

PART A-1—CERTAIN INDUSTRIAL EQUIPMENT

CODIFICATION

This part was, in the original, designated part C and has been changed to part A-1 for purposes of codification.

§ 6311. Definitions

For purposes of this part—

(1) The term “covered equipment” means one of the following types of industrial equipment:

- (A) Electric motors and pumps.
- (B) Small commercial package air conditioning and heating equipment.
- (C) Large commercial package air conditioning and heating equipment.
- (D) Very large commercial package air conditioning and heating equipment.
- (E) Commercial refrigerators, freezers, and refrigerator-freezers.
- (F) Automatic commercial ice makers.
- (G) Walk-in coolers and walk-in freezers.
- (H) Commercial clothes washers.
- (I) Packaged terminal air-conditioners and packaged terminal heat pumps.
- (J) Warm air furnaces and packaged boilers.
- (K) Storage water heaters, instantaneous water heaters, and unfired hot water storage tanks.
- (L) Any other type of industrial equipment which the Secretary classifies as covered equipment under section 6312(b) of this title.

(2)(A) The term “industrial equipment” means any article of equipment referred to in subparagraph (B) of a type—

- (i) which in operation consumes, or is designed to consume, energy;
- (ii) which, to any significant extent, is distributed in commerce for industrial or commercial use; and
- (iii) which is not a “covered product” as defined in section 6291(a)(2) of this title, other than a component of a covered product with respect to which there is in effect a determination under section 6312(c) of this title;

without regard to whether such article is in fact distributed in commerce for industrial or commercial use.

(B) The types of equipment referred to in this subparagraph (in addition to electric motors and pumps, commercial package air conditioning and heating equipment, commercial refrigerators, freezers, and refrigerator-freezers, automatic commercial ice makers, commercial clothes washers, packaged terminal air-conditioners, packaged terminal heat pumps, warm air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water storage tanks) are as follows:

- (i) compressors;
- (ii) fans;
- (iii) blowers;
- (iv) refrigeration equipment;
- (v) electric lights;
- (vi) electrolytic equipment;
- (vii) electric arc equipment;

- (viii) steam boilers;
- (ix) ovens;
- (x) kilns;
- (xi) evaporators; and
- (xii) dryers.

(3) The term “energy efficiency” means the ratio of the useful output of services from an article of industrial equipment to the energy use by such article, determined in accordance with test procedures under section 6314 of this title.

(4) The term “energy use” means the quantity of energy directly consumed by an article of industrial equipment at the point of use, determined in accordance with test procedures established under section 6314 of this title.

(5) The term “manufacturer” means any person who manufactures industrial equipment.

(6) The term “label” may include any printed matter determined appropriate by the Secretary.

(7) The terms “energy”, “manufacture”, “import”, “importation”, “consumer product”, “distribute in commerce”, “distribution in commerce”, and “commerce” have the same meaning as is given such terms in section 6291 of this title.

(8)(A) The term “commercial package air conditioning and heating equipment” means air-cooled, water-cooled, evaporatively-cooled, or water source (not including ground water source) electrically operated, unitary central air conditioners and central air conditioning heat pumps for commercial application.

(B) The term “small commercial package air conditioning and heating equipment” means commercial package air conditioning and heating equipment that is rated below 135,000 Btu per hour (cooling capacity).

(C) The term “large commercial package air conditioning and heating equipment” means commercial package air conditioning and heating equipment that is rated—

- (i) at or above 135,000 Btu per hour; and
- (ii) below 240,000 Btu per hour (cooling capacity).

(D) The term “very large commercial package air conditioning and heating equipment” means commercial package air conditioning and heating equipment that is rated—

- (i) at or above 240,000 Btu per hour; and
- (ii) below 760,000 Btu per hour (cooling capacity).

(9)(A) The term “commercial refrigerator, freezer, and refrigerator-freezer” means refrigeration equipment that—

- (i) is not a consumer product (as defined in section 6291 of this title);
- (ii) is not designed and marketed exclusively for medical, scientific, or research purposes;

(iii) operates at a chilled, frozen, combination chilled and frozen, or variable temperature;

(iv) displays or stores merchandise and other perishable materials horizontally, semivertically, or vertically;

(v) has transparent or solid doors, sliding or hinged doors, a combination of hinged, sliding, transparent, or solid doors, or no doors;

(vi) is designed for pull-down temperature applications or holding temperature applications; and

(vii) is connected to a self-contained condensing unit or to a remote condensing unit.

(B) The term “holding temperature application” means a use of commercial refrigeration equipment other than a pull-down temperature application, except a blast chiller or freezer.

(C) The term “integrated average temperature” means the average temperature of all test package measurements taken during the test.

(D) The term “pull-down temperature application” means a commercial refrigerator with doors that, when fully loaded with 12 ounce beverage cans at 90 degrees F, can cool those beverages to an average stable temperature of 38 degrees F in 12 hours or less.

(E) The term “remote condensing unit” means a factory-made assembly of refrigerating components designed to compress and liquefy a specific refrigerant that is remotely located from the refrigerated equipment and consists of one or more refrigerant compressors, refrigerant condensers, condenser fans and motors, and factory supplied accessories.

(F) The term “self-contained condensing unit” means a factory-made assembly of refrigerating components designed to compress and liquefy a specific refrigerant that is an integral part of the refrigerated equipment and consists of one or more refrigerant compressors, refrigerant condensers, condenser fans and motors, and factory supplied accessories.

(10)(A) The term “packaged terminal air conditioner” means a wall sleeve and a separate unencased combination of heating and cooling assemblies specified by the builder and intended for mounting through the wall. It includes a prime source of refrigeration, separable outdoor louvers, forced ventilation, and heating availability by builder’s choice of hot water, steam, or electricity.

(B) The term “packaged terminal heat pump” means a packaged terminal air conditioner that utilizes reverse cycle refrigeration as its prime heat source and should have supplementary heat source available to builders with the choice of hot water, steam, or electric resistant heat.

(11)(A) The term “warm air furnace” means a self-contained oil- or gas-fired furnace designed to supply heated air through ducts to spaces that require it and includes combination warm air furnace/electric air conditioning units but does not include unit heaters and duct furnaces.

(B) The term “packaged boiler” means a boiler that is shipped complete with heating equipment, mechanical draft equipment, and automatic controls; usually shipped in one or more sections.

(12)(A) The term “storage water heater” means a water heater that heats and stores water within the appliance at a thermostatically controlled temperature for delivery on demand. Such term does not include units with an input rating of 4000 Btu per hour or more per gallon of stored water.

(B) The term “instantaneous water heater” means a water heater that has an input rating of at least 4000 Btu per hour per gallon of stored water.

(C) The term “unfired hot water storage tank” means a tank used to store water that is heated externally.

(13) ELECTRIC MOTOR.—

(A) GENERAL PURPOSE ELECTRIC MOTOR (SUBTYPE I).—The term “general purpose electric motor (subtype I)” means any motor that meets the definition of “General Purpose” as established in the final rule issued by the Department of Energy entitled “Energy Efficiency Program for Certain Commercial and Industrial Equipment: Test Procedures, Labeling, and Certification Requirements for Electric Motors” (10 CFR 431), as in effect on December 19, 2007.

(B) GENERAL PURPOSE ELECTRIC MOTOR (SUBTYPE II).—The term “general purpose electric motor (subtype II)” means motors incorporating the design elements of a general purpose electric motor (subtype I) that are configured as 1 of the following:

(i) A U-Frame Motor.

(ii) A Design C Motor.

(iii) A close-coupled pump motor.

(iv) A Footless motor.

(v) A vertical solid shaft normal thrust motor (as tested in a horizontal configuration).

(vi) An 8-pole motor (900 rpm).

(vii) A poly-phase motor with voltage of not more than 600 volts (other than 230 or 460 volts.¹

(C) The term “definite purpose motor” means any motor designed in standard ratings with standard operating characteristics or standard mechanical construction for use under service conditions other than usual or for use on a particular type of application and which cannot be used in most general purpose applications.

(D) The term “special purpose motor” means any motor, other than a general purpose motor or definite purpose motor, which has special operating characteristics or special mechanical construction, or both, designed for a particular application.

(E) The term “open motor” means a motor having ventilating openings which permit passage of external cooling air over and around the windings of the machine.

(F) The term “enclosed motor” means a motor so enclosed as to prevent the free exchange of air between the inside and outside of the case but not sufficiently enclosed to be termed airtight.

(G) The term “small electric motor” means a NEMA general purpose alternating current single-speed induction motor, built in a two-digit frame number series in accordance with NEMA Standards Publication MG1-1987.

(H) The term “efficiency” when used with respect to an electric motor means the ratio of an electric motor’s useful power output to its total power input, expressed in percentage.

¹So in original. A closing parenthesis probably should follow “volts”.

(I) The term “nominal full load efficiency” means the average efficiency of a population of motors of duplicate design as determined in accordance with NEMA Standards Publication MG1-1987.

(14) The term “ASHRAE” means the American Society of Heating, Refrigerating, and Air Conditioning Engineers.

(15) The term “IES” means the Illuminating Engineering Society of North America.

(16) The term “NEMA” means the National Electrical Manufacturers Association.

(17) The term “IEEE” means the Institute of Electrical and Electronics Engineers.

(18) The term “energy conservation standard” means—

(A) a performance standard that prescribes a minimum level of energy efficiency or a maximum quantity of energy use for a product; or

(B) a design requirement for a product.

(19) The term “automatic commercial ice maker” means a factory-made assembly (not necessarily shipped in one package) that—

(A) consists of a condensing unit and ice-making section operating as an integrated unit, with means for making and harvesting ice; and

(B) may include means for storing ice, dispensing ice, or storing and dispensing ice.

(20) WALK-IN COOLER; WALK-IN FREEZER.—

(A) IN GENERAL.—The terms “walk-in cooler” and “walk-in freezer” mean an enclosed storage space refrigerated to temperatures, respectively, above, and at or below 32 degrees Fahrenheit that can be walked into, and has a total chilled storage area of less than 3,000 square feet.

(B) EXCLUSION.—The terms “walk-in cooler” and “walk-in freezer” do not include products designed and marketed exclusively for medical, scientific, or research purposes.

(21) The term “commercial clothes washer” means a soft-mount front-loading or soft-mount top-loading clothes washer that—

(A) has a clothes container compartment that—

(i) for horizontal-axis clothes washers, is not more than 3.5 cubic feet; and

(ii) for vertical-axis clothes washers, is not more than 4.0 cubic feet; and

(B) is designed for use in—

(i) applications in which the occupants of more than one household will be using the clothes washer, such as multi-family housing common areas and coin laundries; or

(ii) other commercial applications.

(22)² The term “harvest rate” means the amount of ice (at 32 degrees F) in pounds produced per 24 hours.

(22)² SINGLE PACKAGE VERTICAL AIR CONDITIONER.—The term “single package vertical air conditioner” means air-cooled commercial package air conditioning and heating equipment that—

(A) is factory-assembled as a single package that—

(i) has major components that are arranged vertically;

(ii) is an encased combination of cooling and optional heating components; and

(iii) is intended for exterior mounting on, adjacent interior to, or through an outside wall;

(B) is powered by a single- or 3-phase current;

(C) may contain 1 or more separate indoor grilles, outdoor louvers, various ventilation options, indoor free air discharges, ductwork, well plenum, or sleeves; and

(D) has heating components that may include electrical resistance, steam, hot water, or gas, but may not include reverse cycle refrigeration as a heating means.

(23) SINGLE PACKAGE VERTICAL HEAT PUMP.—The term “single package vertical heat pump” means a single package vertical air conditioner that—

(A) uses reverse cycle refrigeration as its primary heat source; and

(B) may include secondary supplemental heating by means of electrical resistance, steam, hot water, or gas.

(Pub. L. 94-163, title III, §340, as added Pub. L. 95-619, title IV, §441(a), Nov. 9, 1978, 92 Stat. 3267; amended Pub. L. 102-486, title I, §122(a), (f)(1), Oct. 24, 1992, 106 Stat. 2806, 2817; Pub. L. 109-58, title I, §136(a), Aug. 8, 2005, 119 Stat. 634; Pub. L. 110-140, title III, §§312(a), 313(a), 314(a), Dec. 19, 2007, 121 Stat. 1564, 1568, 1569.)

