

Second Regular Session  
Sixty-fourth General Assembly  
STATE OF COLORADO

INTRODUCED

LLS NO. 04-0501.01 Beth Braby

HOUSE BILL 04-1183

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**HOUSE SPONSORSHIP**

**Borodkin**, Boyd, Hodge, McGihon, Plant, and Weddig

**SENATE SPONSORSHIP**

(None),

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**House Committees**

Transportation & Energy  
Appropriations

**Senate Committees**

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**A BILL FOR AN ACT**

101 **CONCERNING ENERGY EFFICIENCY STANDARDS FOR SPECIFIED**  
102 **DEVICES.**

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**Bill Summary**

*(Note: This summary applies to this bill as introduced and does not necessarily reflect any amendments that may be subsequently adopted.)*

Declares that the use of more energy-efficient appliances can save money, conserve water, reduce pollution and brownouts, avoid utility infrastructure costs, and benefit local economies.

Adopts statutory standards for the energy efficiency of specified household appliances, commercial equipment, and traffic signals sold in Colorado on or after January 1, 2007, or installed in Colorado on or after January 1, 2008.

Makes conforming amendments.

Shading denotes HOUSE amendment. Double underlining denotes SENATE amendment.  
*Capital letters indicate new material to be added to existing statute.*  
*Dashes through the words indicate deletions from existing statute.*

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1 *Be it enacted by the General Assembly of the State of Colorado:*

2 **SECTION 1.** 6-7-101, Colorado Revised Statutes, is amended to  
3 read:

4 **6-7-101. Short title.** This article shall be known and may be cited  
5 as the "~~Residential Building~~ "COLORADO Energy Conservation Act". of  
6 1977".

7 **SECTION 2.** 6-7-102, Colorado Revised Statutes, is amended to  
8 read:

9 **6-7-102. Legislative declaration.** (1) The general assembly  
10 hereby finds and declares that:

11 (a) The energy resources of this state and the nation are essential  
12 to the preservation of the public health, welfare, and safety and to the  
13 maintenance of a healthy economy;

14 (b) The conservation and efficient use of said energy resources are  
15 necessary if the quality of life in this state is to be maintained and  
16 continued;

17 (c) The purpose of this article is to provide minimum uniform  
18 statewide ~~insulation~~ standards to achieve energy conservation in the  
19 construction and renovation of residential buildings AND THE EFFICIENT  
20 DESIGN AND MANUFACTURE OF HOME APPLIANCES, and to encourage  
21 energy conservation ~~by other means in the construction and renovation~~  
22 ~~of residential buildings~~ GENERALLY, recognizing that such energy  
23 conservation ~~by insulation or other means~~ must be life cycle  
24 cost-effective in order to minimize the adverse impact ~~on residential~~  
25 ~~life-styles and to continue to strive to make reasonably priced housing~~

1 ~~available to all residents of this state~~ OF INCREASING POPULATION  
2 DENSITY;

3 (d) The general assembly recognizes the technological  
4 improvements developed by the home-building ~~industry~~ AND  
5 MANUFACTURING INDUSTRIES in connection with energy conservation ~~for~~  
6 ~~residential buildings~~ and wishes to encourage continued technological  
7 improvement ~~by the home-building industry~~ in order to exceed the  
8 ~~insulation~~ energy conservation standards contained in this article;

9 (e) It is the further purpose to ~~establish a process which will result~~  
10 ~~in the development of residential energy conserving performance~~  
11 ~~standards by September 1, 1977. Such standards shall consider~~ PROMOTE  
12 CONSUMER AWARENESS OF THE NEED FOR EFFICIENCY IN all uses of energy  
13 generated by fossil fuels ~~used~~ within a dwelling, including energy used  
14 for lighting, cooking, appliances, maintenance of air temperature, and  
15 heating water and the energy lost through the building envelope and  
16 exhaust pipes. It is consistent with public policy to encourage the  
17 rehabilitation, preservation, and restoration of buildings ~~built before~~  
18 ~~September 1, 1977~~ IN ACCORDANCE WITH THE MOST RECENT STANDARDS  
19 WHENEVER PRACTICABLE.

