Dust and Pollen Barrier** | **Energy Saving Air Barrier** | **Advanced Air Leakage Control Technology** | **Premium-Installed Draft Barrier** | **Moisture Control Air Barrier** |
| **Reduced Thermal Bridging** | **Thermal Buffer Construction** | **Thermal Buffer Construction** | **Sound Barrier Construction** | **Energy Saving Thermal Buffer** | **Advanced Thermal Buffer Technology** | **Premium-Installed Thermal Buffer** |  |
| **Raised Heel Truss** | **Energy Saving Attic Edge Insulation** | **Attic Comfort Edge** |  | **Energy Saving Attic Edge Insulation** |  |  |  |
| **Slab Edge Insulation** | **Energy Saving Slab Edge Insulation** | **Slab Comfort Edge** |  | **Energy Saving Slab Edge Insulation** |  |  |  |

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| **Engineered Comfort** | **Healthful Environment** | **Ultra-Efficient** | **Advanced Technology** | **Quality Built** | **Enhanced Durability** |
| **Thermal Enclosure Reduced Thermal Bridging (continued)** |  |  |  |  |  |  |  |
| **Rigid Insulation Sheathing** | **Energy Saving Wall/Roof Thermal Buffer** | **Enhanced Comfort Wall/Roof Thermal Buffer** | **Sound Barrier Wall/Roof** | **Energy Saving Wall/Roof Thermal Buffer** | **Advanced Thermal Control Technology** |  | **Enhanced Wall/Roof Moisture Protection** |
| **Structural Insulated Panels (SIPs)** | **Energy Saving SIP Wall/Roof Thermal Buffer** | **Enhanced Comfort SIP Wall/Roof Thermal Buffer** | **Sound Barrier SIP Wall/Roof** | **Energy Saving SIP Wall/Roof Thermal Buffer** | **SIPs Advanced Thermal Control Technology** | **Straight Wall System** | **SIP Moisture Controlled Construction** |
| **Insulated Concrete Forms (ICFs)** | **Energy Saving ICF Wall Thermal Buffer** | **Enhanced Comfort ICF Wall Thermal Buffer** | **Sound Barrier ICF Wall** | **Energy Saving ICF Wall Thermal Buffer** | **ICF Advanced Thermal Control Technology** | **Straight Wall System** | **Moisture Controlled ICF Wall Assembly Disaster Resistant ICF Wall** |
| **Double-Wall Framing** | **Energy Saving Double-Wall Thermal Buffer** | **Enhanced Comfort Double Wall Thermal Buffer** | **Sound Barrier Double-Wall Framing** | **Energy Saving Double-Wall Thermal Buffer** | **Double-Wall Advanced Thermal Control Technology** |  |  |
| **Advanced Wall Framing** | **Energy Saving Advanced Wall Framing Thermal Buffer** | **Enhanced Comfort Advanced Wall Framing Thermal Buffer** | **Sound Barrier Advanced Wall Framing** | **Energy Saving Advanced Wall Framing Thermal Buffer** | **Advanced Wall Framing Thermal Control Technology** |  |  |
| **Reduced Wall Framing** | **Energy Saving Wall Framing** | **Comfort Wall Framing** | **Sound Barrier Wall Framing** | **Energy Saving Wall Framing** | **Advanced Wall Framing Technology** |  |  |
| **2-Stud Corner w/Drywall Clips** | **Energy Saving Corner Framing** | **Comfort Corners** | **Sound Barrier Corner Framing** | **Energy Saving Corner Framing** | **Advanced Wall Framing Technology** | **Crack-Free Corners** |  |
| **Adv. Int./ Ext. Wall Intersections** | **Energy Saving Wall Intersections** | **Comfort Corners** | **Sound Barrier Wall Intersection Framing** | **Energy Saving Wall Intersections** | **Advanced Wall Framing Technology** | **Crack-Free Corners** |  |
| **Insulated Headers** | **Energy Saving Window Framing** | **Comfort Window Framing** | **Sound Barrier Window Framing** | **Energy Saving Window Framing** | **Advanced Wall Framing Technology** |  |  |
| **Tight Air Sealed Home** | **Comprehensive Draft Sealing** | **Comprehensive Draft Sealing** | **Contaminant Barrier Construction with Bug Control** | **Comprehensive Energy Sealed Construction** | **Advanced Home Sealing Technology** |  | **Moisture Sealed Construction** |
| **Radiant Barrier** | **Energy Saving Sun Control Layer** | **Attic Comfort Shield** |  | **Energy Saving Sun Control Layer** | **Smart Attic Cooling Technology** |  |  |