AMENDMENTS

2007—Par. (1)(G) to (L). Pub. L. 110-140, §312(a)(1), added subpar. (G) and redesignated former subpars. (G) to (K) as (H) to (L), respectively.

Par. (13). Pub. L. 110-140, §313(a), inserted par. heading, added subpars. (A) and (B), redesignated former subpars. (B) to (H) as (C) to (I), respectively, and struck out former subpar. (A) which read as follows: “The term ‘electric motor’ means any motor which is a general purpose T-frame, single-speed, foot-mounting, polyphase squirrel-cage induction motor of the National Electrical Manufacturers Association, Design A and B, continuous rated, operating on 230/460 volts and constant 60 Hertz line power as defined in NEMA Standards Publication MG1-1987.”

Pars. (20), (21). Pub. L. 110-140, §312(a)(2), (3), added par. (20) and redesignated former par. (20) as (21). Former par. (21) redesignated (22) relating to harvest rate.

Par. (22). Pub. L. 110-140, §314(a), added par. (22) relating to single package vertical air conditioner.

Pub. L. 110-140, §312(a)(2), redesignated par. (21) as (22) relating to harvest rate.

Par. (23). Pub. L. 110-140, §314(a), added par. (23).

2005—Par. (1)(D) to (K). Pub. L. 109-58, §136(a)(1), added subpars. (D) to (G) and redesignated former subpars. (D) to (G) as (H) to (K), respectively.

Par. (2)(B). Pub. L. 109-58, §136(a)(2), substituted “commercial package air conditioning and heating equipment, commercial refrigerators, freezers, and refrigerator-freezers, automatic commercial ice makers, commercial clothes washers” for “small and large commercial package air conditioning and heating equipment” in introductory provisions.

Pars. (8), (9). Pub. L. 109-58, §136(a)(3), added pars. (8) and (9) and struck out former pars. (8) and (9) which read as follows:

“(8) The term ‘small commercial package air conditioning and heating equipment’ means air-cooled, water-cooled, evaporatively-cooled, or water source

² So in original. Two pars. (22) have been enacted.

(not including ground water source) electrically operated, unitary central air conditioners and central air conditioning heat pumps for commercial application which are rated below 135,000 Btu per hour (cooling capacity).

“(9) The term ‘large commercial package air conditioning and heating equipment’ means air-cooled, water-cooled, evaporatively-cooled, or water source (not including ground water source) electrically operated, unitary central air conditioners and central air conditioning heat pumps for commercial application which are rated at or above 135,000 Btu per hour and below 240,000 Btu per hour (cooling capacity).”

Pars. (19) to (21). Pub. L. 109-58, § 136(a)(4), added pars. (19) to (21).

1992—Par. (1)(B) to (G). Pub. L. 102-486, § 122(a)(1), added subpars. (B) to (F) and redesignated former subpar. (B) as (G).

Par. (2)(B). Pub. L. 102-486, § 122(a)(2), in introductory provisions, substituted “pumps, small and large commercial package air conditioning and heating equipment, packaged terminal air-conditioners, packaged terminal heat pumps, warm air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water storage tanks” for “pumps”, redesignated cls. (vi) to (x) and (xii) to (xiv) as cls. (v) to (ix) and (x) to (xi), respectively, and struck out former cls. (v) and (xi) which read “air conditioning equipment;” and “furnaces;”, respectively.

Par. (3). Pub. L. 102-486, § 122(f)(1), substituted “(3) The” for “(3) the”.

Pars. (8) to (18). Pub. L. 102-486, § 122(a)(3), added pars. (8) to (18).

EFFECTIVE DATE OF 2007 AMENDMENT

Amendment by Pub. L. 110-140 effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as an Effective Date note under section 1824 of Title 2, The Congress.

§ 6312. Purposes and coverage

(a) Congressional statement of purpose

It is the purpose of this part to improve the efficiency of electric motors and pumps and certain other industrial equipment in order to conserve the energy resources of the Nation.

(b) Inclusion of industrial equipment as covered equipment

The Secretary may, by rule, include a type of industrial equipment as covered equipment if he determines that to do so is necessary to carry out the purposes of this part.

(c) Inclusion of component parts of consumer products as industrial equipment

The Secretary may, by rule, include as industrial equipment articles which are component parts of consumer products, if he determines that—

- (1) such articles are, to a significant extent, distributed in commerce other than as component parts for consumer products; and
- (2) such articles meet the requirements of section 6311(2)(A) of this title (other than clauses (ii) and (iii)).

(Pub. L. 94-163, title III, § 341, as added Pub. L. 95-619, title IV, § 441(a), Nov. 9, 1978, 92 Stat. 3268.)

§ 6313. Standards

(a) Small, large, and very large commercial package air conditioning and heating equipment, packaged terminal air conditioners and heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water storage tanks

(1) Each small commercial package air conditioning and heating equipment (including single package vertical air conditioners and single package vertical heat pumps) manufactured on or after January 1, 1994, shall meet the following standard levels:

(A) The minimum seasonal energy efficiency ratio of air-cooled three-phase electric central air conditioners and central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), split systems, shall be 10.0.

(B) The minimum seasonal energy efficiency ratio of air-cooled three-phase electric central air conditioners and central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), single package, shall be 9.7.

(C) The minimum energy efficiency ratio of air-cooled central air conditioners and central air conditioning heat pumps at or above 65,000 Btu per hour (cooling capacity) and less than 135,000 Btu per hour (cooling capacity) shall be 8.9 (at a standard rating of 95 degrees F db).

(D) The minimum heating seasonal performance factor of air-cooled three-phase electric central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), split systems, shall be 6.8.

(E) The minimum heating seasonal performance factor of air-cooled three-phase electric central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), single package, shall be 6.6.

(F) The minimum coefficient of performance in the heating mode of air-cooled central air conditioning heat pumps at or above 65,000 Btu per hour (cooling capacity) and less than 135,000 Btu per hour (cooling capacity) shall be 3.0 (at a high temperature rating of 47 degrees F db).

(G) The minimum energy efficiency ratio of water-cooled, evaporatively-cooled and water-source central air conditioners and central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity) shall be 9.3 (at a standard rating of 95 degrees F db, outdoor temperature for evaporatively cooled equipment, and 85 degrees Fahrenheit entering water temperature for water-source and water-cooled equipment).

(H) The minimum energy efficiency ratio of water-cooled, evaporatively-cooled and water-source central air conditioners and central air conditioning heat pumps at or above 65,000 Btu per hour (cooling capacity) and less than 135,000 Btu per hour (cooling capacity) shall be 10.5 (at a standard rating of 95 degrees F db, outdoor temperature for evaporatively cooled equipment, and 85 degrees Fahrenheit entering water temperature for water source and water-cooled equipment).

(I) The minimum coefficient of performance in the heating mode of water-source heat pumps less than 135,000 Btu per hour (cooling

capacity) shall be 3.8 (at a standard rating of 70 degrees Fahrenheit entering water).

(2) Each large commercial package air conditioning and heating equipment (including single package vertical air conditioners and single package vertical heat pumps) manufactured on or after January 1, 1995, but before January 1, 2010, shall meet the following standard levels:

(A) The minimum energy efficiency ratio of air-cooled central air conditioners and central air conditioning heat pumps at or above 135,000 Btu per hour (cooling capacity) and less than 240,000 Btu per hour (cooling capacity) shall be 8.5 (at a standard rating of 95 degrees F db).

(B) The minimum coefficient of performance in the heating mode of air-cooled central air conditioning heat pumps at or above 135,000 Btu per hour (cooling capacity) and less than 240,000 Btu per hour (cooling capacity) shall be 2.9.

(C) The minimum energy efficiency ratio of water- and evaporatively-cooled central air conditioners and central air conditioning heat pumps at or above 135,000 Btu per hour (cooling capacity) and less than 240,000 Btu per hour (cooling capacity) shall be 9.6 (according to ARI Standard 360-86).

(3) Each packaged terminal air conditioner and packaged terminal heat pump manufactured on or after January 1, 1994, shall meet the following standard levels:

(A) The minimum energy efficiency ratio (EER) of packaged terminal air conditioners and packaged terminal heat pumps in the cooling mode shall be $10.0 - (0.16 \times \text{Capacity})$ [in thousands of Btu per hour at a standard rating of 95 degrees F db, outdoor temperature]. If a unit has a capacity of less than 7,000 Btu per hour, then 7,000 Btu per hour shall be used in the calculation. If a unit has a capacity of greater than 15,000 Btu per hour, then 15,000 Btu per hour shall be used in the calculation.

(B) The minimum coefficient of performance (COP) of packaged terminal heat pumps in the heating mode shall be $1.3 + (0.16 \times \text{the minimum cooling EER as specified in subparagraph (A)})$ (at a standard rating of 47 degrees F db).

(4) Each warm air furnace and packaged boiler manufactured on or after January 1, 1994, shall meet the following standard levels:

(A) The minimum thermal efficiency at the maximum rated capacity of gas-fired warm-air furnaces with capacity of 225,000 Btu per hour or more shall be 80 percent.

(B) The minimum thermal efficiency at the maximum rated capacity of oil-fired warm-air furnaces with capacity of 225,000 Btu per hour or more shall be 81 percent.

(C) The minimum combustion efficiency at the maximum rated capacity of gas-fired packaged boilers with capacity of 300,000 Btu per hour or more shall be 80 percent.

(D) The minimum combustion efficiency at the maximum rated capacity of oil-fired packaged boilers with capacity of 300,000 Btu per hour or more shall be 83 percent.

(5) Each storage water heater, instantaneous water heater, and unfired water storage tank

manufactured on or after January 1, 1994, shall meet the following standard levels:

(A) Except as provided in subparagraph (G), the maximum standby loss, in percent per hour, of electric storage water heaters shall be $0.30 + (27/\text{Measured Storage Volume [in gallons]})$.

(B) Except as provided in subparagraph (G), the maximum standby loss, in percent per hour, of gas- and oil-fired storage water heaters with input ratings of 155,000 Btu per hour or less shall be $1.30 + (114/\text{Measured Storage Volume [in gallons]})$. The minimum thermal efficiency of such units shall be 78 percent.

(C) Except as provided in subparagraph (G), the maximum standby loss, in percent per hour, of gas- and oil-fired storage water heaters with input ratings of more than 155,000 Btu per hour shall be $1.30 + (95/\text{Measured Storage Volume [in gallons]})$. The minimum thermal efficiency of such units shall be 78 percent.

(D) The minimum thermal efficiency of instantaneous water heaters with a storage volume of less than 10 gallons shall be 80 percent.

(E) Except as provided in subparagraph (G), the minimum thermal efficiency of instantaneous water heaters with a storage volume of 10 gallons or more shall be 77 percent. The maximum standby loss, in percent/hour, of such units shall be $2.30 + (67/\text{Measured Storage Volume [in gallons]})$.

(F) Except as provided in subparagraph (G), the maximum heat loss of unfired hot water storage tanks shall be 6.5 Btu per hour per square foot of tank surface area.

(G) Storage water heaters and hot water storage tanks having more than 140 gallons of storage capacity need not meet the standby loss or heat loss requirements specified in subparagraphs (A) through (C) and subparagraphs (E) and (F) if the tank surface area is thermally insulated to R-12.5 and if a standing pilot light is not used.

(6) AMENDED ENERGY EFFICIENCY STANDARDS.—

(A) IN GENERAL.—

(i) ANALYSIS OF POTENTIAL ENERGY SAVINGS.—If ASHRAE/IES Standard 90.1 is amended with respect to any small commercial package air conditioning and heating equipment, large commercial package air conditioning and heating equipment, very large commercial package air conditioning and heating equipment, packaged terminal air conditioners, packaged terminal heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, or unfired hot water storage tanks, not later than 180 days after the amendment of the standard, the Secretary shall publish in the Federal Register for public comment an analysis of the energy savings potential of amended energy efficiency standards.

