

HUPPENTHAL FLOOR AMENDMENT #2

SENATE AMENDMENTS TO H.B. 2332

(Reference to House engrossed bill)

1 Page 19, between lines 10 and 11, insert:

2 "3. ENERGY EFFICIENT BUILDING COMPONENTS, RENEWABLE ENERGY EQUIPMENT
3 AND COMBINED HEAT AND POWER SYSTEMS ARE CONSIDERED TO ADD NO VALUE TO THE
4 PROPERTY, IF THE PROPERTY OWNER PROVIDES THE COUNTY ASSESSOR WITH
5 DOCUMENTATION OF ALL ELEMENTS THAT QUALIFY PURSUANT TO THIS PARAGRAPH,
6 INCLUDING DOCUMENTS SHOWING ACTUAL ACQUISITION AND INSTALLATION COSTS. THE
7 DOCUMENTATION MUST BE SUBMITTED TO THE COUNTY ASSESSOR NO LATER THAN SIX
8 MONTHS BEFORE THE NOTICE OF FULL CASH VALUE IS ISSUED FOR THE INITIAL
9 EVALUATION YEAR PURSUANT TO SECTION 42-15101 OR, IF THE COMPONENT IS ADDED
10 AFTER SEPTEMBER 30 OF THE PRECEDING YEAR, NO LATER THAN MARCH 31 OF THE
11 INITIAL VALUATION YEAR. FOR THE PURPOSES OF THIS PARAGRAPH:

12 (a) "COMBINED HEAT AND POWER SYSTEM" MEANS A SYSTEM THAT GENERATES
13 ELECTRICITY OR MECHANICAL POWER AND USEFUL THERMAL ENERGY IN A SINGLE,
14 INTEGRATED SYSTEM SUCH THAT THE USEFUL POWER OUTPUT OF THE FACILITY PLUS
15 ONE-HALF THE USEFUL THERMAL OUTPUT DURING ANY 12-MONTH PERIOD IS NO LESS THAN
16 42.5 PER CENT OF THE TOTAL ENERGY INPUT OF FUEL TO THE FACILITY.

17 (b) "ENERGY EFFICIENT BUILDING COMPONENTS" MEANS HIGH PERFORMANCE
18 SUSTAINABLE BUILDING COMPONENTS INSTALLED SO THAT THE BUILDINGS OR BUILDING
19 COMPONENTS MEET OR EXCEED THE ENERGY EFFICIENCIES PRESCRIBED BY THE UNITED
20 STATES ENVIRONMENTAL PROTECTION AGENCY ENERGY STAR PROGRAM OR BY A LEADERSHIP
21 IN ENERGY AND ENVIRONMENTAL DESIGN GREEN BUILDING RATING STANDARD DEVELOPED
22 BY THE UNITED STATES GREEN BUILDING COUNCIL, OR AN EQUIVALENT GREEN BUILDING
23 STANDARD, OR THAT ARE AT LEAST FIFTEEN PER CENT MORE ENERGY EFFICIENT THAN
24 THE INTERNATIONAL ENERGY CONSERVATION CODE IN EFFECT AT THE TIME OF BUILDING
25 PERMIT ISSUANCE.

26 (c) "RENEWABLE ENERGY EQUIPMENT" MEANS EQUIPMENT THAT IS USED TO
27 PRODUCE ENERGY PRIMARILY FOR ON-SITE CONSUMPTION FROM RENEWABLE RESOURCES,

1 INCLUDING WIND, FOREST THINNINGS, AGRICULTURAL WASTE, BIOGAS, BIOMASS,
2 GEOTHERMAL, LOW-IMPACT HYDROPOWER AND SOLAR ENERGY NOT INCLUDED UNDER
3 PARAGRAPH 2 OF THIS SUBSECTION.”