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| **Engineered Comfort** | **Healthful Environment** | **Ultra-Efficient** | **Advanced Technology** | **Quality Built** | **Enhanced Durability** |
| **High-Performance HVAC System** | **High-Performance Comfort System** | **High-Performance Comfort System** | **Moisture Control Comfort System** | **High-Efficiency Comfort System** | **Advanced Comfort System Technology** | **Premium-Installed Comfort System** |  |
| **HVAC Quality Installation** | **Premium-Installed Comfort System** | **Performance Assured Comfort System** | **Moisture Controlled Comforted System** | **Efficiency Optimized Comfort System** |  | **Premium-Installed Comfort System** |  |
| **Proper Sizing HVAC System** | **Engineered Comfort System Sizing** | **Comfort Optimized Comfort Sys. Sizing** | **Moisture Optimized Comfort Sys.** | **Efficiency Optimized Comfort Sys. Sizing** |  | **Perf. Optimized Comfort System** | **Smooth Operation Comfort System** |
| **Heating/ Cooling Equipment Sizing** | **Engineered Comfort Equipment** | **Engineered Comfort Equipment** | **Moisture Control Comfort Equipment** | **Efficiency Optimized Comfort Equipment** |  | **Perf. Optimized Comfort Equipment** | **Smooth Operation Comfort Equipment** |
| **Duct Distribution Sizing** | **Engineered Comfort Delivery System** | **Engineered Comfort Delivery System** |  |  |  | **Performance-Sized Comfort Delivery Sys.** |  |
| **Duct Terminal Sizing** | **Engineered Comfort Outlets** | **Engineered Comfort Outlets** |  |  |  | **Perf. Optimized Comfort Outlets** |  |
| **Quality Duct Installation** | **Premium-Installed Comfort Delivery System** | **Ensured Flow Comfort Delivery System** | **Contaminant Protected Comfort Delivery System** | **Efficiency Optimized Comfort Delivery System** |  | **Performance Optimized Comfort Delivery System** |  |
| **Proper Duct Installation** | **Premium-Installed Comfort Delivery Ducts** | **Flow Controlled Comfort Delivery Ducts** |  |  |  | **Premium-Installed Comfort Delivery Ducts** |  |
| **Tight Duct Sealing** | **Premium-Sealed Comfort Delivery Ducts** | **Leak Controlled Comfort Delivery Ducts** | **Contaminant Sealed Comfort Delivery Ducts** |  |  | **Premium-Sealed Comfort Delivery Ducts** |  |
| **Pressure Balancing Bedrooms** | **Comfort Balanced Rooms** | **Comfort Balanced Rooms** |  | **High-Efficiency Comfort Balancing [if in conditioned space]** |  | **Premium-Balanced Comfort Delivery System** |  |
| **Ducted Returns** | **Optimized Air Flow Comfort Delivery** | **Optimized Air Flow Comfort Delivery** |  | **High-Efficiency Comfort Balancing [if in conditioned space]** |  | **Premium-Balanced Comfort Delivery Sys.** |  |
| **Transfer Grills** | **Comfort Vent** | **Comfort Vent** |  | **High-Efficiency Comfort Balancing** |  | **Premium-Balanced Comfort Delivery Sys.** |  |
| **Jump Ducts** | **Comfort Vent** | **Comfort Vent** |  |  |  | **Premium-Balanced Comfort Delivery Sys.** |  |
| **HVAC Ducts In Conditioned Space** | **Perf. Optimized Comfort Delivery System Placement** | **Perf. Optimized Comfort Delivery System Placement** |  | **High-Efficiency Comfort Delivery System Placement** | **Advanced Placement Comfort Delivery System** |  |  |
| **HVAC Ducts in Unvented Attics** | **Perf. Optimized Sealed Attic Comfort Delivery System** | **Perf. Optimized Sealed Attic Comfort Delivery System** |  | **High-Efficiency Sealed Attic Comfort Delivery System** | **Advanced Sealed Attic Comfort Delivery System** |  |  |