20 (f) ENERGY EFFICIENCY STANDARDS, AS SET FORTH IN PART 2 OF  
21 THIS ARTICLE, ARE OF PARTICULAR BENEFIT IN ACHIEVING THESE PURPOSES  
22 BECAUSE:

23 (I) SUCH STANDARDS ASSURE CONSUMERS AND BUSINESSES THAT  
24 THE APPLIANCES THEY PURCHASE WILL PERFORM EFFICIENTLY, SAVING  
25 THEM MONEY ON UTILITY BILLS;

26 (II) THE WIDESPREAD USE OF MORE EFFICIENT APPLIANCES  
27 REDUCES AIR POLLUTION, WATER CONSUMPTION ASSOCIATED WITH

1 ELECTRICAL GENERATION, AND OTHER ENVIRONMENTAL IMPACTS  
2 ASSOCIATED WITH THE PRODUCTION, DISTRIBUTION, AND USE OF  
3 ELECTRICITY AND NATURAL GAS;

4 (III) MORE EFFICIENT APPLIANCES CAN MAKE ELECTRICAL  
5 SYSTEMS MORE RELIABLE BY REDUCING THE STRAIN ON A UTILITY'S  
6 DISTRIBUTION GRID DURING PEAK DEMAND PERIODS, ULTIMATELY  
7 REDUCING THE NEED FOR ADDITIONAL POWER PLANTS, TRANSMISSION  
8 LINES, AND OTHER INFRASTRUCTURE; AND

9 (IV) ENERGY EFFICIENCY STANDARDS CONTRIBUTE TO THE STATE'S  
10 ECONOMY BY ENABLING CONSUMERS AND BUSINESS OWNERS TO SPEND  
11 LESS ON ENERGY, LEAVING MORE FOR THE PURCHASE OF LOCAL GOODS  
12 AND SERVICES.

13 **SECTION 3.** Article 7 of title 6, Colorado Revised Statutes, is  
14 amended BY THE ADDITION OF A NEW PART to read:

15 **PART 2**

16 **ENERGY EFFICIENCY STANDARDS**

17 **6-7-201. Definitions.** AS USED IN THIS PART 2, UNLESS THE  
18 CONTEXT OTHERWISE REQUIRES:

19 (1) "COMMERCIAL", IN REFERENCE TO AN APPLIANCE, MEANS  
20 DESIGNED FOR USE IN APPLICATIONS WHERE THE OCCUPANTS OF MORE  
21 THAN ONE HOUSEHOLD WILL BE USING IT OR WHERE IT WILL BE USED AS  
22 PART OF A PROFIT-MAKING ENTERPRISE. EXAMPLES OF SUCH  
23 APPLICATIONS INCLUDE, WITHOUT LIMITATION, A GROCERY STORE, A COIN  
24 LAUNDRY, AND THE COMMON AREA OF AN APARTMENT BUILDING OR OTHER  
25 MULTIFAMILY DWELLING.

26 (2) "COMMERCIAL REFRIGERATORS AND FREEZERS" MEANS  
27 REFRIGERATORS, FREEZERS, AND COMBINATION REFRIGERATOR-FREEZERS

1 THAT HAVE LESS THAN EIGHTY-FIVE CUBIC FEET OF CAPACITY AND THAT  
2 ARE NOT WALK-IN MODELS OR CONSUMER PRODUCTS COVERED BY 42  
3 U.S.C. SEC. 6295.

4 (3) "DIGITAL CABLE TELEVISION BOX" MEANS A DEVICE THAT ACTS  
5 AS A TUNER FOR CABLE TELEVISION PROGRAMMING AND THAT CONVERTS  
6 DIGITAL SIGNALS RECEIVED FROM A CABLE SERVICE PROVIDER TO A SIGNAL  
7 THAT IS USABLE BY A TELEVISION SET.

8 (4) "DIGITAL TELEVISION CONVERTER BOX" MEANS A DEVICE THAT  
9 RECEIVES AND DECODES DIGITAL SIGNALS FOR DISPLAY BY A TELEVISION  
10 SET.

11 (5) "ILLUMINATED EXIT SIGN" MEANS AN INTERNALLY  
12 ILLUMINATED SIGN THAT IS DESIGNED TO BE PERMANENTLY INSTALLED  
13 WITHIN A BUILDING TO IDENTIFY AN EXIT DOOR.

14 (6) "LARGE PACKAGED AIR CONDITIONING EQUIPMENT" MEANS AIR  
15 CONDITIONING EQUIPMENT WITH TWENTY TONS OR MORE OF COOLING  
16 CAPACITY.