(ii) AMENDED UNIFORM NATIONAL STANDARD FOR PRODUCTS.—

(I) IN GENERAL.—Except as provided in subclause (II), not later than 18 months after the date of publication of the amendment to the ASHRAE/IES Standard 90.1 for a product described in clause (i), the Secretary shall establish an amended uniform national standard for the product at the

minimum level specified in the amended ASHRAE/IES Standard 90.1.

(II) MORE STRINGENT STANDARD.—Subclause (I) shall not apply if the Secretary determines, by rule published in the Federal Register, and supported by clear and convincing evidence, that adoption of a uniform national standard more stringent than the amended ASHRAE/IES Standard 90.1 for the product would result in significant additional conservation of energy and is technologically feasible and economically justified.

(B) RULE.—If the Secretary makes a determination described in clause (ii)(II)¹ for a product described in clause (i),¹ not later than 30 months after the date of publication of the amendment to the ASHRAE/IES Standard 90.1 for the product, the Secretary shall issue the rule establishing the amended standard.

(iii)² CONSIDERATION OF PRICES AND OPERATING PATTERNS.—If the Secretary is considering revised standards for air-cooled 3-phase central air conditioners and central air conditioning heat pumps with less³ 65,000 Btu per hour (cooling capacity), the Secretary shall use commercial energy prices and operating patterns in all analyses conducted by the Secretary.

(C) AMENDMENT OF STANDARD.—

(i) IN GENERAL.—Not later than 6 years after issuance of any final rule establishing or amending a standard, as required for a product under this part, the Secretary shall publish—

(I) a notice of the determination of the Secretary that standards for the product do not need to be amended, based on the criteria established under subparagraph (A); or

(II) a notice of proposed rulemaking including new proposed standards based on the criteria and procedures established under subparagraph (B).

(ii) NOTICE.—If the Secretary publishes a notice under clause (i), the Secretary shall—

(I) publish a notice stating that the analysis of the Department is publicly available; and

(II) provide an opportunity for written comment.

(iii) AMENDMENT OF STANDARD; NEW DETERMINATION.—

(I) AMENDMENT OF STANDARD.—Not later than 2 years after a notice is issued under clause (i)(II), the Secretary shall publish a final rule amending the standard for the product.

(II) NEW DETERMINATION.—Not later than 3 years after a determination under clause (i)(I), the Secretary shall make a new determination and publication under subclause (I) or (II) of clause (i).

(iv) APPLICATION TO PRODUCTS.—An amendment prescribed under this subsection shall

apply to products manufactured after a date that is the later of—

(I) the date that is 3 years after publication of the final rule establishing a new standard; or

(II) the date that is 6 years after the effective date of the current standard for a covered product.

(v) REPORTS.—The Secretary shall promptly submit to the Committee on Energy and Commerce of the House of Representatives and the Committee on Energy and Natural Resources of the Senate a progress report every 180 days on compliance with this subparagraph, including a specific plan to remedy any failures to comply with deadlines for action established under this subparagraph.

(D) A standard amended by the Secretary under this paragraph shall become effective for products manufactured—

(i) with respect to small commercial package air conditioning and heating equipment, packaged terminal air conditioners, packaged terminal heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water storage tanks, on or after a date which is two years after the effective date of the applicable minimum energy efficiency requirement in the amended ASHRAE/IES standard referred to in subparagraph (A); and

(ii) with respect to large commercial package air conditioning and heating equipment and very large commercial package air conditioning and heating equipment, on or after a date which is three years after the effective date of the applicable minimum energy efficiency requirement in the amended ASHRAE/IES standard referred to in subparagraph (A);

except that an energy conservation standard amended by the Secretary pursuant to a rule under subparagraph (B) shall become effective for products manufactured on or after a date which is four years after the date such rule is published in the Federal Register.

(7) Small commercial package air conditioning and heating equipment (other than single package vertical air conditioners and single package vertical heat pumps) shall meet the following standards:

(A) For equipment manufactured on or after January 1, 2010, the minimum energy efficiency ratio of air-cooled central air conditioners at or above 65,000 Btu per hour (cooling capacity) and less than 135,000 Btu per hour (cooling capacity) shall be—

(i) 11.2 for equipment with no heating or electric resistance heating; and

(ii) 11.0 for equipment with all other heating system types that are integrated into the equipment (at a standard rating of 95 degrees F db).

(B) For equipment manufactured on or after January 1, 2010, the minimum energy efficiency ratio of air-cooled central air conditioner heat pumps at or above 65,000 Btu per hour (cooling capacity) and less than 135,000 Btu per hour (cooling capacity) shall be—

¹ See References in Text note below.

² So in original. No cls. (i) and (ii) have been enacted.

³ So in original. Probably should be followed by "than".

(i) 11.0 for equipment with no heating or electric resistance heating; and

(ii) 10.8 for equipment with all other heating system types that are integrated into the equipment (at a standard rating of 95 degrees F db).

(C) For equipment manufactured on or after January 1, 2010, the minimum coefficient of performance in the heating mode of air-cooled central air conditioning heat pumps at or above 65,000 Btu per hour (cooling capacity) and less than 135,000 Btu per hour (cooling capacity) shall be 3.3 (at a high temperature rating of 47 degrees F db).

(D) For equipment manufactured on or after the later of January 1, 2008, or the date that is 180 days after December 19, 2007—

(i) the minimum seasonal energy efficiency ratio of air-cooled 3-phase electric central air conditioners and central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), split systems, shall be 13.0;

(ii) the minimum seasonal energy efficiency ratio of air-cooled 3-phase electric central air conditioners and central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), single package, shall be 13.0;

(iii) the minimum heating seasonal performance factor of air-cooled 3-phase electric central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), split systems, shall be 7.7; and

(iv) the minimum heating seasonal performance factor of air-cooled 3-phase electric central air conditioning heat pumps less than 65,000 Btu per hour (cooling capacity), single package, shall be 7.7.

(8) Large commercial package air conditioning and heating equipment (other than single package vertical air conditioners and single package vertical heat pumps) manufactured on or after January 1, 2010, shall meet the following standards:

(A) The minimum energy efficiency ratio of air-cooled central air conditioners at or above 135,000 Btu per hour (cooling capacity) and less than 240,000 Btu per hour (cooling capacity) shall be—

(i) 11.0 for equipment with no heating or electric resistance heating; and

(ii) 10.8 for equipment with all other heating system types that are integrated into the equipment (at a standard rating of 95 degrees F db).

(B) The minimum energy efficiency ratio of air-cooled central air conditioner heat pumps at or above 135,000 Btu per hour (cooling capacity) and less than 240,000 Btu per hour (cooling capacity) shall be—

(i) 10.6 for equipment with no heating or electric resistance heating; and

(ii) 10.4 for equipment with all other heating system types that are integrated into the equipment (at a standard rating of 95 degrees F db).

(C) The minimum coefficient of performance in the heating mode of air-cooled central air

conditioning heat pumps at or above 135,000 Btu per hour (cooling capacity) and less than 240,000 Btu per hour (cooling capacity) shall be 3.2 (at a high temperature rating of 47 degrees F db).

(9) Very large commercial package air conditioning and heating equipment (other than single package vertical air conditioners and single package vertical heat pumps) manufactured on or after January 1, 2010, shall meet the following standards:

(A) The minimum energy efficiency ratio of air-cooled central air conditioners at or above 240,000 Btu per hour (cooling capacity) and less than 760,000 Btu per hour (cooling capacity) shall be—

(i) 10.0 for equipment with no heating or electric resistance heating; and

(ii) 9.8 for equipment with all other heating system types that are integrated into the equipment (at a standard rating of 95 degrees F db).

(B) The minimum energy efficiency ratio of air-cooled central air conditioner heat pumps at or above 240,000 Btu per hour (cooling capacity) and less than 760,000 Btu per hour (cooling capacity) shall be—

(i) 9.5 for equipment with no heating or electric resistance heating; and

(ii) 9.3 for equipment with all other heating system types that are integrated into the equipment (at a standard rating of 95 degrees F db).

(C) The minimum coefficient of performance in the heating mode of air-cooled central air conditioning heat pumps at or above 240,000 Btu per hour (cooling capacity) and less than 760,000 Btu per hour (cooling capacity) shall be 3.2 (at a high temperature rating of 47 degrees F db).

(10) SINGLE PACKAGE VERTICAL AIR CONDITIONERS AND SINGLE PACKAGE VERTICAL HEAT PUMPS.—

(A) IN GENERAL.—Single package vertical air conditioners and single package vertical heat pumps manufactured on or after January 1, 2010, shall meet the following standards:

(i) The minimum energy efficiency ratio of single package vertical air conditioners less than 65,000 Btu per hour (cooling capacity), single-phase, shall be 9.0.

(ii) The minimum energy efficiency ratio of single package vertical air conditioners less than 65,000 Btu per hour (cooling capacity), 3-phase, shall be 9.0.

(iii) The minimum energy efficiency ratio of single package vertical air conditioners at or above 65,000 Btu per hour (cooling capacity) but less than 135,000 Btu per hour (cooling capacity), shall be 8.9.

(iv) The minimum energy efficiency ratio of single package vertical air conditioners at or above 135,000 Btu per hour (cooling capacity) but less than 240,000 Btu per hour (cooling capacity), shall be 8.6.

(v) The minimum energy efficiency ratio of single package vertical heat pumps less than 65,000 Btu per hour (cooling capacity), single-phase, shall be 9.0 and the minimum

coefficient of performance in the heating mode shall be 3.0.

(vi) The minimum energy efficiency ratio of single package vertical heat pumps less than 65,000 Btu per hour (cooling capacity), 3-phase, shall be 9.0 and the minimum coefficient of performance in the heating mode shall be 3.0.

(vii) The minimum energy efficiency ratio of single package vertical heat pumps at or above 65,000 Btu per hour (cooling capacity) but less than 135,000 Btu per hour (cooling capacity), shall be 8.9 and the minimum coefficient of performance in the heating mode shall be 3.0.

(viii) The minimum energy efficiency ratio of single package vertical heat pumps at or above 135,000 Btu per hour (cooling capacity) but less than 240,000 Btu per hour (cooling capacity), shall be 8.6 and the minimum coefficient of performance in the heating mode shall be 2.9.

(B) REVIEW.—Not later than 3 years after December 19, 2007, the Secretary shall review the most recently published ASHRAE/IES Standard 90.1 with respect to single package vertical air conditioners and single package vertical heat pumps in accordance with the procedures established under paragraph (6).

(b) Electric motors

(1) Except for definite purpose motors, special purpose motors, and those motors exempted by the Secretary under paragraph (2), each electric motor manufactured (alone or as a component of another piece of equipment) after the 60-month period beginning on October 24, 1992, or in the case of an electric motor which requires listing or certification by a nationally recognized safety testing laboratory, after the 84-month period beginning on October 24, 1992, shall have a nominal full load efficiency of not less than the following:

Number of poles	Nominal Full-Load Efficiency					
	Open Motors			Closed Motors		
	6	4	2	6	4	2
Motor Horsepower						
1	80.0	82.5	80.0	82.5	75.5
1.5	84.0	84.0	82.5	85.5	84.0	82.5
2	85.5	84.0	84.0	86.5	84.0	84.0
3	86.5	86.5	84.0	87.5	87.5	85.5
5	87.5	87.5	85.5	87.5	87.5	87.5
7.5	88.5	88.5	87.5	89.5	89.5	88.5
10	90.2	89.5	88.5	89.5	89.5	89.5
15	90.2	91.0	89.5	90.2	91.0	90.2
20	91.0	91.0	90.2	90.2	91.0	90.2
25	91.7	91.7	91.0	91.7	92.4	91.0
30	92.4	92.4	91.0	91.7	92.4	91.0
40	93.0	93.0	91.7	93.0	93.0	91.7
50	93.0	93.0	92.4	93.0	93.0	92.4
60	93.6	93.6	93.0	93.6	93.6	93.0
75	93.6	94.1	93.0	93.6	94.1	93.0
100	94.1	94.1	93.0	94.1	94.5	93.6
125	94.1	94.5	93.6	94.1	94.5	94.5
150	94.5	95.0	93.6	95.0	95.0	94.5
200	94.5	95.0	94.5	95.0	95.0	95.0

(2)(A) The Secretary may, by rule, provide that the standards specified in paragraph (1) shall not apply to certain types or classes of electric motors if—

(i) compliance with such standards would not result in significant energy savings because such motors cannot be used in most general purpose applications or are very unlikely to be used in most general purpose applications; and

(ii) standards for such motors would not be technologically feasible or economically justified.