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| **Engineered Comfort** | **Healthful Environment** | **Ultra-Efficient** | **Advanced Technology** | **Quality Built** | **Enhanced Durability** |
| **HVAC System HVAC Ducts in Conditioned Space (continued)** |  |  |  |  |  |  |  |
| **HVAC Ducts in Unvented Basement/Crawl Space** | **Perf. Optimized Lower Level/Crawl Space Comfort Delivery System** | **Perf. Optimized Lower Level/Crawl Space Comfort Delivery System** |  | **High-Efficiency Lower Level/Crawl Space Comfort Delivery System** | **Advanced Lower Level/Crawl Space Comfort Delivery System** |  |  |
| **HVAC Ducts in Dropped Ceilings** | **Perf. Optimized Dropped Ceiling Comfort Delivery Sys.** | **Perf. Optimized Dropped Ceiling Comfort Delivery Sys.** |  | **High-Efficiency Dropped Ceiling Comfort Delivery Sys.** | **Advanced Dropped Ceiling Comfort Delivery System** |  |  |
| **HVAC Ducts in Raised Ceiling Sections** | **Perf. Optimized Raised Ceiling Comfort Delivery Sys.** | **Perf. Optimized Raised Ceiling Comfort Delivery Sys.** |  | **High-Efficiency Raised Ceiling Comfort Delivery Sys.** | **Advanced Raised Ceiling Comfort Delivery System** |  |  |
| **HVAC Ducts in Interstitial Floor Framing** | **Perf. Optimized In- Floor Comfort Delivery System** | **Perf. Optimized In- Floor Comfort Delivery System** |  | **High-Efficiency in- Floor Comfort Delivery System** | **Advanced In-Floor Comfort Delivery System** |  |  |
| **Vented Attics with Buried HVAC Ducts** | **Perf. Optimized Attic Insulated Comfort Delivery System** | **Perf. Optimized Attic Insulated Comfort Delivery System** |  | **High-Efficiency Attic Insulated Comfort Delivery System** | **Advanced Attic Insulated Comfort Delivery System** |  |  |
| **Ventilation (see Indoor Environment System)** |  |  |  |  |  |  |  |
| **Dehumidification** | **Whole-House Moisture Control System** | **Whole-House Humidity Control** | **Whole-House Moisture Control System** |  |  |  | **Whole-House Excessive Humidity Protection System** |
| **HVAC****w/Integrated Dehumidification** | **Comfort System with Integrated Moisture Control System** | **Comfort System with Integrated Humidity Control** | **Whole-House Moisture Control System** |  |  |  | **Whole-House Excessive Humidity Protection System** |
| **Whole-House Dehumidification** | **Whole-House Moisture Control System** | **Whole-House Humidity Control System** | **Whole-House Moisture Control System** |  |  |  | **Whole-House Excessive Humidity Protection System** |
| **HVAC System Diagnostics New Homes** | **Comfort System Certified Performance** |  |  |  |  | **Comfort System Certified Performance** |  |
| **HVAC Diagnostics for Existing Homes** | **Comfort System Check-up** |  |  |  |  | **Comfort System Check-up** |  |