4 Page 19, after line 19, insert:

5 “Sec. 6. Section 44-1375, Arizona Revised Statutes, is amended to
6 read:

7 44-1375. Definitions

8 In this article, unless the context otherwise requires:

9 1. "Automatic commercial icemaker" means a factory made assembly that
10 is shipped in one or more packages, that consists of a condensing unit and
11 icemaking section operating as an integrated unit, that makes and harvests
12 ice cubes and that may store or dispense ice. Automatic commercial icemaker
13 includes machines with capacities between fifty and two thousand five hundred
14 pounds per twenty-four hours.

15 2. "Ballast" means a device used with an electric discharge lamp to
16 obtain necessary circuit conditions such as voltage, current and waveform for
17 starting and operating the lamp.

18 3. "Commercial clothes washer" means a soft mount horizontal or
19 vertical axis clothes washer that both:

20 (a) Has a clothes container compartment no greater than three and
21 one-half cubic feet in the case of a horizontal axis product or no greater
22 than four cubic feet in the case of a vertical axis product.

23 (b) Is designed for use by more than one household, such as in
24 multifamily housing, apartments or coin laundries.

25 4. "Commercial prerinse spray valve" means a handheld device designed
26 to spray water on dishes, flatware and other food service items for the
27 purpose of removing food residue prior to cleaning.

28 5. "Commercial refrigerator, freezer and refrigerator freezer" means
29 self-contained refrigeration equipment that:

30 (a) Is not a consumer product as regulated pursuant to 42 United
31 States Code chapter 77.

1 (b) Operates at a chilled, frozen, combination chilled-frozen or
2 variable temperature for the purpose of storing or merchandising food,
3 beverages or ice.

4 (c) May have transparent or solid or both transparent and solid hinged
5 doors, sliding doors or a combination of hinged and sliding doors.

6 (d) Incorporates most components involved in the vapor-compression
7 cycle and the refrigerated compartment in a single cabinet.

8 (e) Does not include:

9 (i) Units with eighty-five cubic feet or more of internal volume.

10 (ii) Walk-in refrigerators or freezers.

11 (iii) Units with no doors.

12 (iv) Freezers specifically designed for ice cream.

13 6. "High-intensity discharge lamp" means a lamp in which light is
14 produced by the passage of an electric current through a vapor or gas and in
15 which the light producing arc is stabilized by bulb wall temperature and the
16 arc tube has a bulb wall loading in excess of three watts per square
17 centimeter.

18 7. "Illuminated exit sign" means an internally illuminated sign that
19 is designed to be permanently fixed in place to identify a building exit and
20 that consists of an electrically powered integral light source that both
21 illuminates the legend "exit" and any directional indicators and provides
22 contrast between the legend, any directional indicators and the background.

23 8. "Large packaged air conditioning equipment" means electrically
24 operated, air cooled air conditioning and air conditioning heat pump
25 equipment that has cooling capacity greater than or equal to two hundred
26 forty thousand Btu per hour but less than seven hundred sixty thousand BTU
27 per hour and that is built as a package and shipped as a whole to end user
28 sites.

29 9. "Low voltage dry type distribution transformer" means a transformer
30 to which all of the following apply:

31 (a) Has an input voltage of six hundred volts or less.

32 (b) Is air cooled.

1 (c) Does not use oil as a coolant.

2 (d) Is rated for operation at a frequency of sixty hertz.

3 10. "Metal halide lamp" means a high intensity discharge lamp in which
4 the major portion of the light is produced by radiation of metal halides and
5 their products of dissociation, possibly in combination with metallic vapors.

6 11. "Metal halide lamp fixture" means a light fixture designed to be
7 operated with a metal halide lamp and a ballast for a metal halide lamp.

8 12. "PORTABLE ELECTRIC SPA" MEANS A FACTORY-BUILT ELECTRIC SPA OR HOT
9 TUB THAT IS SUPPLIED WITH EQUIPMENT FOR HEATING AND CIRCULATING WATER.

10 ~~12.~~ 13. "Probe start metal halide ballast" means a ballast used to
11 operate metal halide lamps that does not contain an ignitor and which instead
12 starts lamps by using a third starting electrodeprobe in the arc tube.