17 (7) "LOW-VOLTAGE, DRY-TYPE DISTRIBUTION TRANSFORMER"  
18 MEANS A DISTRIBUTION TRANSFORMER THAT HAS AN INPUT VOLTAGE OF  
19 SIX HUNDRED VOLTS OR LESS AND IS COOLED PRIMARILY BY AIR RATHER  
20 THAN OIL OR OTHER LIQUID COOLANT.

21 (8) "MULTI-FUNCTION DEVICE" MEANS A PHYSICALLY INTEGRATED  
22 DEVICE THAT HAS A CORE FUNCTION OF A SATELLITE TELEVISION SET-TOP  
23 BOX, DIGITAL CABLE TELEVISION BOX, WIRELESS TELEVISION RECEIVER, OR  
24 DIGITAL TELEVISION CONVERTER BOX PLUS ONE OR MORE MAJOR  
25 ADDITIONAL FUNCTIONALITIES, SUCH AS AN INTERNET ACCESS DEVICE OR  
26 A VIDEO GAME CONSOLE.

27 (9) "PACKAGED AIR CONDITIONING EQUIPMENT" MEANS AIR

1       CONDITIONING EQUIPMENT, THE COMPONENTS OF WHICH ARE DESIGNED TO  
2       FUNCTION TOGETHER AS A COMPLETE SYSTEM AND ARE SHIPPED TO THE  
3       END USER'S SITE FOR INSTALLATION AT THE SAME TIME.

4               (10) "SET-TOP BOX" MEANS A DIGITAL CABLE TELEVISION BOX, A  
5       WIRELESS TELEVISION RECEIVER, OR A DIGITAL TELEVISION CONVERTER  
6       BOX; EXCEPT THAT "SET-TOP BOX" DOES NOT INCLUDE A MULTI-FUNCTION  
7       DEVICE.

8               (11) "TORCHIERE FIXTURE" MEANS A PORTABLE ELECTRIC  
9       LIGHTING FIXTURE WITH A REFLECTIVE BOWL THAT DIRECTS LIGHT  
10       UPWARD SO AS TO PROVIDE INDIRECT ILLUMINATION TO A ROOM.

11              (12) "TRAFFIC SIGNAL" MEANS A DEVICE CONTAINING ONE OR  
12       MORE TRAFFIC SIGNAL MODULES AND PLACED ON OR NEAR A ROADWAY TO  
13       REGULATE TRAFFIC USING PRESCRIBED SYMBOLS AND SEQUENCES OF RED,  
14       AMBER, AND GREEN LIGHT.

15              (13) "TRAFFIC SIGNAL MODULE" MEANS A STANDARD EIGHT-INCH-  
16       OR TWELVE-INCH-DIAMETER ROUND TRAFFIC SIGNAL INDICATOR  
17       CONSISTING OF A LIGHT SOURCE, LENS, AND ALL PARTS NECESSARY FOR  
18       OPERATION.

19              (14) "TRANSFORMER" MEANS A DEVICE CONTAINING TWO OR MORE  
20       COILS OF INSULATED WIRE AND DESIGNED TO TRANSFER ALTERNATING  
21       CURRENT BY ELECTROMAGNETIC INDUCTION FROM ONE COIL TO ANOTHER  
22       WHILE CHANGING THE ORIGINAL VOLTAGE OR CURRENT VALUE TO A  
23       DIFFERENT VALUE.

24              (15) "UNIT HEATER" MEANS A SELF-CONTAINED DEVICE,  
25       CONSISTING OF A HEAT SOURCE AND A FAN TO CIRCULATE AIR OVER OR  
26       THROUGH A HEAT-EXCHANGE SURFACE OR CHAMBER, AND DESIGNED TO BE  
27       INSTALLED WITHIN A BUILDING; EXCEPT THAT THE TERM DOES NOT

1 INCLUDE A "FURNACE" OR "WARM AIR FURNACE", AS DEFINED IN 42 U.S.C.  
2 SEC. 6291, OR A PRODUCT THAT IS A DIRECT-VENT, FORCED-FLUE HEATER  
3 WITH A SEALED-COMBUSTION BURNER, OR ANY OIL-FIRED HEATING  
4 SYSTEM.