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| **Efficient Components** | **Advanced Technology Components** |  |  | **High-Efficiency or Super Components** | **Advanced Technology Components** |  |  |
| **High-Efficiency HVAC Equipment** | **Advanced Comfort Technology** |  |  | **High-Efficiency or Super Comfort System** | **Advanced Comfort Technology** |  |  |
| High-Efficiency Heat Pumps/AC | **Advanced Heat Pump/AC Technology** |  |  | **High-Efficiency or Super Heat Pump/AC** | **Advanced Heat Pump/AC Technology** |  |  |
| Air Source Heat Pump/AC | **Advanced Heat Pump/AC Technology** |  |  | **High-Efficiency or Super Heat Pump/AC** | **Advanced Heat Pump/AC Technology** |  |  |
| Geothermal Heat Pump | **Advanced Geo Heat Pump Technology** |  |  | **High-Efficiency or Super Geo Heat Pump** | **Advanced Geo Heat Pump Technology** |  |  |
| Ductless Mini- Split Heat Pump | **Advanced Ductless Heat Pump Technology** |  |  | **High-Efficiency or Super Ductless Heat Pump Technology** | **Advanced Ductless Heat Pump Technology** |  |  |
| High-Efficiency Gas Furnace | **Advanced Furnace Technology** |  | **Combustion Process Isolated Furnace** | **High-Efficiency Furnace Technology** | **Advanced Furnace Technology** |  |  |
| High-Efficiency Gas Boiler | **Advanced Boiler Technology** |  | **Combustion Process Isolated Boiler** | **High-Efficiency Boiler Technology** | **Advanced Boiler Technology** |  |  |
| High-Efficiency Oil Boiler | **Advanced Boiler Technology** |  |  | **High-Efficiency Boiler Technology** | **Advanced Boiler Technology** |  |  |
| Variable Speed HVAC System | **Advanced Comfort Flow Technology** | **Optimized Performance Comfort System** |  | **High-Efficiency or Super Comfort Flow Technology** | **Advanced Comfort Flow Technology** |  |  |
| Night-Time Mech. Ventilation Cooling | **Advanced Fresh Air Cooling Technology** |  |  | **Advanced Fresh Air Cooling Technology** | **Advanced Fresh Air Cooling Technology** |  |  |
| High-Efficiency Integrated Equip. | **Advanced Combined Comfort and Water Heating Technology** |  | **Combustion Process Isolated Combined Comfort and Water Heating (gas only)** | **High-Efficiency Combined Comfort and Water Heating** | **Advanced Combined Comfort and Water Heating Technology** |  |  |
| HVAC Controls/ Programmable Thermostat | **Advanced Comfort Control Technology** |  |  | **High-Efficiency Comfort Control** | **Advanced Comfort Control Technology** |  |  |

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| **Eff. Comp. (cont.)** |  |  |  |  |  |  |  |
| **High-Efficiency Water Heating** | **Advanced Water Heating Technology** |  |  | **High-Efficiency Water Heating** | **Advanced Water Heating Technology** |  |  |
| Storage Water Heater | **Advanced Water Heating Technology** |  |  | **High-Efficiency Water Heating** | **Advanced Water Heating Technology** |  |  |
| Gas Storage Water Heater | **Advanced Gas Water Heating Technology** |  |  | **High-Efficiency Gas Water Heating** | **Advanced Gas Water Heating Technology** |  |  |
| Heat Pump Water Heater | **Advanced Heat Pump Water Heating Technology** | **Cooling Enhanced Water Heater** | **Dehumidification Enhanced Water Heater** | **High-Efficiency Heat Pump Water Heating** | **Advanced Heat Pump Water Heating Technology** |  |  |
| Instantaneous Gas Water Heater (elec. not eff. so excluded) | **Advanced Endless Hot Water Technology** | **Endless Hot Water Technology** |  | **High-Efficiency Endless Hot Water** | **Advanced Endless Hot Water Technology** |  |  |
| Solar Hot Water | **Free Hot Water Solar System** |  |  | **Free Hot Water Solar System** | **Advanced Solar Hot Water Technology** |  |  |
| **High-Efficiency Appliances** | **Advanced Appliance Technology** |  |  | **High-Efficiency or Super Appliances** | **Advanced Appliance Technology** |  |  |
| High-Efficiency Refrigerator | **Advanced Refrigerator** |  |  | **High-Efficiency or Super Refrigerator** | **Advanced Refrigerator** |  |  |
| High-Efficiency Dishwasher | **Advanced Dishwasher** |  |  | **High-Efficiency or Super Dishwasher, Water Saving Dishwasher** | **Advanced Dishwasher** |  |  |
| High-Efficiency Clothes Washer | **Advanced Clothes Washer** |  | **Reduced Detergent Clothes Washer** | **High-Eff. or Super Clothes Washer, Water Saving Clothes Washer** | **Advanced Clothes Washer** |  | **Reduced-Ware Clothes Washer** |
| High-Efficiency Clothes Dryer | **Advanced Clothes Dryer** |  |  | **High-Efficiency or Super Clothes Dryer** | **Advanced Clothes Dryer** |  |  |
| **High-Efficiency Lighting** | **Advanced Lighting Technology** |  |  | **High-Efficiency or Super Lighting** | **Advanced Lighting Technology** |  |  |
| Compact Fluorescent Lighting | **Advanced Lighting Technology** | **Cool Lighting** |  | **High-Efficiency Lighting** | **Advanced Lighting Technology** |  | **Long-Lasting Bulb Lighting** |
| Solid State Lighting | **Advanced Solid State Lighting Technology** | **Cool Lighting** | **Mercury-Free Solid State Lighting** | **High-Eff. or Super Solid State Lighting** | **Advanced Solid State Lighting Technology** |  | **Ultra-Long Lasting Bulb Lighting** |