13 ~~13.~~ 14. "Pulldown refrigerator" means a commercial refrigerator
14 specifically designed to rapidly reduce all integrated product temperatures
15 from ninety degrees fahrenheit to thirty-eight degrees fahrenheit over a
16 twelve hour period when fully loaded with beverage containers.

17 15. "RESIDENTIAL POOL PUMP" MEANS A PUMP THAT IS USED TO CIRCULATE AND
18 FILTER RESIDENTIAL SWIMMING POOL WATER IN ORDER TO MAINTAIN CLARITY AND
19 SANITATION AND THAT CONSISTS, IN PART, OF A MOTOR AND AN IMPELLER AND
20 HOUSING.

21 16. "RESIDENTIAL POOL PUMP MOTOR" MEANS A DEFINITE PURPOSE MOTOR
22 DESIGNED FOR USE IN A RESIDENTIAL POOL PUMP.

23 ~~14.~~ 17. "Single voltage external AC to DC power supply" means a device
24 that:

25 (a) Is designed to convert line voltage AC input into lower voltage DC
26 output.

27 (b) Is able to convert to only one DC output voltage at a time.

28 (c) Is sold with, or intended to be used with, a separate end use
29 product that constitutes the primary power load.

30 (d) Is contained within a separate physical enclosure from the end use
31 product.

1 (e) Is connected to the end use product via a removable or hard wired
2 male/female electrical connection, cable, cord or other wiring.

3 (f) Does not have batteries or battery packs, including those that are
4 removable and that physically attach directly to the power supply unit.

5 (g) Does not have a battery chemistry or type selector switch and
6 indicator light or does not have a battery chemistry or type selector switch
7 and a state of charge meter.

8 (h) Has a nameplate output power less than or equal to two hundred
9 fifty watts.

10 ~~15-~~ 18. "Torchiere" means a portable electric lighting fixture with a
11 reflective bowl that directs light upward onto a ceiling so as to produce
12 indirect illumination on the surfaces below. A torchiere may include
13 downward directed lamps in addition to the upward, indirect illumination.

14 ~~16-~~ 19. "Traffic signal module" means a standard eight inch or twelve
15 inch traffic signal indication, consisting of a light source, a lens and all
16 other parts necessary for operation.

17 ~~17-~~ 20. "Transformer" means a device that consists of two or more
18 coils of insulated wire and that is designed to transfer alternating current
19 by electromagnetic induction from one coil to another to change the original
20 voltage or current value. Transformer does not include:

21 (a) Transformers with multiple voltage taps, with the highest voltage
22 tap equaling at least twenty per cent more than the lowest voltage tap.

23 (b) Transformers, such as those commonly known as drive transformers,
24 rectifier transformers, auto transformers, uninterruptible power system
25 transformers, impedance transformers, regulating transformers, sealed and
26 nonventilating transformers, machine tool transformers, welding transformers,
27 grounding transformers or testing transformers, that are designed to be used
28 in a special purpose application and that are unlikely to be used in general
29 purpose applications.

30 ~~18-~~ 21. "Unit heater" means a self-contained, vented fan type
31 commercial space heater that uses natural gas or propane and that is designed
32 to be installed without ducts within a heated space, except that unit heater

1 does not include any products covered by federal standards established
2 pursuant to 42 United States Code chapter 77 or any product that is a direct
3 vent, forced flue heater with a sealed combustion burner.

4 Sec. 7. Section 44-1375.01, Arizona Revised Statutes, is amended to
5 read:

6 44-1375.01. Applicability

7 A. This article applies to the following types of new products sold,
8 offered for sale or installed in this state:

- 9 1. Automatic commercial icemakers.
- 10 2. Commercial clothes washers.
- 11 3. Commercial prerinse spray valves.
- 12 4. Commercial refrigerators, freezers and refrigerator freezers.
- 13 5. Illuminated exit signs.
- 14 6. Large packaged air conditioning equipment.
- 15 7. Low voltage dry type distribution transformers.
- 16 8. Metal halide lamp fixtures.
- 17 9. Single voltage external AC to DC power supplies.
- 18 10. Torchieres.
- 19 11. Traffic signal modules.
- 20 12. Unit heaters.
- 21 13. PORTABLE ELECTRIC SPAS.
- 22 14. RESIDENTIAL POOL PUMPS AND RESIDENTIAL POOL PUMP MOTORS.