5 (16) "WIRELESS TELEVISION RECEIVER" MEANS A DEVICE USED IN  
6 CONJUNCTION WITH A DISH ANTENNA TO RECEIVE SATELLITE OR OTHER  
7 WIRELESS TELEVISION PROGRAMMING AND THAT CONVERTS SIGNALS FROM  
8 A DISH ANTENNA FOR USE BY A TELEVISION SET.

9 **6-7-202. Complying devices - sale - installation - exceptions.**

10 (1) UNLESS EXEMPTED UNDER SUBSECTION (2) OF THIS SECTION, NEW  
11 APPLIANCES THAT DO NOT MEET OR EXCEED THE APPLICABLE STANDARDS  
12 SET FORTH IN THIS PART 2:

13 (a) SHALL NOT BE SOLD IN COLORADO ON OR AFTER JANUARY 1,  
14 2007; AND

15 (b) SHALL NOT BE INSTALLED ON OR AFTER JANUARY 1, 2008.

16 (2) THIS PART 2 SHALL NOT APPLY TO:

17 (a) NEW APPLIANCES MANUFACTURED IN COLORADO AND SOLD  
18 OUTSIDE OF COLORADO;

19 (b) NEW APPLIANCES MANUFACTURED OUTSIDE OF COLORADO AND  
20 SOLD AT WHOLESALE IN COLORADO FOR FINAL RETAIL SALE AND  
21 INSTALLATION OUTSIDE OF COLORADO;

22 (c) APPLIANCES INSTALLED IN MOBILE HOMES OR MANUFACTURED  
23 HOMES AT THE TIME OF CONSTRUCTION;

24 (d) APPLIANCES DESIGNED EXPRESSLY FOR INSTALLATION AND USE  
25 IN RECREATIONAL VEHICLES.

26 (3) SALE OR INSTALLATION OF A NONCOMPLYING APPLIANCE IN  
27 VIOLATION OF THIS SECTION SHALL CONSTITUTE A DECEPTIVE TRADE

1 PRACTICE UNDER SECTION 6-1-105 (1) (vv).

2 **6-7-203. Applicable standards - ceiling fans - definitions.**

3 (1) CEILING FANS SHALL HAVE MINIMUM AIRFLOW AND AIRFLOW  
4 EFFICIENCIES AT LOW, MEDIUM, AND HIGH SPEEDS WHEN OPERATED IN A  
5 DOWNWARD BLOWING DIRECTION THAT MEET OR EXCEED THE APPLICABLE  
6 VALUES AS FOLLOWS:

7 FAN SPEED	MINIMUM AIRFLOW	MINIMUM EFFICIENCY
8 Low	1,250 CFM	155 CFM/WATT
9 MEDIUM	2,500 CFM	110 CFM/WATT
10 HIGH	5,000 CFM	75 CFM/WATT

11 (2) FOR PURPOSES OF SUBSECTION (1) OF THIS SECTION:

12 (a) "CFM" STANDS FOR CUBIC FEET PER MINUTE; AND

13 (b) BOTH AIRFLOW AND EFFICIENCY SHALL BE MEASURED USING  
14 THE SOLID STATE TEST METHOD AS SPECIFIED BY THE UNITED STATES  
15 ENVIRONMENTAL PROTECTION AGENCY IN ITS "ENERGY STAR" PROGRAM  
16 FOR CEILING FANS.

17 (3) (a) CEILING FAN LIGHT KITS SHALL BE DESIGNED TO HAVE A  
18 SYSTEM EFFICACY OF NOT LESS THAN FORTY LUMENS PER LISTED WATT.  
19 CEILING FAN LIGHT KITS THAT HAVE SOCKETS FOR SCREW-IN LAMPS SHALL  
20 INCLUDE IN THE PACKAGING, FOR EACH SOCKET, AT LEAST ONE LAMP WITH  
21 A SYSTEM EFFICACY OF NOT LESS THAN FORTY LUMENS PER LISTED WATT.