**Building America Building Science Translator – Page 3c**

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| **Efficient Components (continued)** |  |  |  |  |  |  |  |
| **High-Efficiency Fans** | **Advanced Quiet Fan Technology** |  |  | **High-Efficiency Fan** | **Advanced Performance Fan Technology** |  | **Low-Maintenance Fan Technology** |
| High-Efficiency Bathroom Fans | **High-Efficiency Bathroom Fan** | **Quiet Bathroom Fan** |  | **High-Efficiency Bathroom Fan** | **Advanced Exhaust Fan Technology** |  | **Low-Maintenance Exhaust Fan** |
| High-Efficiency Ceiling Fans | **High-Efficiency Ceiling Fan** | **Quiet Ceiling Fan, Enhanced Air Flow Ceiling Fan** |  | **High-Efficiency Ceiling Fan** | **Advanced Ceiling Fan Technology** |  | **Low-Maintenance Ceiling Fan** |
| **High-Performance Pool Pump System** | **High-Performance Pool Pump System** |  |  | **High-Performance Pool Pump System** | **Advanced Pool Pump System** |  |  |
| High-Efficient Pool Pump | **Super-Efficient Pool Pump** |  |  | **Super-Efficient Pool Pump** | **Advanced Pool Pump Technology** |  |  |
| Quality Pool Pump Installation | **Premium-Installed Pool Pump System** |  |  | **Enhanced Flow Pool Pump System** | **Advanced Pool Pump Installation Practices** | **Premium-Installed Pool Pump** |  |

**Building America Building Science Translator – Page 4a**

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| **Indoor Environment System** | **Whole-House Health Protection System** |  | **Whole-House Health Protection System** |  |  |  |  |
| **Pollutant Source Control** | **Contaminant- Controlled Home** |  | **Contaminant- Controlled Home** |  |  |  |  |
| Radon Resistant Construction | **Radon-Controlled Home** | **Dry Lower Level Construction** | **Radon-Controlled Home** |  |  |  |  |
| Biological Contaminant Control | **Pest-Controlled Home** |  | **Pest-Controlled Home** |  |  |  |  |
| Sealed Construction | **Bug-Controlled Home** |  | **Bug-Controlled Home** |  |  |  |  |
| Corrosion-Proof Screened Vents | **Rodent-Controlled Home** |  | **Rodent-Controlled Home** |  |  |  |  |
| Certified Chemical- Free Products | **Chemical-Controlled Home** |  | **Chemical-Controlled Home** |  |  |  |  |
| No Formaldehyde Pressed Wood | **Formaldehyde- Controlled Home** |  | **Formaldehyde- Controlled Home** |  |  |  |  |
| Low/No VOC Paints and Finishes | **VOC-Controlled Home** |  | **VOC-Controlled Home** |  |  |  |  |
| Low/No VOC Carpets/Pads | **VOC-Controlled Home** |  | **VOC-Controlled Home** |  |  |  |  |
| Combustion By- Product Control | **Combustion Exhaust- Controlled Home** |  | **Combustion Exhaust- Controlled Home** |  |  |  |  |
| Direct/Power Vent Equipment | **Carbon Monoxide- Controlled Equipment** |  | **Carbon Monoxide- Controlled Equipment** |  |  |  |  |
| Proper Ventilated Fireplaces | **Carbon Monoxide- Controlled Fireplace** |  | **Carbon Monoxide- Controlled Fireplace** |  |  |  |  |
| Air Sealed Attached Garage | **Fume-Sealed Garage** |  | **Fume-Sealed Garage** |  |  |  |  |
| Garage Ventilation Fan | **Fume-Exhaust Garage Fan** |  | **Fume-Exhaust Garage Fan** |  |  |  |  |