(B) Not later than one year after October 24, 1992, a manufacturer seeking an exemption under this paragraph with respect to a type or class of electric motor developed on or before October 24, 1992, shall submit a petition to the Secretary requesting such exemption. Such petition shall include evidence that the type or class of motor meets the criteria for exemption specified in subparagraph (A).

(C) Not later than two years after October 24, 1992, the Secretary shall rule on each petition for exemption submitted pursuant to subparagraph (B). In making such ruling, the Secretary shall afford an opportunity for public comment.

(D) Manufacturers of types or classes of motors developed after October 24, 1992, to which standards under paragraph (1) would be applicable may petition the Secretary for exemptions from compliance with such standards based on the criteria specified in subparagraph (A).

(3)(A) The Secretary shall publish a final rule no later than the end of the 24-month period beginning on the effective date of the standards established under paragraph (1) to determine if such standards should be amended. Such rule shall provide that any amendment shall apply to electric motors manufactured on or after a date which is five years after the effective date of the standards established under paragraph (1).

(B) The Secretary shall publish a final rule no later than 24 months after the effective date of the previous final rule to determine whether to amend the standards in effect for such product. Any such amendment shall apply to electric motors manufactured after a date which is five years after—

(i) the effective date of the previous amendment; or

(ii) if the previous final rule did not amend the standards, the earliest date by which a previous amendment could have been effective.

(c) Commercial refrigerators, freezers, and refrigerator-freezers

(1) In this subsection:

(A) The term “AV” means the adjusted volume (ft³) (defined as 1.63 x frozen temperature compartment volume (ft³) + chilled temperature compartment volume (ft³)) with compartment volumes measured in accordance with the Association of Home Appliance Manufacturers Standard HRF1-1979.

(B) The term “V” means the chilled or frozen compartment volume (ft³) (as defined in the Association of Home Appliance Manufacturers Standard HRF1-1979).

(C) Other terms have such meanings as may be established by the Secretary, based on industry-accepted definitions and practice.

(2) Each commercial refrigerator, freezer, and refrigerator-freezer with a self-contained con-

densing unit designed for holding temperature applications manufactured on or after January 1, 2010, shall have a daily energy consumption (in kilowatt hours per day) that does not exceed the following:

Refrigerators with solid doors	0.10 V + 2.04
Refrigerators with transparent doors	0.12 V + 3.34
Freezers with solid doors	0.40 V + 1.38
Freezers with transparent doors	0.75 V + 4.10
Refrigerators/freezers with solid doors the greater of.	0.27 AV - 0.71 or 0.70.

(3) Each commercial refrigerator with a self-contained condensing unit designed for pull-down temperature applications and transparent doors manufactured on or after January 1, 2010, shall have a daily energy consumption (in kilowatt hours per day) of not more than 0.126 V + 3.51.

(4)(A) Not later than January 1, 2009, the Secretary shall issue, by rule, standard levels for ice-cream freezers, self-contained commercial refrigerators, freezers, and refrigerator-freezers without doors, and remote condensing commercial refrigerators, freezers, and refrigerator-freezers, with the standard levels effective for equipment manufactured on or after January 1, 2012.

(B) The Secretary may issue, by rule, standard levels for other types of commercial refrigerators, freezers, and refrigerator-freezers not covered by paragraph (2)(A) with the standard levels effective for equipment manufactured 3 or more years after the date on which the final rule is published.

(5)(A) Not later than January 1, 2013, the Secretary shall issue a final rule to determine whether the standards established under this subsection should be amended.

(B) Not later than 3 years after the effective date of any amended standards under subparagraph (A) or the publication of a final rule determining that the standards should not be amended, the Secretary shall issue a final rule to determine whether the standards established under this subsection or the amended standards, as applicable, should be amended.

(C) If the Secretary issues a final rule under subparagraph (A) or (B) establishing amended standards, the final rule shall provide that the amended standards apply to products manufactured on or after the date that is—

(i) 3 years after the date on which the final amended standard is published; or

(ii) if the Secretary determines, by rule, that 3 years is inadequate, not later than 5 years after the date on which the final rule is published.

(d) Automatic commercial ice makers

(1) Each automatic commercial ice maker that produces cube type ice with capacities between 50 and 2500 pounds per 24-hour period when tested according to the test standard established in section 6314(a)(7) of this title and is manufactured on or after January 1, 2010, shall meet the following standard levels:

Equipment Type	Type of Cooling	Harvest Rate (lbs ice/24 hours)	Maximum Energy Use (kWh/100 lbs Ice)	Maximum Condenser Water Use (gal/100 lbs Ice)
Ice Making Head	Water	<500	7.80-0.0055H	200-0.022H
		- 500 and <1436	5.58-0.0011H	200-0.022H
		- 1436	4.0	200-0.022H
Ice Making Head	Air	<450	10.26-0.0086H	Not Applicable
		- 450	6.89-0.0011H	Not Applicable
Remote Condensing (but not remote compressor)	Air	<1000	8.85-0.0038H	Not Applicable
		- 1000	5.10	Not Applicable
Remote Condensing and Remote Compressor	Air	<934	8.85-0.0038H	Not Applicable
		- 934	5.3	Not Applicable
Self Contained	Water	<200	11.40-0.019H	191-0.0315H
		- 200	7.60	191-0.0315H
Self Contained	Air	<175	18.0-0.0469H	Not Applicable
		- 175	9.80	Not Applicable

H = Harvest rate in pounds per 24 hours.
Water use is for the condenser only and does not include potable water used to make ice.

(2)(A) The Secretary may issue, by rule, standard levels for types of automatic commercial ice makers that are not covered by paragraph (1).

(B) The standards established under subparagraph (A) shall apply to products manufactured on or after the date that is—

(i) 3 years after the date on which the rule is published under subparagraph (A); or

(ii) if the Secretary determines, by rule, that 3 years is inadequate, not later than 5 years after the date on which the final rule is published.

(3)(A) Not later than January 1, 2015, with respect to the standards established under paragraph (1), and, with respect to the standards established under paragraph (2), not later than 5 years after the date on which the standards take effect, the Secretary shall issue a final rule to determine whether amending the applicable standards is technologically feasible and economically justified.

(B) Not later than 5 years after the effective date of any amended standards under subparagraph (A) or the publication of a final rule determining that amending the standards is not technologically feasible or economically justified, the Secretary shall issue a final rule to determine whether amending the standards established under paragraph (1) or the amended standards, as applicable, is technologically feasible or economically justified.

(C) If the Secretary issues a final rule under subparagraph (A) or (B) establishing amended standards, the final rule shall provide that the amended standards apply to products manufactured on or after the date that is—

(i) 3 years after the date on which the final amended standard is published; or

(ii) if the Secretary determines, by rule, that 3 years is inadequate, not later than 5 years after the date on which the final amended standard is published.

(4) A final rule issued under paragraph (2) or (3) shall establish standards at the maximum level that is technically feasible and economically justified, as provided in subsections (o) and (p) of section 6295 of this title.

(e) Commercial clothes washers

(1) Each commercial clothes washer manufactured on or after January 1, 2007, shall have—

(A) a Modified Energy Factor of at least 1.26; and

(B) a Water Factor of not more than 9.5.

(2)(A)(i) Not later than January 1, 2010, the Secretary shall publish a final rule to determine whether the standards established under paragraph (1) should be amended.

(ii) The rule published under clause (i) shall provide that any amended standard shall apply to products manufactured 3 years after the date on which the final amended standard is published.

(B)(i) Not later than January 1, 2015, the Secretary shall publish a final rule to determine whether the standards established under paragraph (1) should be amended.

(ii) The rule published under clause (i) shall provide that any amended standard shall apply to products manufactured 3 years after the date on which the final amended standard is published.

(f) Walk-in coolers and walk-in freezers

(1) In general

Subject to paragraphs (2) through (5), each walk-in cooler or walk-in freezer manufactured on or after January 1, 2009, shall—

(A) have automatic door closers that firmly close all walk-in doors that have been closed to within 1 inch of full closure, except that this subparagraph shall not apply to doors wider than 3 feet 9 inches or taller than 7 feet;

(B) have strip doors, spring hinged doors, or other method of minimizing infiltration when doors are open;

(C) contain wall, ceiling, and door insulation of at least R-25 for coolers and R-32 for freezers, except that this subparagraph shall not apply to glazed portions of doors nor to structural members;

(D) contain floor insulation of at least R-28 for freezers;

(E) for evaporator fan motors of under 1 horsepower and less than 460 volts, use—

(i) electronically commutated motors (brushless direct current motors); or

(ii) 3-phase motors;

(F) for condenser fan motors of under 1 horsepower, use—

(i) electronically commutated motors;

(ii) permanent split capacitor-type motors; or

(iii) 3-phase motors; and

(G) for all interior lights, use light sources with an efficacy of 40 lumens per watt or more, including ballast losses (if any), except that light sources with an efficacy of 40 lumens per watt or less, including ballast losses (if any), may be used in conjunction with a timer or device that turns off the lights within 15 minutes of when the walk-in cooler or walk-in freezer is not occupied by people.

(2) Electronically commutated motors

(A) In general

The requirements of paragraph (1)(E)(i) for electronically commutated motors shall take effect January 1, 2009, unless, prior to that date, the Secretary determines that such motors are only available from 1 manufacturer.

(B) Other types of motors

In carrying out paragraph (1)(E)(i) and subparagraph (A), the Secretary may allow other types of motors if the Secretary determines that, on average, those other motors use no more energy in evaporator fan applications than electronically commutated motors.

(C) Maximum energy consumption level

The Secretary shall establish the maximum energy consumption level under subparagraph (B) not later than January 1, 2010.

(3) Additional specifications

Each walk-in cooler or walk-in freezer with transparent reach-in doors manufactured on or after January 1, 2009, shall also meet the following specifications:

(A) Transparent reach-in doors for walk-in freezers and windows in walk-in freezer doors shall be of triple-pane glass with either heat-reflective treated glass or gas fill.

(B) Transparent reach-in doors for walk-in coolers and windows in walk-in cooler doors shall be—

(i) double-pane glass with heat-reflective treated glass and gas fill; or

(ii) triple-pane glass with either heat-reflective treated glass or gas fill.

(C) If the appliance has an antisweat heater without antisweat heat controls, the appliance shall have a total door rail, glass, and frame heater power draw of not more than 7.1 watts per square foot of door opening (for freezers) and 3.0 watts per square foot of door opening (for coolers).

(D) If the appliance has an antisweat heater with antisweat heat controls, and the total door rail, glass, and frame heater power draw is more than 7.1 watts per square foot of door opening (for freezers) and 3.0 watts per square foot of door opening (for coolers), the antisweat heat controls shall reduce the energy use of the antisweat heater in a quantity corresponding to the relative humidity in the air outside the door or to the condensation on the inner glass pane.

(4) Performance-based standards

(A) In general

Not later than January 1, 2012, the Secretary shall publish performance-based standards for walk-in coolers and walk-in freezers that achieve the maximum improvement in energy that the Secretary determines is technologically feasible and economically justified.

(B) Application

(i) In general

Except as provided in clause (ii), the standards shall apply to products described in subparagraph (A) that are manufactured beginning on the date that is 3 years after the final rule is published.

(ii) Delayed effective date

If the Secretary determines, by rule, that a 3-year period is inadequate, the Secretary may establish an effective date for products manufactured beginning on the date that is not more than 5 years after the date of publication of a final rule for the products.

(5) Amendment of standards

(A) In general

Not later than January 1, 2020, the Secretary shall publish a final rule to determine if the standards established under paragraph (4) should be amended.

(B) Application

(i) In general

Except as provided in clause (ii), the rule shall provide that the standards shall apply to products manufactured beginning on the date that is 3 years after the final rule is published.