22 (b) FOR PURPOSES OF THIS SUBSECTION (3):

23 (I) "CEILING FAN LIGHT KIT" MEANS THE EQUIPMENT DESIGNED TO  
24 PROVIDE LIGHT FROM A CEILING FAN. SUCH EQUIPMENT MAY EITHER BE  
25 INTEGRAL, THAT IS, WITH THE CEILING FAN LIGHT KIT PHYSICALLY  
26 ATTACHED AND WIRED TO THE CEILING FAN AT THE TIME OF SALE, OR  
27 ATTACHABLE, THAT IS, WITH THE CEILING FAN LIGHT KIT NOT PHYSICALLY

1 ATTACHED AND WIRED TO THE FAN AT THE TIME OF SALE. AN ATTACHABLE  
2 CEILING FAN LIGHT KIT MAY, BUT NEED NOT, BE PACKAGED AND SOLD  
3 SEPARATELY FOR SUBSEQUENT ATTACHMENT TO THE FAN.

4 (II) "SYSTEM EFFICACY" MEANS MEASURED LAMP LUMENS DIVIDED  
5 BY MEASURED INPUT POWER IN WATTS.

6 (III) "INPUT POWER" MEANS THE ACTUAL TOTAL POWER USED BY  
7 ALL LAMPS AND THE BALLAST OR BALLASTS OF THE LIGHT KIT WHEN  
8 OPERATING, MEASURED IN WATTS.

9 (IV) LAMP LUMENS AND INPUT POWER SHALL BE MEASURED USING  
10 THE LAMP AND BALLAST THAT ARE PACKAGED WITH THE CEILING FAN  
11 LIGHT KIT.

12 **6-7-204. Applicable standards - commercial clothes washers.**

13 (1) COMMERCIAL CLOTHES WASHERS SHALL HAVE MODIFIED ENERGY  
14 FACTORS THAT MEET OR EXCEED THE APPLICABLE LEVELS AS FOLLOWS  
15 AND SHALL HAVE WATER CONSUMPTION FACTORS NO GREATER THAN THE  
16 APPLICABLE VALUES AS FOLLOWS:

	<b>CLOTHES</b>	<b>MINIMUM</b>	<b>MAXIMUM</b>	
	<b>CONTAINER</b>	<b>MODIFIED</b>	<b>WATER</b>	
	<b>COMPART-</b>	<b>ENERGY</b>	<b>CONSUMPTION</b>	
	<b>MENT</b>	<b>FACTOR</b>	<b>FACTOR</b>	
	<b>CAPACITY (FT<sup>3</sup>)</b>			
22	FRONT-LOADING	< 3.5 FT <sup>3</sup>	1.26	9.5
23	CLOTHES WASHERS			
24	TOP-LOADING	< 1.6 FT <sup>3</sup>	0.65	9.5
25	CLOTHES WASHERS	1.6 AND	1.26	9.5
26		< 4.0 FT <sup>3</sup>		

27 (2) FOR PURPOSES OF SUBSECTION (1) OF THIS SECTION:

1 (a) "FT<sup>3</sup>" MEANS CUBIC FEET.

2 (b) COMPARTMENT CAPACITY, MODIFIED ENERGY FACTOR, AND  
3 WATER CONSUMPTION FACTOR SHALL BE DEFINED AND MEASURED IN  
4 ACCORDANCE WITH THE FEDERAL TEST METHOD FOR CLOTHES WASHERS  
5 AS DEFINED IN 10 CFR 430.23(j) (APPENDIX J1 TO SUBPART B OF PART  
6 430) (2001).

7 **6-7-205. Applicable standards - commercial refrigerators and**  
8 **freezers.** (1) THE DAILY ENERGY CONSUMPTION OF COMMERCIAL  
9 REFRIGERATORS AND FREEZERS SHALL NOT EXCEED THE APPLICABLE  
10 VALUES AS FOLLOWS:

	<b>DOORS</b>	<b>MAXIMUM DAILY ENERGY CONSUMPTION (KWH)</b>
11 REACH-IN CABINETS,	SOLID	$0.125V + 2.76$
12 PASS-THROUGH CABINETS,		
13 AND ROLL-IN OR ROLL-	TRANSPARENT	$0.172V + 4.77$
14 THROUGH CABINETS		
15 THAT ARE REFRIGERATORS		
16 REACH-IN CABINETS,	SOLID	$0.398V + 2.28$
17 PASS-THROUGH CABINETS,		
18 AND ROLL-IN OR ROLL-	TRANSPARENT	$0.940V + 5.10$
19 THROUGH CABINETS		
20 THAT ARE FREEZERS		
21 REACH-IN CABINETS	SOLID	$0.273AV + 1.65$
22 THAT ARE REFRIGERATOR-		
23 FREEZERS		