**Building America Building Science Translator – Page 4b**

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| **Indoor Environment System (continued)** |  |  |  |  |  |  |  |
| **Dilution - Whole- House Ventilation** | **Fresh Air System** |  | **Fresh Air System** |  |  |  |  |
| Supply-Only Ventilation | **Supply Fresh Air System** |  | **Supply Fresh Air System** |  |  |  |  |
| Exhaust-Only Ventilation | **Exhaust Fresh Air System** |  | **Exhaust Fresh Air System** |  |  |  |  |
| Balanced Ventilation | **Balanced Fresh Air System** |  | **Balanced Fresh Air System** |  |  |  |  |
| **Dilution – Spot Ventilation** | **Odor and Moisture Exhaust Fans** |  | **Odor and Moisture Exhaust Fans** |  |  |  |  |
| Kitchen Exhaust Fan | **Kitchen Odor Control Fan** |  | **Kitchen Odor Control Fan** |  |  |  |  |
| Bathroom Exhaust Fan | **Bathroom Odor and Moisture Control Fan** | **Silent Bathroom Fan** | **Bathroom Odor and Moisture Control Fan** |  |  |  |  |
| Garage Ventilation Fan | **Garage Fume Exhaust Fan** |  | **Garage Fume Exhaust Fan** |  |  |  |  |
| **Filtration** | **High-Capture Filtration Technology** |  | **High-Capture Filtration Technology** |  |  |  |  |
| High-MERV Filter | **High Capture Filter** |  | **High Capture Filter** |  |  |  |  |
| Proper Installation of Filter | **Premium-Installed Filtration** |  | **Premium-Installed Filtration** |  |  |  |  |

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| **Original****Building Science Term** | **New Building Science Term** | **Alternate Terms by Consumer Experience** |
| **Lives Better** | **Works Better** | **Lasts Better** |
| **Engineered Comfort** | **Healthful Environment** | **Ultra-Efficient** | **Advanced Technology** | **Quality Built** | **Enhanced Durability** |
| **Water Management** | **Whole-House Water Protection System** | **Moisture Managed Construction** | **Dry-by-Design Construction** |  |  |  | **Whole-House Water Protection System** |
| **Water Managed Foundation** | **Foundation Water Protection System** | **Moisture Managed Lower Level** | **Dry-by-Design Foundation** |  |  |  | **Foundation Water Protection System** |
| Foundation Capillary Break | **Water Protected Slab Lining** |  | **Dry-by-Design Foundation** |  |  |  | **Water Protected Slab Lining** |
| Foundation Aggregate Drainage | **Water Protected Slab Drainage Layer** |  | **Dry-by-Design Foundation** |  |  |  | **Water Protected Slab Drainage Layer** |
| **Water Managed Walls** | **Water Protection Wall System** | **Moisture Managed Walls** | **Dry-by-Design Walls** |  |  |  | **Water Protection Wall System** |
| Cont./Sealed Weather Resist. Barrier | **Water Barrier Wall Assembly** |  | **Dry-by-Design Walls** |  |  |  | **Water Barrier Wall Assembly** |
| Pan Flashing (doors/windows) | **Water Barrier Window/Door Assembly** |  | **Dry-by-Design Walls** |  |  |  | **Water Barrier Window/Door Assembly** |
| **Water Managed Roof Assembly** | **Water Protection Roof System** | **Moisture Managed Atic** | **Dry-by-Design Roof** |  |  |  | **Water Protection Roof System** |
| Kick-Out Flashing, Step Flashing | **Roof-Wall Water Deflector** |  | **Dry-by-Design Roof** |  |  |  | **Roof-Wall Water Deflector** |
| Heavy Membrane Valley/Eave | **Water Barrier Roof Assembly** |  | **Dry-by-Design Roof** |  |  |  | **Water Barrier Roof Assembly** |
| **Water Managed Building Materials** | **Interior Water Protection System** | **Moisture Managed Interior Rooms** | **Dry-by-Design Materials** |  |  |  | **Interior Water Protection System** |