(ii) Delayed effective date

If the Secretary determines, by rule, that a 3-year period is inadequate, the Secretary may establish an effective date for products manufactured beginning on the date that is not more than 5 years after

the date of publication of a final rule for the products.

(Pub. L. 94-163, title III, §342, as added Pub. L. 95-619, title IV, §441(a), Nov. 9, 1978, 92 Stat. 3269; amended Pub. L. 102-486, title I, §122(d), Oct. 24, 1992, 106 Stat. 2810; Pub. L. 109-58, title I, §136(b)-(e), Aug. 8, 2005, 119 Stat. 636-641; Pub. L. 110-140, title III, §§305(b), 306(c), 312(b), 313(b)(1), 314(b), Dec. 19, 2007, 121 Stat. 1554, 1559, 1564, 1568, 1570.)

AMENDMENT OF SUBSECTION (b)

Pub. L. 110-140, title III, §313(b), Dec. 19, 2007, 121 Stat. 1568, provided that, effective on the date that is 3 years after Dec. 19, 2007, subsection (b) of this section is amended by redesignating paragraphs (2) and (3) as (3) and (4), respectively, and by adding a new paragraph (2) to read as follows:

(2) ELECTRIC MOTORS.—

(A) *GENERAL PURPOSE ELECTRIC MOTORS (SUBTYPE I).—Except as provided in subparagraph (B), each general purpose electric motor (subtype I) with a power rating of 1 horsepower or greater, but not greater than 200 horsepower, manufactured (alone or as a component of another piece of equipment) after the 3-year period beginning on December 19, 2007, shall have a nominal full load efficiency that is not less than as defined in NEMA MG-1 (2006) Table 12-12.*

(B) *FIRE PUMP MOTORS.—Each fire pump motor manufactured (alone or as a component of another piece of equipment) after the 3-year period beginning on December 19, 2007, shall have nominal full load efficiency that is not less than as defined in NEMA MG-1 (2006) Table 12-11.*

(C) *GENERAL PURPOSE ELECTRIC MOTORS (SUBTYPE II).—Each general purpose electric motor (subtype II) with a power rating of 1 horsepower or greater, but not greater than 200 horsepower, manufactured (alone or as a component of another piece of equipment) after the 3-year period beginning on December 19, 2007, shall have a nominal full load efficiency that is not less than as defined in NEMA MG-1 (2006) Table 12-11.*

(D) *NEMA DESIGN B, GENERAL PURPOSE ELECTRIC MOTORS.—Each NEMA Design B, general purpose electric motor with a power rating of more than 200 horsepower, but not greater than 500 horsepower, manufactured (alone or as a component of another piece of equipment) after the 3-year period beginning on December 19, 2007, shall have a nominal full load efficiency that is not less than as defined in NEMA MG-1 (2006) Table 12-11.*

REFERENCES IN TEXT

Clauses (i) and (ii)(II), referred to in subsec. (a)(6)(B), probably mean clauses (i) and (ii)(II) of subsec. (a)(6)(A) of this section.

AMENDMENTS

2007—Subsec. (a)(1). Pub. L. 110-140, §314(b)(1), (2), in introductory provisions, inserted “(including single package vertical air conditioners and single package vertical heat pumps)” after “heating equipment” and struck out “but before January 1, 2010,” after “January 1, 1994.”

Subsec. (a)(2). Pub. L. 110-140, §314(b)(1), inserted “(including single package vertical air conditioners and single package vertical heat pumps)” after “heating equipment” in introductory provisions.

Subsec. (a)(6). Pub. L. 110-140, §305(b), inserted heading, added subpars. (A) to (C), redesignated former subpar. (C) as (D), and struck out former subpars. (A) and (B) which related to, in subpar. (A), establishment of amended uniform national standards for certain air conditioning and heating equipment and products if ASHRAE/IES Standard 90.1 had been amended and, if such standard had not been amended, initiation of a rulemaking to determine whether a more stringent standard would result in additional energy conservation and be technologically feasible and economically justified, and, in subpar. (B), establishment of an amended standard, including factors to be considered, if a rule had been issued pursuant to a subpar. (A) determination and prohibition of an amended standard which would decrease energy efficiency or would likely result in the unavailability of a product type.

Subsec. (a)(6)(B)(iii). Pub. L. 110-140, §306(c), added cl. (iii) at end.

Subsec. (a)(7). Pub. L. 110-140, §314(b)(3), (4)(A), in introductory provisions, inserted “(other than single package vertical air conditioners and single package vertical heat pumps)” after “heating equipment” and struck out “manufactured on or after January 1, 2010,” before “shall meet”.

Subsec. (a)(7)(A) to (C). Pub. L. 110-140, §314(b)(4)(B), substituted “For equipment manufactured on or after January 1, 2010, the” for “The”.

Subsec. (a)(7)(D). Pub. L. 110-140, §314(b)(4)(C), added subpar. (D).

Subsec. (a)(8), (9). Pub. L. 110-140, §314(b)(3), inserted “(other than single package vertical air conditioners and single package vertical heat pumps)” after “heating equipment” in introductory provisions.

Subsec. (a)(10). Pub. L. 110-140, §314(b)(5), added par. (10).

Subsec. (f). Pub. L. 110-140, §312(b), added subsec. (f). 2005—Subsec. (a). Pub. L. 109-58, §136(b)(1), substituted “Small, large, and very large” for “Small and large” in heading.

Subsec. (a)(1). Pub. L. 109-58, §136(b)(2), inserted “but before January 1, 2010,” after “January 1, 1994,” in introductory provisions.

Subsec. (a)(2). Pub. L. 109-58, §136(b)(3), inserted “but before January 1, 2010,” after “January 1, 1995,” in introductory provisions.

Subsec. (a)(6)(A). Pub. L. 109-58, §136(b)(4)(A), designated existing provisions as cl. (i), substituted “January 1, 2010” for “October 24, 1992”, inserted “and very large commercial package air conditioning and heating equipment, or if ASHRAE/IES Standard 90.1, as in effect on October 24, 1992, is amended with respect to any” after “large commercial package air conditioning and heating equipment,” and added cl. (ii).

Subsec. (a)(6)(C)(ii). Pub. L. 109-58, §136(b)(4)(B), inserted “and very large commercial package air conditioning and heating equipment” after “large commercial package air conditioning and heating equipment”.

Subsec. (a)(7) to (9). Pub. L. 109-58, §136(b)(5), added pars. (7) to (9).

Subsecs. (c) to (e). Pub. L. 109-58, §136(c)–(e), added subsecs. (c) to (e).

1992—Pub. L. 102-486 amended section generally, substituting present provisions for former provisions requiring Secretary to conduct evaluations of electric motors and pumps and other industrial equipment for purposes of determining standards.

EFFECTIVE DATE OF 2007 AMENDMENT

Pub. L. 110-140, title III, §313(b)(2), Dec. 19, 2007, 121 Stat. 1569, provided that: “The amendments made by paragraph (1) [amending this section] take effect on the date that is 3 years after the date of enactment of this Act [Dec. 19, 2007].”

Amendment by Pub. L. 110-140 effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as an Effective Date note under section 1824 of Title 2, The Congress.

§ 6314. Test procedures

(a) Prescription by Secretary; requirements

(1) TEST PROCEDURES.—

(A)¹ AMENDMENT.—At least once every 7 years, the Secretary shall conduct an evaluation of each class of covered equipment and—

(i) if the Secretary determines that amended test procedures would more accurately or fully comply with the requirements of paragraphs (2) and (3), shall prescribe test procedures for the class in accordance with this section; or

(ii) shall publish notice in the Federal Register of any determination not to amend a test procedure.

(2) Test procedures prescribed in accordance with this section shall be reasonably designed to produce test results which reflect energy efficiency, energy use, and estimated operating costs of a type of industrial equipment (or class thereof) during a representative average use cycle (as determined by the Secretary), and shall not be unduly burdensome to conduct.

(3) If the test procedure is a procedure for determining estimated annual operating costs, such procedure shall provide that such costs shall be calculated from measurements of energy use in a representative average-use cycle (as determined by the Secretary), and from representative average unit costs of the energy needed to operate such equipment during such cycle. The Secretary shall provide information to manufacturers of covered equipment respecting representative average unit costs of energy.

(4)(A) With respect to small commercial package air conditioning and heating equipment, large commercial package air conditioning and heating equipment, very large commercial package air conditioning and heating equipment, packaged terminal air conditioners, packaged terminal heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water storage tanks to which standards are applicable under section 6313 of this title, the test procedures shall be those generally accepted industry testing procedures or rating procedures developed or recognized by the Air-Conditioning and Refrigeration Institute or by the American Society of Heating, Refrigerating and Air Conditioning Engineers, as referenced in ASHRAE/IES Standard 90.1 and in effect on June 30, 1992.

(B) If such an industry test procedure or rating procedure for small commercial package air conditioning and heating equipment, large commercial package air conditioning and heating equipment, very large commercial package air conditioning and heating equipment, packaged terminal air conditioners, packaged terminal heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, or unfired hot water storage tanks is amended, the Secretary shall amend the test procedure for the product as necessary to be consistent with the amended industry test procedure or rating procedure unless the Secretary determines, by rule, published in the Federal Register and supported by clear and convincing

¹ So in original. No subpar. (B) has been enacted.

evidence, that to do so would not meet the requirements for test procedures described in paragraphs (2) and (3) of this subsection.

(C) If the Secretary prescribes a rule containing such a determination, the rule may establish an amended test procedure for such product that meets the requirements of paragraphs (2) and (3) of this subsection. In establishing any amended test procedure under this subparagraph or subparagraph (B), the Secretary shall follow the procedures and meet the requirements specified in section 6293(e) of this title.

(5)(A) With respect to electric motors to which standards are applicable under section 6313 of this title, the test procedures shall be the test procedures specified in NEMA Standards Publication MG1-1987 and IEEE Standard 112 Test Method B for motor efficiency, as in effect on October 24, 1992.

(B) If the test procedure requirements of NEMA Standards Publication MG-1987 and IEEE Standard 112 Test Method B for motor efficiency are amended, the Secretary shall amend the test procedures established by subparagraph (A) to conform to such amended test procedure requirements unless the Secretary determines, by rule, published in the Federal Register and supported by clear and convincing evidence, that to do so would not meet the requirements for test procedures described in paragraphs (2) and (3) of this subsection.

(C) If the Secretary prescribes a rule containing such a determination, the rule may establish amended test procedures for such electric motors that meets the requirements of paragraphs (2) and (3) of this subsection. In establishing any amended test procedure under this subparagraph or subparagraph (B), the Secretary shall follow the procedures and meet the requirements specified in section 6293(e) of this title.

(6)(A)(i) In the case of commercial refrigerators, freezers, and refrigerator-freezers, the test procedures shall be—

(I) the test procedures determined by the Secretary to be generally accepted industry testing procedures; or

(II) rating procedures developed or recognized by the ASHRAE or by the American National Standards Institute.

(ii) In the case of self-contained refrigerators, freezers, and refrigerator-freezers to which standards are applicable under paragraphs (2) and (3) of section 6313(c) of this title, the initial test procedures shall be the ASHRAE 117 test procedure that is in effect on January 1, 2005.

(B)(i)² In the case of commercial refrigerators, freezers, and refrigerator-freezers with doors covered by the standards adopted in February 2002, by the California Energy Commission, the rating temperatures shall be the integrated average temperature of 38 degrees F (\pm 2 degrees F) for refrigerator compartments and 0 degrees F (\pm 2 degrees F) for freezer compartments.

(C) The Secretary shall issue a rule in accordance with paragraphs (2) and (3) to establish the appropriate rating temperatures for the other products for which standards will be established under section 6313(c)(4) of this title.

(D) In establishing the appropriate test temperatures under this subparagraph, the Secretary shall follow the procedures and meet the requirements under section 6293(e) of this title.

(E)(i) Not later than 180 days after the publication of the new ASHRAE 117 test procedure, if the ASHRAE 117 test procedure for commercial refrigerators, freezers, and refrigerator-freezers is amended, the Secretary shall, by rule, amend the test procedure for the product as necessary to ensure that the test procedure is consistent with the amended ASHRAE 117 test procedure, unless the Secretary makes a determination, by rule, and supported by clear and convincing evidence, that to do so would not meet the requirements for test procedures under paragraphs (2) and (3).