24 (2) FOR PURPOSES OF SUBSECTION (1) OF THIS SECTION:

- 1 (a) "kWh" MEANS KILOWATT HOURS.
- 2 (b) "V" MEANS TOTAL VOLUME IN CUBIC FEET (FT<sup>3</sup>).
- 3 (c) "AV" MEANS ADJUSTED VOLUME, USING THE FORMULA [1.63 X  
4 FREEZER VOLUME (FT<sup>3</sup>)] + REFRIGERATOR VOLUME (FT<sup>3</sup>).
- 5 (d) REACH-IN CABINETS INCLUDE, WITHOUT LIMITATION, ICE  
6 CREAM CABINETS, MILK OR BEVERAGE CABINETS, AND MILK, BEVERAGE,  
7 AND ICE CREAM CABINETS.
- 8 (e) DAILY ENERGY CONSUMPTION SHALL BE MEASURED IN  
9 ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE  
10 (ANSI)/AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR  
11 CONDITIONING ENGINEERS (ASHRAE) TEST METHOD 117-1992; EXCEPT  
12 THAT THE BACK (LOADING) DOORS OF PASS-THROUGH AND ROLL-THROUGH  
13 REFRIGERATORS AND FREEZERS SHALL REMAIN CLOSED THROUGHOUT THE  
14 TEST, AND EXCEPT THAT THE CONTROLS OF ALL APPLIANCES SHALL BE  
15 ADJUSTED TO OBTAIN THE FOLLOWING PRODUCT TEMPERATURES:

16 <b>PRODUCT OR COMPARTMENT</b>	<b>INTEGRATED AVERAGE</b>
17 <b>TYPE</b>	<b>PRODUCT TEMPERATURE (°F.)</b>
18 REFRIGERATOR	38 ± 2
19 FREEZER	0 ± 2
20 ICE CREAM CABINET	-5 ± 2

21 **6-7-206. Applicable standards - illuminated exit signs.**  
22 ILLUMINATED EXIT SIGNS SHALL HAVE AN INPUT POWER DEMAND OF FIVE  
23 WATTS OR LESS PER ILLUMINATED FACE, MEASURED IN ACCORDANCE WITH  
24 THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S "ENERGY  
25 STAR" EXIT SIGN PROGRAM'S CONDITIONS FOR TESTING, AND SHALL MEET  
26 ALL APPLICABLE BUILDING AND SAFETY CODES.

27 **6-7-207. Applicable standards - large packaged air**

1 **conditioning equipment.** (1) LARGE PACKAGED AIR CONDITIONING  
 2 EQUIPMENT, INCLUDING BOTH AIR CONDITIONERS AND HEAT PUMPS,  
 3 WHETHER SINGLE-PACKAGE OR SPLIT SYSTEMS, SHALL MEET OR EXCEED  
 4 THE APPLICABLE EFFICIENCY LEVELS AS FOLLOWS:

5 <b>SIZE</b>	<b>EFFICIENCY</b>
6 240,000 BTU/HR	10.8 EER AND 11.2 IPLV
7 > 240,000 BTU/HR	10.0 EER AND 10.4 IPLV

8 (2) FOR PURPOSES OF SUBSECTION (1) OF THIS SECTION:

9 (a) "BTU" MEANS BRITISH THERMAL UNIT.

10 (b) "EER" MEANS ENERGY EFFICIENCY RATIO.

11 (c) "IPLV" MEANS INTEGRATED PART LOAD VALUE.

12 (d) ENERGY EFFICIENCY RATIO AND INTEGRATED PART LOAD  
 13 VALUE SHALL BE MEASURED IN ACCORDANCE WITH AMERICAN NATIONAL  
 14 STANDARDS INSTITUTE (ANSI)/AMERICAN SOCIETY OF HEATING,  
 15 REFRIGERATING, AND AIR CONDITIONING ENGINEERS (ASHRAE) TEST  
 16 METHOD 340/360-93.