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| **Disaster Resistance** | **Disaster Resistant Home** | **Peace-of-Mind Disaster Protection** |  |  | **Advanced Disaster Protection Technology** | **Disaster Protection System** | **Disaster Resistant Home** |
| **Severe Weather Resistant Home** | **Severe Storm Resistant Home** |  |  |  | **Advanced Severe Storm Protection Technology** | **Severe Storm Protection System** | **Severe Storm Resistant Home** |
| Wind Resistant Home | **Wind Resistant Home** |  |  |  | **Advanced Wind Protection Tech.** | **Wind Protection System** | **Wind Resistant Home** |
| Hurricane Resistant Home | **Hurricane Resistant Home** |  |  |  | **Advanced Hurricane Protection Tech.** | **Hurricane Protection System** | **Hurricane Resistant Home** |
| Tornado/Hail Resistant Home | **Tornado Resistant Home** |  |  |  | **Advanced Tornado Protection Tech.** | **Tornado Protection System** | **Tornado Resistant Home** |
| Severe Winter Storm Resist. Home | **Winter Storm Resistant Home** |  |  |  | **Advanced Winter Storm Protection Technology** |  | **Winter Storm Resistant Home Snow Resistant Home****Ice-Dam Resistant Home** |
| **Natural Event Resistant Home** | **Natural Event Resistant Home** |  |  |  | **Advanced Natural Event Protection Technology** |  | **Natural Event Resistant Home** |
| Flood Resistant Home | **Flood Resistant Home** |  |  |  | **Advanced Flood Protection Tech.** |  | **Flood Resistant Home** |
| Wildfire Resistant Home | **Wildfire Resistant Home** |  |  |  | **Advanced Wildfire Protection Tech.** |  | **Wildfire Resistant Home** |
| Earthquake Resistant Home | **Earthquake Resistant Home** |  |  |  | **Advanced Earthquake Protection Tech.** |  | **Earthquake Resistant Home** |
| **Pest Resistant Home** | **Pest Resistant Home** |  |  |  | **Advanced Pest Protection Tech.** |  | **Pest Resistant Home** |
| Termite Resistant Home | **Termite Resistant Home** |  |  |  | **Advanced Termite Protection Tech.** |  | **Termite Resistant Home** |
| Integrated Pest Man. Home | **Whole-House Pest Resistance System** |  |  |  | **Advanced Pest Control Technology** |  | **Whole-House Pest Resistance System** |
| **Disaster Resilience** | **Post-Disaster Resilient Home** |  |  |  | **Advanced Disaster Resilience Tech.** |  | **Post-Disaster Resilient Home** |

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| **Original****Building Science****Term** | **New Building Science****Term** | **Alternate Terms by Consumer Experience****Alternate Terms** |
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| **Engineered Comfort** | **Healthful Environment** | **Ultra-Efficient** | **Advanced Technology** | **Quality Built** | **Enhanced Durability** |
| **Water Efficiency** | **Water Saving Home** |  |  | **Water Saving Home** | **Water Saving Smart Technology** |  |  |
| **Water Neutral Home (reclaims as much as it uses for irrigation)** | **Zero Water Irrigation Home** |  |  | **Zero Water Irrigation Home** |  |  |  |
| **Water Efficient Indoor** | **Water Saving Home** |  |  | **Water Saving Home** |  |  |  |
| **Low Flow Fixtures** | **Water Saving Fixtures** |  |  | **Water Saving Fixtures** |  |  |  |  |
| **Water Efficient Appliances** | **Water Saving Appliances** |  |  | **Water Saving Appliances** |  |  |  |  |
| **Efficient Hot Water Distribution** | **On-Demand Hot Water** | **On-Demand Hot Water** |  | **Water Saving Hot Water Distribution** |  |  |  |
| Core Plumbing | **On-Demand Hot Water** | **On-Demand Hot Water** |  | **Water Saving Hot Water Distribution** |  |  |  |
| Manifold Plumbing | **On-Demand Hot Water** | **On-Demand Hot Water** |  | **Water Saving Hot Water Distribution** |  |  |  |
| Demand Pumping System | **On-Demand Water** | **On-Demand Hot Water** |  | **Water Saving Hot Water Distribution** | **Smart Hot Water Distribution** |  |  |
| **Efficient Outdoor Landscaping** | **Water Saving Landscaping** |  |  | **Water Saving Landscaping** |  | **Smart Landscaping** |  |  |
| Efficient Landscape Design | **Water Saving Landscape Design** |  |  | **Water Saving Landscape Design** |  |  |  |
| Efficient Landscape Irrigation | **Water Saving Irrigation** |  |  | **Water Saving Irrigation** |  | **Smart Landscaping Irrigation** |  |  |