(ii) If the Secretary determines that 180 days is an insufficient period during which to review and adopt the amended test procedure or rating procedure under clause (i), the Secretary shall publish a notice in the Federal Register stating the intent of the Secretary to wait not longer than 1 additional year before putting into effect an amended test procedure or rating procedure.

(F)(i) If a test procedure other than the ASHRAE 117 test procedure is approved by the American National Standards Institute, the Secretary shall, by rule—

(I) review the relative strengths and weaknesses of the new test procedure relative to the ASHRAE 117 test procedure; and

(II) based on that review, adopt one new test procedure for use in the standards program.

(ii) If a new test procedure is adopted under clause (i)—

(I) section 6293(e) of this title shall apply; and

(II) subparagraph (B) shall apply to the adopted test procedure.

(7)(A) In the case of automatic commercial ice makers, the test procedures shall be the test procedures specified in Air-Conditioning and Refrigeration Institute Standard 810-2003, as in effect on January 1, 2005.

(B)(i) If Air-Conditioning and Refrigeration Institute Standard 810-2003 is amended, the Secretary shall amend the test procedures established in subparagraph (A) as necessary to be consistent with the amended Air-Conditioning and Refrigeration Institute Standard, unless the Secretary determines, by rule, published in the Federal Register and supported by clear and convincing evidence, that to do so would not meet the requirements for test procedures under paragraphs (2) and (3).

(ii) If the Secretary issues a rule under clause (i) containing a determination described in clause (ii), the rule may establish an amended test procedure for the product that meets the requirements of paragraphs (2) and (3).

(C) The Secretary shall comply with section 6293(e) of this title in establishing any amended test procedure under this paragraph.

(8) With respect to commercial clothes washers, the test procedures shall be the same as the test procedures established by the Secretary for residential clothes washers under section 6295(g) of this title.

(9) WALK-IN COOLERS AND WALK-IN FREEZERS.—

² So in original. No cl. (ii) has been enacted.

(A) IN GENERAL.—For the purpose of test procedures for walk-in coolers and walk-in freezers:

(i) The R value shall be the 1/K factor multiplied by the thickness of the panel.

(ii) The K factor shall be based on ASTM test procedure C518-2004.

(iii) For calculating the R value for freezers, the K factor of the foam at 20°F (average foam temperature) shall be used.

(iv) For calculating the R value for coolers, the K factor of the foam at 55°F (average foam temperature) shall be used.

(B) TEST PROCEDURE.—

(i) IN GENERAL.—Not later than January 1, 2010, the Secretary shall establish a test procedure to measure the energy-use of walk-in coolers and walk-in freezers.

(ii) COMPUTER MODELING.—The test procedure may be based on computer modeling, if the computer model or models have been verified using the results of laboratory tests on a significant sample of walk-in coolers and walk-in freezers.

(b) Publication in Federal Register; presentment of oral and written data, views, and arguments by interested persons

Before prescribing any final test procedures under this section, the Secretary shall—

(1) publish proposed test procedures in the Federal Register; and

(2) afford interested persons an opportunity (of not less than 45 days' duration) to present oral and written data, views, and arguments on the proposed test procedures.

(c) Reevaluations

(1) The Secretary shall, not later than 3 years after the date of prescribing a test procedure under this section (and from time to time thereafter), conduct a reevaluation of such procedure and, on the basis of such reevaluation, shall determine if such test procedure should be amended. In conducting such reevaluation, the Secretary shall take into account such information as he deems relevant, including technological developments relating to the energy efficiency of the type (or class) of covered equipment involved.

(2) If the Secretary determines under paragraph (1) that a test procedure should be amended, he shall promptly publish in the Federal Register proposed test procedures incorporating such amendments and afford interested persons an opportunity to present oral and written data, views, and arguments. Such comment period shall not be less than 45 days' duration.

(d) Prohibited representations

(1) Effective 180 days (or, in the case of small commercial package air conditioning and heating equipment, large commercial package air conditioning and heating equipment, very large commercial package air conditioning and heating equipment, commercial refrigerators, freezers, and refrigerator-freezers, automatic commercial ice makers, commercial clothes washers, packaged terminal air conditioners, packaged terminal heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water

storage tanks, 360 days) after a test procedure rule applicable to any covered equipment is prescribed under this section, no manufacturer, distributor, retailer, or private labeler may make any representation—

(A) in writing (including any representation on a label), or

(B) in any broadcast advertisement,

respecting the energy consumption of such equipment or cost of energy consumed by such equipment, unless such equipment has been tested in accordance with such test procedure and such representation fairly discloses the results of such testing.

(2) On the petition of any manufacturer, distributor, retailer, or private labeler, filed not later than the 60th day before the expiration of the period involved, the 180-day period referred to in paragraph (1) may be extended by the Secretary with respect to the petitioner (but in no event for more than an additional 180 days) if he finds that the requirements of paragraph (1) would impose on such petitioner an undue hardship (as determined by the Secretary).

(e) Assistance by National Institute of Standards and Technology

The Secretary may direct the National Institute of Standards and Technology to provide such assistance as the Secretary deems necessary to carry out his responsibilities under this part, including the development of test procedures.

(Pub. L. 94-163, title III, §343, as added Pub. L. 95-619, title IV, §441(a), Nov. 9, 1978, 92 Stat. 3270; amended Pub. L. 100-418, title V, §5115(c), Aug. 23, 1988, 102 Stat. 1433; Pub. L. 102-486, title I, §122(b), (f)(2), Oct. 24, 1992, 106 Stat. 2808, 2817; Pub. L. 109-58, title I, §136(f), Aug. 8, 2005, 119 Stat. 641; Pub. L. 110-140, title III, §§302(b), 312(c), Dec. 19, 2007, 121 Stat. 1552, 1566.)

AMENDMENTS

2007—Subsec. (a). Pub. L. 110-140, §302(b), inserted subsec. heading, added par. (1), and struck out former par. (1) which read as follows: "The Secretary may conduct an evaluation of a class of covered equipment and may prescribe test procedures for such class in accordance with the provisions of this section."

Subsec. (a)(9). Pub. L. 110-140, §312(c), added par. (9). 2005—Subsec. (a)(4)(A), (B). Pub. L. 109-58, §136(f)(1)(A), inserted "very large commercial package air conditioning and heating equipment," after "large commercial package air conditioning and heating equipment,".

Subsec. (a)(6) to (8). Pub. L. 109-58, §136(f)(1)(B), added pars. (6) to (8).

Subsec. (d)(1). Pub. L. 109-58, §136(f)(2), inserted "very large commercial package air conditioning and heating equipment, commercial refrigerators, freezers, and refrigerator-freezers, automatic commercial ice makers, commercial clothes washers," after "large commercial package air conditioning and heating equipment," in introductory provisions.

1992—Subsec. (a)(1). Pub. L. 102-486, §122(b)(1)(A), added par. (1) and struck out former par. (1) which read as follows: "If the Secretary has conducted an evaluation of a class of covered equipment under section 6313 of this title, he may prescribe test procedures for such class in accordance with the following provisions of this section."

Subsec. (a)(4), (5). Pub. L. 102-486, §122(b)(1)(B), added pars. (4) and (5).

Subsecs. (c), (d). Pub. L. 102-486, §122(f)(2), redesignated subsec. (d), relating to reevaluations, as (c).

Subsec. (d)(1). Pub. L. 102-486, §122(b)(2), inserted “(or, in the case of small commercial package air conditioning and heating equipment, large commercial package air conditioning and heating equipment, packaged terminal air conditioners, packaged terminal heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water storage tanks, 360 days)” after “180 days”.

1988—Subsec. (e). Pub. L. 100-418 substituted “National Institute of Standards and Technology” for “National Bureau of Standards”.

EFFECTIVE DATE OF 2007 AMENDMENT

Amendment by Pub. L. 110-140 effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as an Effective Date note under section 1824 of Title 2, The Congress.

§ 6315. Labeling

(a) Prescription by Secretary

If the Secretary has prescribed test procedures under section 6314 of this title for any class of covered equipment, he shall prescribe a labeling rule applicable to such class of covered equipment in accordance with the following provisions of this section.

(b) Disclosure of energy efficiency of articles of covered equipment

A labeling rule prescribed in accordance with this section shall require that each article of covered equipment which is in the type (or class) of industrial equipment to which such rule applies, discloses by label, the energy efficiency of such article, determined in accordance with test procedures under section 6314 of this title. Such rule may also require that such disclosure include the estimated operating costs and energy use, determined in accordance with test procedures under section 6314 of this title.

(c) Inclusion of requirements

A rule prescribed in accordance with this section shall include such requirements as the Secretary determines are likely to assist purchasers in making purchasing decisions, including—

(1) requirements and directions for display of any label,

(2) requirements for including on any label, or separately attaching to, or shipping with, the covered equipment, such additional information relating to energy efficiency, energy use, and other measures of energy consumption, including instructions for the maintenance, use, or repair of the covered equipment, as the Secretary determines necessary to provide adequate information to purchasers, and

(3) requirements that printed matter which is displayed or distributed at the point of sale of such equipment shall disclose such information as may be required under this section to be disclosed on the label of such equipment.

(d) Labeling rules applicable to electric motors

Subject to subsection (h) of this section, not later than 12 months after the Secretary establishes test procedures for electric motors under section 6314 of this title, the Secretary shall prescribe labeling rules under this section applicable to electric motors taking into consideration NEMA Standards Publication MG1-1987. Such rules shall provide that the labeling of any elec-

tric motor manufactured after the 12-month period beginning on the date the Secretary prescribes such labeling rules, shall—

(1) indicate the energy efficiency of the motor on the permanent nameplate attached to such motor;

(2) prominently display the energy efficiency of the motor in equipment catalogs and other material used to market the equipment; and

(3) include such other markings as the Secretary determines necessary solely to facilitate enforcement of the standards established for electric motors under section 6313 of this title.

(e) Labeling rules for air conditioning and heating equipment

Subject to subsection (h) of this section, not later than 12 months after the Secretary establishes test procedures for small commercial package air conditioning and heating equipment, large commercial package air conditioning and heating equipment, very large commercial package air conditioning and heating equipment, commercial refrigerators, freezers, and refrigerator-freezers, automatic commercial ice makers, commercial clothes washers, walk-in coolers and walk-in freezers, packaged terminal air conditioners, packaged terminal heat pumps, warm-air furnaces, packaged boilers, storage water heaters, instantaneous water heaters, and unfired hot water storage tanks under section 6314 of this title, the Secretary shall prescribe labeling rules under this section for such equipment. Such rules shall provide that the labeling of any small commercial package air conditioning and heating equipment, large commercial package air conditioning and heating equipment, very large commercial package air conditioning and heating equipment, commercial refrigerators, freezers, and refrigerator-freezers, automatic commercial ice makers, commercial clothes washers, walk-in coolers and walk-in freezers, packaged terminal air conditioner, packaged terminal heat pump, warm-air furnace, packaged boiler, storage water heater, instantaneous water heater, and unfired hot water storage tank manufactured after the 12-month period beginning on the date the Secretary prescribes such rules shall—

(1) indicate the energy efficiency of the equipment on the permanent nameplate attached to such equipment or other nearby permanent marking;

(2) prominently display the energy efficiency of the equipment in new equipment catalogs used by the manufacturer to advertise the equipment; and

(3) include such other markings as the Secretary determines necessary solely to facilitate enforcement of the standards established for such equipment under section 6313 of this title.

(f) Consultation with Federal Trade Commission

Before prescribing any labeling rules for a type (or class) of covered equipment, the Secretary shall consult with, and obtain the written views of, the Federal Trade Commission with respect to such rules. The Federal Trade Commission shall promptly provide such written views upon the request of the Secretary.

(g) Publication in Federal Register; presentment of oral and written data, views, and arguments of interested persons

(1) Before prescribing any labeling rules under this section, the Secretary shall—

(A) publish proposed labeling rules in the Federal Register, and

(B) afford interested persons an opportunity (of not less than 45 days' duration) to present oral and written data, views, and arguments on the proposed rules.