17 **6-7-208. Applicable standards - low-voltage, dry-type**  
 18 **distribution transformers.** (1) LOW-VOLTAGE, DRY-TYPE DISTRIBUTION  
 19 TRANSFORMERS SHALL HAVE EFFICIENCIES NOT LESS THAN THE  
 20 APPLICABLE VALUES AS FOLLOWS WHEN TESTED AT THIRTY-FIVE PERCENT  
 21 OF THEIR RATED OUTPUT POWER:

22 <b>SINGLE-PHASE</b>		<b>THREE-PHASE</b>	
23 RATED POWER	MINIMUM	RATED POWER	MINIMUM
24 OUTPUT (KVA)	EFFICIENCY	OUTPUT (KVA)	EFFICIENCY
	25 (%)		25 (%)
26 15 < 25	97.7	15 < 30	97.0
27 25 < 37.5	98.0	30 < 45	97.5

1	37.5 < 50	98.2	45 < 75	97.7
2	50 < 75	98.3	75 < 112.5	98.0
3	75 < 100	98.5	112.5 < 150	98.2
4	100 < 167	98.6	150 < 225	98.3
5	167 < 250	98.7	225 < 300	98.5
6	250 < 333	98.8	300 < 500	98.6
7	333	98.9	500 < 750	98.7
8			750 < 1000	98.8
9			1000	98.9

10 (2) FOR PURPOSES OF SUBSECTION (1) OF THIS SECTION:

11 (a) "kVA" MEANS KILOVOLT AMPERES.

12 (b) EFFICIENCY SHALL BE MEASURED IN ACCORDANCE WITH THE  
13 NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) TP  
14 2-1998 TEST METHOD.

15 **6-7-209. Applicable standards - set-top boxes.** (1) DIGITAL  
16 CABLE TELEVISION BOXES AND WIRELESS TELEVISION RECEIVERS SHALL  
17 HAVE AVERAGE POWER NEEDS THAT DO NOT EXCEED FIFTEEN WATTS IN  
18 STANDBY MODE. WIRELESS TELEVISION RECEIVERS MAY USE UP TO AN  
19 ADDITIONAL FIVE WATTS IN STANDBY MODE FOR EVERY LOW NOISE BLOCK  
20 (LNB) CONVERTER ASSOCIATED WITH AN INSTALLATION. DIGITAL  
21 TELEVISION CONVERTER BOXES SHALL HAVE AVERAGE POWER NEEDS THAT  
22 DO NOT EXCEED THREE WATTS IN STANDBY MODE.

23 (2) FOR PURPOSES OF THIS SECTION:

24 (a) "STANDBY MODE" MEANS A LOW-POWER STATE THAT THE  
25 SET-TOP BOX ENTERS WHILE CONNECTED TO A POWER SOURCE. IN THIS  
26 MODE, THE PRODUCT USUALLY APPEARS TO BE OFF TO THE USER, BUT MAY  
27 BE CAPABLE OF RESPONDING TO A SIGNAL AND MAY CONTINUE TO

1 PERFORM SOME FUNCTIONS.

2 (b) AVERAGE POWER NEEDS SHALL BE MEASURED IN ACCORDANCE  
3 WITH THE POWER MEASUREMENT AND TEST CRITERIA FOR THE UNITED  
4 STATES ENVIRONMENTAL PROTECTION AGENCY'S "ENERGY STAR"  
5 PROGRAM FOR SET-TOP BOXES.

6 **6-7-210. Applicable standards - torchiere fixtures.** TORCHIERE  
7 FIXTURES SHALL NOT CONSUME MORE THAN ONE HUNDRED NINETY WATTS  
8 AND SHALL NOT BE CAPABLE OF OPERATING WITH LAMPS THAT TOTAL  
9 MORE THAN ONE HUNDRED NINETY WATTS.

10 **6-7-211. Applicable standards - traffic signal modules.**

11 (1) TRAFFIC SIGNAL MODULES SHALL BE INSTALLED WITH COMPATIBLE,  
12 ELECTRONICALLY-CONNECTED SIGNAL CONTROL INTERFACE DEVICES AND  
13 CONFLICT MONITORING SYSTEMS AND SHALL HAVE MAXIMUM AND  
14 NOMINAL WATTAGE THAT DO NOT EXCEED THE APPLICABLE VALUES AS  
15 FOLLOWS:

16	<b>MODULE TYPE</b>	<b>MAXIMUM WATTAGE</b>	<b>NOMINAL WATTAGE</b>
17		<b>(AT 74° C)</b>	<b>(AT 25° C)</b>
18	12" RED BALL (OR	17	11
19	300 MM CIRCULAR)		
20	8" RED BALL (OR	13	8
21	200 MM CIRCULAR)		
22	12" RED ARROW (OR	12	9
23	300 MM ARROW)		
24	12" GREEN BALL (OR	15	15
25	300 MM CIRCULAR)		
26	8" GREEN BALL (OR	12	12
27	200 MM CIRCULAR)		