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| **Original****Building Science****Term** | **New Building Science****Term** | **Alternate Terms** |
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| **Engineered Comfort** | **Healthful Environment** | **Ultra-Efficient** | **Advanced Technology** | **Quality Built** | **Enhanced Durability** |
| **Passive Solar** | **Natural Comfort Designed Home** | **Natural Comfort Designed Home** |  | **Free Solar Comfort and Lighting** | **Solar Enhanced Design Technology** |  | **Low-Maintenance Natural Comfort** |
| Proper Solar Orientation | **Natural Comfort Oriented Home** | **Natural Comfort Oriented Home** |  | **Free Solar Comfort and Lighting** |  |  |  |
| Solar Shaded Windows (Overhangs) | **Natural Comfort Window Shading** | **Natural Comfort Window Shading** |  | **Free Solar Cooling** |  |  |  |
| Daylighting | **Natural Lighting** | **Natural Lighting** | **Enhanced Natural Light Home** | **Free Solar Lighting** |  |  |  |
| Thermal Mass | **Natural Radiant Heating and Cooling** | **Natural Radiant Heating and Cooling** |  | **Optimized Free Solar Heating and Cooling** | **Advanced Natural Comfort Technology** |  | **No-Maintenance Natural Comfort System** |
| Natural Ventilation Cooling | **Natural Fresh Air Cooling** | **Natural Fresh Air Cooling** |  | **Free Fresh Air Cooling** |  |  |  |  |
| Cool Roof | **Natural Cooling Roof** | **Natural Cooling Roof** |  |  |  | **Advanced Solar Control Roof Technology** |  |  |
| **Solar Ready Home** | **Zero Energy Ready Home** |  |  | **Zero Energy Ready Home** |  |  |  |
| Solar Electric Ready Home | **Zero Energy Ready Home** |  |  | **Zero Energy Ready Home** |  |  |  |
| Solar DHW Ready Home | **Solar Hot Water Ready Home** |  |  | **Free Hot Water Ready Home** | **Solar Hot Water Ready Home** |  |  |
| **Whole-House Solutions** |
| **High-Performance Home** | **High-Performance Home** | **Whole-House Comfort** | **Healthful Environment Improved Home** | **High-Efficiency Home** | **Advanced Energy Efficient Home** | **Premium-Installed Energy Efficiency Home** | **Enhanced Durability Home** |
| **Whole-House Retrofit** | **Home Performance Upgrade** | **Whole-House Comfort** | **Healthful Environment Improved Home** | **High-Efficiency Upgrade** | **Smart Home Upgrade** | **Premium-Installed Energy Upgrade Home** | **Enhanced Durability Home** |
| **Deep Energy Retrofit** | **Whole-House Energy Make-over** | **Whole-House Comfort Upgrade** | **Healthful Environment Improved Home** | **Super Energy Upgrade** |  | **Advanced Technology Enhanced Home** | **Premium-Installed Energy Upgrade Home** | **Enhanced Durability Improved Home** |
| **Net-Zero Energy Home** | **Zero Energy Ready Home** | **Engineered Comfort Home** | **Healthful Environment Home** | **Ultra-Efficient Energy Home** | **Advanced Technology Home** | **Quality Built Home** | **Enhanced Durability Home** |

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| **Building Science Measure** | **New Building Science Terminology** | **Alternate Terms** |
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| **Home Commissioning (HC)** | **Home Performance Assessment** |  |  |  |  | **Home Performance Assessment** |  |
| **Home Energy Rating System (HERS)** | **Home Energy Rating System** |  |  |  | **Advanced Home Energy Assessment** | **Home Energy Rating Assessment** |  |
| **Energy Audit (e.g., Home Energy Score)** | **Energy Check-up** |  |  |  | **Advanced Home Performance Diagnostics** | **Energy Check-up** |  |
| **Home Diagnostic Testing** | **Home Performance Tested** |  |  |  | **Advanced Home Performance Diagnostics** | **Home Performance Tested** |  |
| Blower Door Test | **Tight Construction Tested** |  |  |  | **Advanced Air Leakage Diagnostics** | **Tight Construction Tested** |  |
| Duct Blaster Test | **Comfort Delivery Tested** |  |  |  | **Advanced Comfort Delivery Diagnostics** | **Comfort Delivery Tested** |  |
| Combust. App. Zone (CAZ) Test | **Combustion Safety Tested** |  |  |  | **Advanced Combustion Safety Diagnostics** | **Combustion Safety Tested** |  |
| Infrared Camera Inspections | **Home Thermal X-Ray Tested** |  |  |  | **Building Imaging Technology** | **Home Thermal X-Ray Tested** |  |

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**by 5:00 PM EST Friday, July 11, 2014**