(2) A labeling rule prescribed under this section shall take effect not later than 3 months after the date of prescription of such rule, except that such rules may take effect not later than 6 months after such date of prescription if the Secretary determines that such extension is necessary to allow persons subject to such rules adequate time to come into compliance with such rules.

(h) Restrictions on Secretary's authority to promulgate rules

The Secretary shall not promulgate labeling rules for any class of industrial equipment unless he has determined that—

(1) labeling in accordance with this section is technologically and economically feasible with respect to such class;

(2) significant energy savings will likely result from such labeling; and

(3) labeling in accordance with this section is likely to assist consumers in making purchasing decisions.

(i) Tests for accuracy of information contained on labels

When requested by the Secretary, any manufacturer of industrial equipment to which a rule under this section applies shall supply at the manufacturer's expense a reasonable number of articles of such covered equipment to any laboratory or testing facility designated by the Secretary, or permit representatives of such laboratory or facility to test such equipment at the site where it is located, for purposes of ascertaining whether the information set out on the label, or otherwise required to be disclosed, as required under this section, is accurate. Any reasonable charge levied by the laboratory or facility for such testing shall be borne by the United States, if and to the extent provided in appropriations Acts.

(j) Products completed prior to effective date of rules

A labeling rule under this section shall not apply to any article of covered equipment the manufacture of which was completed before the effective date of such rule.

(k) Labeling authority under Federal Trade Commission Act

Until such time as labeling rules under this section take effect with respect to a type (or class) of covered equipment, this section shall not affect any authority of the Commission under the Federal Trade Commission Act [15 U.S.C. 41 et seq.] to require labeling with respect to energy consumption of such type (or class) of covered equipment.

(Pub. L. 94-163, title III, §344, as added Pub. L. 95-619, title IV, §441(a), Nov. 9, 1978, 92 Stat. 3271;

amended Pub. L. 102-486, title I, §122(c), Oct. 24, 1992, 106 Stat. 2809; Pub. L. 109-58, title I, §136(g), Aug. 8, 2005, 119 Stat. 643; Pub. L. 110-140, title III, §312(d), Dec. 19, 2007, 121 Stat. 1567.)

REFERENCES IN TEXT

The Federal Trade Commission Act, referred to in subsec. (k), is act Sept. 26, 1914, ch. 311, 38 Stat. 717, as amended, which is classified generally to subchapter I (§41 et seq.) of chapter 2 of Title 15, Commerce and Trade. For complete classification of this Act to the Code, see section 58 of Title 15 and Tables.

AMENDMENTS

2007—Subsec. (e). Pub. L. 110-140 inserted “walk-in coolers and walk-in freezers,” after “commercial clothes washers,” in two places in introductory provisions.

2005—Subsec. (e). Pub. L. 109-58 inserted “very large commercial package air conditioning and heating equipment, commercial refrigerators, freezers, and refrigerator-freezers, automatic commercial ice makers, commercial clothes washers,” after “large commercial package air conditioning and heating equipment,” in two places in introductory provisions.

1992—Subsec. (a). Pub. L. 102-486, §122(c)(1), substituted “shall prescribe” for “may prescribe”.

Subsec. (c). Pub. L. 102-486, §122(c)(2), substituted “shall include” for “may include”.

Subsecs. (d) to (k). Pub. L. 102-486, §122(c)(3), (4), added subsecs. (d) and (e) and redesignated former subsecs. (d) to (i) as (f) to (k), respectively.

EFFECTIVE DATE OF 2007 AMENDMENT

Amendment by Pub. L. 110-140 effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as an Effective Date note under section 1824 of Title 2, The Congress.

§ 6316. Administration, penalties, enforcement, and preemption

(a) The provisions of section 6296(a), (b), and (d) of this title, the provisions of subsections (l) through (s) of section 6295 of this title, and section¹ 6297 through 6306 of this title shall apply with respect to this part (other than the equipment specified in subparagraphs (B) through (G) of section 6311(1) of this title) to the same extent and in the same manner as they apply in part A. In applying such provisions for the purposes of this part—

(1) references to sections 6293, 6294, and 6295 of this title shall be considered as references to sections 6314, 6315, and 6313 of this title, respectively;

(2) references to “this part” shall be treated as referring to part A-1;

(3) the term “equipment” shall be substituted for the term “product”;

(4) the term “Secretary” shall be substituted for “Commission” each place it appears (other than in section 6303(c) of title);

(5) section 6297(a) of this title shall be applied, in the case of electric motors, as if the National Appliance Energy Conservation Act of 1987 was the Energy Policy Act of 1992;

(6) section 6297(b)(1) of this title shall be applied as if electric motors were fluorescent lamp ballasts and as if the National Appliance Energy Conservation Amendments of 1988 were the Energy Policy Act of 1992;

(7) section 6297(b)(4) of this title shall be applied as if electric motors were fluorescent

¹ So in original. Probably should be “sections”.

lamp ballasts and as if paragraph (5) of section 6295(g) of this title were section 6313 of this title;

(8) notwithstanding any other provision of law, a regulation or other requirement adopted by a State or subdivision of a State contained in a State or local building code for new construction concerning the energy efficiency or energy use of an electric motor covered under this part is not superseded by the standards for such electric motor established or prescribed under section 6313(b) of this title if such regulation or requirement is identical to the standards established or prescribed under such section; and

(9) in the case of commercial clothes washers, section 6297(b)(1) of this title shall be applied as if the National Appliance Energy Conservation Act of 1987 was the Energy Policy Act of 2005.

(b)(1) The provisions of section 6295(p)(5)² of this title, section 6296(a), (b), and (d) of this title, section 6297(a) of this title, and sections 6298 through 6306 of this title shall apply with respect to the equipment specified in subparagraphs (B) through (G) of section 6311(1) of this title to the same extent and in the same manner as they apply in part A.³ In applying such provisions for the purposes of such equipment, paragraphs (1), (2), (3), and (4) of subsection (a) of this section shall apply.

(2)(A) A standard prescribed or established under section 6313(a) of this title shall, beginning on the effective date of such standard, supersede any State or local regulation concerning the energy efficiency or energy use of a product for which a standard is prescribed or established pursuant to such section.

(B) Notwithstanding subparagraph (A), a standard prescribed or established under section 6313(a) of this title shall not supersede a standard for such a product contained in a State or local building code for new construction if—

(i) the standard in the building code does not require that the energy efficiency of such product exceed the applicable minimum energy efficiency requirement in amended ASHRAE/IES Standard 90.1; and

(ii) the standard in the building code does not take effect prior to the effective date of the applicable minimum energy efficiency requirement in amended ASHRAE/IES Standard 90.1.

(C) Notwithstanding subparagraph (A), a standard prescribed or established under section 6313(a) of this title shall not supersede the standards established by the State of California set forth in Table C-6, California Code of Regulations, Title 24, Part 2, Chapter 2-53, for water-source heat pumps below 135,000 Btu per hour (cooling capacity) that become effective on January 1, 1993.

(D) Notwithstanding subparagraph (A), a standard prescribed or established under section 6313(a) of this title shall not supersede a State regulation which has been granted a waiver by

the Secretary. The Secretary may grant a waiver pursuant to the terms, conditions, criteria, procedures, and other requirements specified in section 6297(d) of this title.

(c) With respect to any electric motor to which standards are applicable under section 6313(b) of this title, the Secretary shall require manufacturers to certify, through an independent testing or certification program nationally recognized in the United States, that such motor meets the applicable standard.

(d)(1) Except as provided in paragraphs (2) and (3), section 6297 of this title shall apply with respect to very large commercial package air conditioning and heating equipment to the same extent and in the same manner as section 6297 of this title applies under part A³ on August 8, 2005.

(2) Any State or local standard issued before August 8, 2005, shall not be preempted until the standards established under section 6313(a)(9) of this title take effect on January 1, 2010.

(e)(1)(A) Subsections (a), (b), and (d) of section 6296 of this title, subsections (m) through (s) of section 6295 of this title, and sections 6298 through 6306 of this title shall apply with respect to commercial refrigerators, freezers, and refrigerator-freezers to the same extent and in the same manner as those provisions apply under part A.³

(B) In applying those provisions to commercial refrigerators, freezers, and refrigerator-freezers, paragraphs (1), (2), (3), and (4) of subsection (a) of this section shall apply.

(2)(A) Section 6297 of this title shall apply to commercial refrigerators, freezers, and refrigerator-freezers for which standards are established under paragraphs (2) and (3) of section 6313(c) of this title to the same extent and in the same manner as those provisions apply under part A³ on August 8, 2005, except that any State or local standard issued before August 8, 2005, shall not be preempted until the standards established under paragraphs (2) and (3) of section 6313(c) of this title take effect.

(B) In applying section 6297 of this title in accordance with subparagraph (A), paragraphs (1), (2), and (3) of subsection (a) of this section shall apply.

(3)(A) Section 6297 of this title shall apply to commercial refrigerators, freezers, and refrigerator-freezers for which standards are established under section 6313(c)(4) of this title to the same extent and in the same manner as the provisions apply under part A³ on the date of publication of the final rule by the Secretary, except that any State or local standard issued before the date of publication of the final rule by the Secretary shall not be preempted until the standards take effect.

(B) In applying section 6297 of this title in accordance with subparagraph (A), paragraphs (1), (2), and (3) of subsection (a) of this section shall apply.

(4)(A) If the Secretary does not issue a final rule for a specific type of commercial refrigerator, freezer, or refrigerator-freezer within the time frame specified in section 6313(c)(5) of this title, subsections (b) and (c) of section 6297 of this title shall not apply to that specific type of refrigerator, freezer, or refrigerator-freezer for

²So in original. Section 6295(p) of this title does not contain a par. (5).

³See References in Text note below.

the period beginning on the date that is 2 years after the scheduled date for a final rule and ending on the date on which the Secretary publishes a final rule covering the specific type of refrigerator, freezer, or refrigerator-freezer.

(B) Any State or local standard issued before the date of publication of the final rule shall not be preempted until the final rule takes effect.

(5)(A) In the case of any commercial refrigerator, freezer, or refrigerator-freezer to which standards are applicable under paragraphs (2) and (3) of section 6313(c) of this title, the Secretary shall require manufacturers to certify, through an independent, nationally recognized testing or certification program, that the commercial refrigerator, freezer, or refrigerator-freezer meets the applicable standard.

(B) The Secretary shall, to the maximum extent practicable, encourage the establishment of at least 2 independent testing and certification programs.

(C) As part of certification, information on equipment energy use and interior volume shall be made available to the Secretary.

(f)(1)(A)(i) Except as provided in clause (ii), section 6297 of this title shall apply to automatic commercial ice makers for which standards have been established under section 6313(d)(1) of this title to the same extent and in the same manner as the section applies under part A³ on August 8, 2005.

(ii) Any State standard issued before August 8, 2005, shall not be preempted until the standards established under section 6313(d)(1) of this title take effect.

(B) In applying section 6297 of this title to the equipment under subparagraph (A), paragraphs (1), (2), and (3) of subsection (a) of this section shall apply.

(2)(A)(i) Except as provided in clause (ii), section 6297 of this title shall apply to automatic commercial ice makers for which standards have been established under section 6313(d)(2) of this title to the same extent and in the same manner as the section applies under part A³ on the date of publication of the final rule by the Secretary.

(ii) Any State standard issued before the date of publication of the final rule by the Secretary shall not be preempted until the standards established under section 6313(d)(2) of this title take effect.

(B) In applying section 6297 of this title in accordance with subparagraph (A), paragraphs (1), (2), and (3) of subsection (a) of this section shall apply.

(3)(A) If the Secretary does not issue a final rule for a specific type of automatic commercial ice maker within the time frame specified in section 6313(d) of this title, subsections (b) and (c) of section 6297 of this title shall no longer apply to the specific type of automatic commercial ice maker for the period beginning on the day after the scheduled date for a final rule and ending on the date on which the Secretary publishes a final rule covering the specific type of automatic commercial ice maker.

(B) Any State standard issued before the publication of the final rule shall not be preempted until the standards established in the final rule take effect.