1 12" GREEN ARROW 11 11  
2 (OR 300 MM ARROW)

3 (2) FOR PURPOSES OF THIS SECTION, MAXIMUM WATTAGE AND  
4 NOMINAL WATTAGE SHALL BE MEASURED IN ACCORDANCE WITH, AND  
5 UNDER THE TESTING CONDITIONS SPECIFIED BY, THE INSTITUTE FOR  
6 TRANSPORTATION ENGINEERS (ITE) "INTERIM LED PURCHASE  
7 SPECIFICATION, VEHICLE TRAFFIC CONTROL SIGNAL HEADS, PART 2:  
8 LIGHT EMITTING DIODE (LED) VEHICLE TRAFFIC SIGNAL MODULES".

9 **6-7-212. Applicable standards - unit heaters.** UNIT HEATERS  
10 SHALL NOT HAVE PILOT LIGHTS AND SHALL HAVE EITHER POWER VENTING  
11 OR AN AUTOMATIC FLUE DAMPER.

12 **SECTION 4.** 6-1-105 (1), Colorado Revised Statutes, is amended  
13 to read:

14 **6-1-105. Deceptive trade practices.** (1) A person engages in a  
15 deceptive trade practice when, in the course of such person's business,  
16 vocation, or occupation, such person:

17 (vv) KNOWINGLY SELLS OR INSTALLS AN APPLIANCE THAT DOES  
18 NOT MEET OR EXCEED AN APPLICABLE ENERGY EFFICIENCY STANDARD SET  
19 FORTH IN PART 2 OF ARTICLE 7 OF THIS TITLE IN VIOLATION OF SECTION  
20 6-7-202.

21 **SECTION 5.** 6-7-104, Colorado Revised Statutes, is amended to  
22 read:

23 **6-7-104. Exemptions from this part 1.** The standards set forth  
24 in this ~~article~~ PART 1 shall not apply to the design and construction or  
25 renovation of private garages, carports, sheds, agricultural buildings,  
26 tanks, factory-constructed housing, towers, and those buildings ~~which~~  
27 THAT have been designated as historic by the governing body of a county

1 or municipality or ~~which~~ THAT have been included on the state register of  
2 historic properties pursuant to article 80.1 of title 24, C.R.S., or the  
3 national register of historic places maintained pursuant to 16 U.S.C. sec.  
4 470a.

5 **SECTION 6.** 6-7-106, Colorado Revised Statutes, is amended to  
6 read:

7 **6-7-106. Building permits.** (1) No building permit shall be  
8 issued for the construction or renovation of any residential buildings in  
9 any area under the jurisdiction of a local government on or after October  
10 1, 1977, unless such construction or renovation will conform to the  
11 provisions of this ~~article~~ PART 1. The local building inspector shall  
12 inspect all places not inspected by the division of housing pursuant to part  
13 7 of article 32 of title 24, C.R.S., to determine whether such places are in  
14 compliance with the insulation standards required by this ~~article~~ PART 1.

15 (2) Nothing in this ~~article~~ PART 1 shall be construed to restrict or  
16 limit the authority of a county or municipality to adopt and enforce  
17 standards for efficient construction and renovation ~~which~~ THAT are no  
18 less stringent than the standards contained in section 6-7-105. Any  
19 county or municipality adopting such standards may accept computations  
20 submitted by a licensed architect or licensed engineer that the design of  
21 the proposed building meets or exceeds the locally adopted energy  
22 efficiency standards.

23 **SECTION 7. Effective date.** This act shall take effect at 12:01  
24 a.m. on the day following the expiration of the ninety-day period after  
25 final adjournment of the general assembly that is allowed for submitting  
26 a referendum petition pursuant to article V, section 1 (3) of the state  
27 constitution (August 4, 2004, if adjournment sine die is on May 5, 2004);

1     except that, if a referendum petition is filed against this act or an item,  
2     section, or part of this act within such period, then the act, item, section,  
3     or part, if approved by the people, shall take effect on the date of the  
4     official declaration of the vote thereon by proclamation of the governor.