23 B. This article does not apply to:

- 24 1. New products manufactured in this state and sold outside this
25 state.
- 26 2. New products manufactured outside this state and sold at wholesale
27 inside this state for final retail sale and installation outside this state.
- 28 3. Products installed in mobile manufactured homes at the time of
29 construction.
- 30 4. Products designed expressly for installation and use in
31 recreational vehicles.

1 5. Products installed in a laundry facility located within an
2 apartment complex or mobile home park at the time of construction or
3 replacement. For the purposes of this paragraph, "apartment complex" means
4 any real property that has one or more structures and that contains four or
5 more dwelling units for rent or lease that are subject to the Arizona
6 residential landlord and tenant act prescribed by title 33, chapter 10.

7 Sec. 8. Section 44-1375.02, Arizona Revised Statutes, is amended to
8 read:

9 44-1375.02. Standards

10 A. Except as provided in subsection ~~B~~ C, the following standards
11 apply beginning January 1, 2008:

12 1. Automatic commercial icemakers shall meet the requirements of
13 section 1605.3 of the California Code of Regulations, title 20: division 2,
14 chapter 4, article 4, in effect on ~~the effective date of this article~~ AUGUST
15 12, 2005.

16 2. Commercial clothes washers shall meet the requirements of section
17 1605.3 of the California Code of Regulations, title 20: division 2, chapter
18 4, article 4, in effect on ~~the effective date of this article~~ AUGUST 12,
19 2005.

20 3. Commercial prerinse spray valves shall have a flow rate equal to or
21 less than 1.6 gallons per minute.

22 4. Commercial refrigerators, freezers and refrigerator freezers shall
23 meet the requirements of section 1605.3 of the California Code of
24 Regulations, title 20: division 2, chapter 4, article 4, in effect on ~~the~~
25 ~~effective date of this article~~ AUGUST 12, 2005, except that pulldown
26 refrigerators with transparent doors shall meet a requirement five per cent
27 less stringent than shown in the California regulations.

28 5. Illuminated exit signs shall have an input power demand of five
29 watts or less per illuminated face and shall either have a power factor of at
30 least 0.70 or meet the power factor product specification of the energy star
31 program requirements, whichever is higher.

1 6. Large packaged air conditioning equipment shall meet a minimum
2 energy efficiency ratio of 10.0 for air conditioning without an integrated
3 heating component or with electric resistance heating integrated into the
4 unit, 9.8 for air conditioning with heating other than electric resistance
5 integrated into the unit, 9.5 for air conditioning heat pumps without an
6 integrated heating component or with electric resistance heating integrated
7 into the unit and 9.3 for air conditioning heat pump equipment with heating
8 other than electric resistance integrated into the unit. Large packaged air
9 conditioning heat pumps shall meet a minimum coefficient of performance in
10 the heating mode of 3.2 measured at a high temperature rating of forty-seven
11 degrees Fahrenheit.

12 7. ~~THROUGH DECEMBER 31, 2010,~~ low voltage dry type distribution
13 transformers shall meet the class 1 efficiency levels for low voltage
14 distribution transformers specified in table 4-2 of the guide for determining
15 energy efficiency for distribution transformers, published by the national
16 electrical manufacturers association (NEMA standard TP-1-2002), in effect on
17 ~~the effective date of this article~~ AUGUST 12, 2005.

18 8. Metal halide lamp fixtures designed to be operated with lamps rated
19 greater than or equal to one hundred fifty watts but less than or equal to
20 five hundred watts shall not contain a probe start metal ~~halid~~ HALIDE lamp
21 ballast.

22 9. Single voltage external AC to DC power supplies shall meet the tier
23 one energy efficiency requirements of section 1605.3 of the California Code
24 of Regulations, title 20: division 2, chapter 4, article 4, in effect on ~~the~~
25 ~~effective date of this article~~ AUGUST 12, 2005. This standard applies to
26 single voltage AC to DC power supplies that are sold individually and to
27 those that are sold as a component of or in conjunction with another product.

28 10. Torchieres shall not use more than one hundred ninety watts. A
29 torchiere shall be deemed to use more than one hundred ninety watts if any
30 commercially available lamp or combination of lamps can be inserted in its
31 socket and cause the torchiere to draw more than one hundred ninety watts
32 when operated at full brightness.

1 11. Traffic signal modules shall meet the product specification of the
2 energy star program requirements for traffic signals developed by the United
3 States environmental protection agency that took effect in February 2001,
4 shall have a power factor of at least 0.90 and shall be installed with
5 compatible, electrically connected signal control interface devices and
6 conflict monitoring systems.

7 12. Unit heaters shall be equipped with an intermittent ignition device
8 and shall have either power venting or an automatic flue damper.

9 B. BEGINNING JANUARY 1, 2012, THE FOLLOWING STANDARDS APPLY:

10 1. PORTABLE ELECTRIC SPAS SHALL NOT HAVE A NORMALIZED STANDBY POWER
11 GREATER THAN FIVE TIMES THE SPA'S FILL VOLUME IN GALLONS RAISED TO THE TWO-
12 THIRDS POWER.

13 2. RESIDENTIAL POOL PUMPS AND RESIDENTIAL POOL PUMP MOTORS SHALL
14 COMPLY WITH BOTH OF THE FOLLOWING:

15 (a) MOTORS SHALL NOT BE SPLIT-PHASE OR CAPACITOR START-INDUCTION RUN
16 TYPE MOTORS, EXCEPT FOR THE FOLLOWING:

17 (i) THE LOW-SPEED SECTION OF TWO-SPEED MOTORS MAY BE CAPACITOR
18 START-INDUCTION RUN TYPE.

19 (ii) FORTY-EIGHT-FRAME MOTORS DESIGNED FOR USE WITH ABOVE-GROUND POOLS
20 ARE EXEMPT FROM THIS REQUIREMENT.

21 (b) MOTORS WITH A TOTAL HORSEPOWER CAPACITY OF ONE OR MORE SHALL HAVE
22 THE CAPABILITY OF OPERATING AT TWO OR MORE SPEEDS WITH A LOW SPEED HAVING A
23 ROTATION RATE THAT IS NO MORE THAN ONE-HALF OF THE MOTOR'S MAXIMUM ROTATION
24 RATE AND SHALL BE OPERATED WITH A PUMP CONTROL WITH THE CAPABILITY OF
25 OPERATING THE PUMP AT TWO OR MORE SPEEDS. RESIDENTIAL POOL PUMP MOTOR
26 CONTROLS THAT ARE SOLD FOR USE WITH A TWO OR MORE SPEED MOTOR SHALL HAVE A
27 DEFAULT CIRCULATION SPEED SETTING NO MORE THAN ONE-HALF OF THE MOTOR'S
28 MAXIMUM ROTATION RATE. ANY HIGH SPEED OVERRIDE CAPABILITY SHALL BE FOR A
29 TEMPORARY PERIOD NOT TO EXCEED ONE TWENTY-FOUR HOUR CYCLE WITHOUT RESETTING
30 TO THE DEFAULT SETTING.

1 ~~B.~~ C. The standards prescribed by subsection A apply beginning
2 January 1, 2010, if the product is a commercial refrigerator, freezer or
3 refrigerator freezer or large packaged air conditioning equipment.

4 ~~C.~~ D. Beginning on May 31, 2008, and every three years thereafter,
5 the department of commerce energy office shall conduct a comparative review
6 and assessment of the standards prescribed by subsection A and energy
7 efficiency standards adopted in other states. The department of commerce
8 energy office shall:

9 1. Submit a report of its findings and recommendations to the speaker
10 of the house of representatives and president of the senate.

11 2. Provide a copy of the report to the director of the Arizona state
12 library, archives and public records.”

13 Renumber to conform

14 Amend title to conform

6/27/09
3:09 PM
S: SM/tam