(4)(A) The Secretary shall monitor whether manufacturers are reducing harvest rates below

tested values for the purpose of bringing non-complying equipment into compliance.

(B) If the Secretary finds that there has been a substantial amount of manipulation with respect to harvest rates under subparagraph (A), the Secretary shall take steps to minimize the manipulation, such as requiring harvest rates to be within 5 percent of tested values.

(g)(1)(A) If the Secretary does not issue a final rule for commercial clothes washers within the timeframe specified in section 6313(e)(2) of this title, subsections (b) and (c) of section 6297 of this title shall not apply to commercial clothes washers for the period beginning on the day after the scheduled date for a final rule and ending on the date on which the Secretary publishes a final rule covering commercial clothes washers.

(B) Any State or local standard issued before the date on which the Secretary publishes a final rule shall not be preempted until the standards established under section 6313(e)(2) of this title take effect.

(2) The Secretary shall undertake an educational program to inform owners of laundromats, multifamily housing, and other sites where commercial clothes washers are located about the new standard, including impacts on washer purchase costs and options for recovering those costs through coin collection.

(h) WALK-IN COOLERS AND WALK-IN FREEZERS.—

(1) COVERED TYPES.—

(A) RELATIONSHIP TO OTHER LAW.—

(i) IN GENERAL.—Except as otherwise provided in this subsection, section 6297 of this title shall apply to walk-in coolers and walk-in freezers for which standards have been established under paragraphs (1), (2), and (3) of section 6313(f) of this title to the same extent and in the same manner as the section applies under part A³ on December 19, 2007.

(ii) STATE STANDARDS.—Any State standard prescribed before December 19, 2007, shall not be preempted until the standards established under paragraphs (1) and (2) of section 6313(f) of this title take effect.

(B) ADMINISTRATION.—In applying section 6297 of this title to equipment under subparagraph (A), paragraphs (1), (2), and (3) of subsection (a) shall apply.

(2) FINAL RULE NOT TIMELY.—

(A) IN GENERAL.—If the Secretary does not issue a final rule for a specific type of walk-in cooler or walk-in freezer within the timeframe established under paragraph (4) or (5) of section 6313(f) of this title, subsections (b) and (c) of section 6297 of this title shall no longer apply to the specific type of walk-in cooler or walk-in freezer during the period—

(i) beginning on the day after the scheduled date for a final rule; and

(ii) ending on the date on which the Secretary publishes a final rule covering the specific type of walk-in cooler or walk-in freezer.

(B) STATE STANDARDS.—Any State standard issued before the publication of the final rule shall not be preempted until the standards established in the final rule take effect.

(3) CALIFORNIA.—Any standard issued in the State of California before January 1, 2011, under title 20 of the California Code of Regulations, that refers to walk-in coolers and walk-in freezers, for which standards have been established under paragraphs (1), (2), and (3) of section 6313(f) of this title, shall not be preempted until the standards established under section 6313(f)(3) of this title take effect.

(Pub. L. 94-163, title III, §345, as added Pub. L. 95-619, title IV, §441(a), Nov. 9, 1978, 92 Stat. 3272; amended Pub. L. 102-486, title I, §122(e), Oct. 24, 1992, 106 Stat. 2815; Pub. L. 105-388, §5(a)(7), Nov. 13, 1998, 112 Stat. 3478; Pub. L. 109-58, title I, §136(h), Aug. 8, 2005, 119 Stat. 643; Pub. L. 110-140, title III, §§308(b), 312(e), Dec. 19, 2007, 121 Stat. 1561, 1567.)

REFERENCES IN TEXT

The National Appliance Energy Conservation Act of 1987, referred to in subsec. (a)(5), (9), is Pub. L. 100-12, Mar. 17, 1987, 101 Stat. 103. For complete classification of this Act to the Code, see Short Title of 1987 Amendment note set out under section 6201 of this title and Tables.

The Energy Policy Act of 1992, referred to in subsec. (a)(5), (6), is Pub. L. 102-486, Oct. 24, 1992, 106 Stat. 2776. For complete classification of this Act to the Code, see Short Title note set out under section 13201 of this title and Tables.

The Energy Policy Act of 2005, referred to in subsec. (a)(9), is Pub. L. 109-58, Aug. 8, 2005, 119 Stat. 594. For complete classification of this Act to the Code, see Short Title note set out under section 15801 of this title and Tables.

The National Appliance Energy Conservation Amendments of 1988, referred to in subsec. (a)(6), is Pub. L. 100-357, June 28, 1988, 102 Stat. 671. For complete classification of this Act to the Code, see Short Title of 1988 Amendments note set out under section 6201 of this title and Tables.

The references to “part A” in subsecs. (b)(1), (d)(1), (e)(1)(A), (2)(A), (3)(A), (f)(1)(A)(i), (2)(A)(i), and (h)(1)(A)(i) are shown in those subsecs. as they appear in the original Act. Those references in the original probably should have been to “part B”, meaning part B of title III of Pub. L. 94-163, which is classified generally to part A of this subchapter.

AMENDMENTS

2007—Subsec. (a). Pub. L. 110-140, §312(e)(1), substituted “subparagraphs (B) through (G)” for “subparagraphs (B), (C), (D), (E), and (F)” in introductory provisions.

Subsec. (b)(1). Pub. L. 110-140, §§308(b), 312(e)(1), inserted “section 6295(p)(5) of this title,” after “The provisions of” and substituted “subparagraphs (B) through (G)” for “subparagraphs (B), (C), (D), (E), and (F)”.

Subsec. (h). Pub. L. 110-140, §312(e)(2), added subsec. (h).

2005—Subsec. (a)(9). Pub. L. 109-58, §136(h)(1), added par. (9).

Subsec. (b)(1). Pub. L. 109-58, §136(h)(2), substituted “part A” for “part B”, which for purposes of codification had been translated as “part A” thus requiring no change in text.

Subsecs. (d) to (g). Pub. L. 109-58, §136(h)(3), added subsecs. (d) to (g).

1998—Subsec. (c). Pub. L. 105-388 inserted “standard” after “meets the applicable”.

1992—Pub. L. 102-486, §122(e)(3), substituted “enforcement, and preemption” for “and enforcement” in section catchline.

Subsec. (a). Pub. L. 102-486, §122(e)(1)(A), inserted “(other than the equipment specified in subparagraphs (B), (C), (D), (E), and (F) of section 6311(l) of this title)” after “to this part” and substituted “, the provisions of

subsections (l) through (s) of section 6295 of this title, and section 6297” for “and sections 6298”.

Subsec. (a)(1). Pub. L. 102-486, §122(e)(1)(B), substituted “, 6294, and 6295 of this title” for “and 6294 of this title” and “6314, 6315, and 6313 of this title, respectively” for “6314 and 6315 of this title, respectively”.

Subsec. (a)(5) to (8). Pub. L. 102-486, §122(e)(1)(C)–(E), added pars. (5) to (8).

Subsecs. (b), (c). Pub. L. 102-486, §122(e)(2), added subsecs. (b) and (c).

EFFECTIVE DATE OF 2007 AMENDMENT

Amendment by Pub. L. 110-140 effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110-140, set out as an Effective Date note under section 1824 of Title 2, The Congress.

§ 6317. Energy conservation standards for high-intensity discharge lamps, distribution transformers, and small electric motors

(a) High-intensity discharge lamps and distribution transformers

(1) The Secretary shall, within 30 months after October 24, 1992, prescribe testing requirements for those high-intensity discharge lamps and distribution transformers for which the Secretary makes a determination that energy conservation standards would be technologically feasible and economically justified, and would result in significant energy savings.

(2) The Secretary shall, within 18 months after the date on which testing requirements are prescribed by the Secretary pursuant to paragraph (1), prescribe, by rule, energy conservation standards for those high-intensity discharge lamps and distribution transformers for which the Secretary prescribed testing requirements under paragraph (1).

(3) Any standard prescribed under paragraph (2) with respect to high-intensity discharge lamps shall apply to such lamps manufactured 36 months after the date such rule is published.

(b) Small electric motors

(1) The Secretary shall, within 30 months after October 24, 1992, prescribe testing requirements for those small electric motors for which the Secretary makes a determination that energy conservation standards would be technologically feasible and economically justified, and would result in significant energy savings.

(2) The Secretary shall, within 18 months after the date on which testing requirements are prescribed by the Secretary pursuant to paragraph (1), prescribe, by rule, energy conservation standards for those small electric motors for which the Secretary prescribed testing requirements under paragraph (1).

(3) Any standard prescribed under paragraph (2) shall apply to small electric motors manufactured 60 months after the date such rule is published or, in the case of small electric motors which require listing or certification by a nationally recognized testing laboratory, 84 months after such date. Such standards shall not apply to any small electric motor which is a component of a covered product under section 6292(a) of this title or a covered equipment under section 6311 of this title.

(c) Consideration of criteria under other law

In establishing any standard under this section, the Secretary shall take into consideration

the criteria contained in section 6295(n) of this title.

(d) Prescription of labeling requirements by Secretary

The Secretary shall, within six months after the date on which energy conservation standards are prescribed by the Secretary for high-intensity discharge lamps and distribution transformers pursuant to subsection (a)(2) of this section and small electric motors pursuant to subsection (b)(2) of this section, prescribe labeling requirements for such lamps, transformers, and small electric motors.

(e) Compliance by manufacturers with labeling requirements

Beginning on the date which occurs six months after the date on which a labeling rule is prescribed for a product under subsection (d) of this section, each manufacturer of a product to which such a rule applies shall provide a label which meets, and is displayed in accordance with, the requirements of such rule.

(f) New covered products; distribution of non-conforming products prohibited; construction with other law

(1) After the date on which a manufacturer must provide a label for a product pursuant to subsection (e) of this section—

(A) each such product shall be considered, for purposes of paragraphs (1) and (2) of section 6302(a) of this title, a new covered product to which a rule under section 6294 of this title applies; and

(B) it shall be unlawful for any manufacturer or private labeler to distribute in commerce any new product for which an energy conservation standard is prescribed under subsection (a)(2) or (b)(2) of this section which is not in conformity with the applicable energy conservation standard.

(2) For purposes of section 6303(a) of this title, paragraph (1) of this subsection shall be considered to be a part of section 6302 of this title.

(Pub. L. 94-163, title III, §346, as added Pub. L. 95-619, title IV, §441(a), Nov. 9, 1978, 92 Stat. 3272; amended Pub. L. 102-486, title I, §124(a), Oct. 24, 1992, 106 Stat. 2832.)

AMENDMENTS

1992—Pub. L. 102-486 amended section generally, substituting provisions requiring energy conservation standards for high-intensity discharge lamps, distribution transformers, and small electric motors, for provisions authorizing appropriations for fiscal years 1978 and 1979.

STUDY OF UTILITY DISTRIBUTION TRANSFORMERS;
REPORT TO CONGRESS

Section 124(c) of Pub. L. 102-486 provided that: "The Secretary shall evaluate the practicability, cost-effectiveness, and potential energy savings of replacing, or upgrading components of, existing utility distribution transformers during routine maintenance and, not later than 18 months after the date of the enactment of this Act [Oct. 24, 1992], report the findings of such evaluation to the Congress with recommendations on how such energy savings, if any, could be achieved."

PART B—STATE ENERGY CONSERVATION PLANS

CODIFICATION

This part, originally designated part C and subsequently redesignated part D by Pub. L. 95-619, title IV,

§441(a), Nov. 9, 1978, 92 Stat. 3267, was changed to part B for purposes of codification.

§ 6321. Congressional findings and declaration of purpose

(a) The Congress finds that—

(1) the development and implementation by States of laws, policies, programs, and procedures to conserve and to improve efficiency in the use of energy will have an immediate and substantial effect in reducing the rate of growth of energy demand and in minimizing the adverse social, economic, political, and environmental impacts of increasing energy consumption;

(2) the development and implementation of energy conservation programs by States will most efficiently and effectively minimize any adverse economic or employment impacts of changing patterns of energy use and meet local economic, climatic, geographic, and other unique conditions and requirements of each State; and

(3) the Federal Government has a responsibility to foster and promote comprehensive energy conservation programs and practices by establishing guidelines for such programs and providing overall coordination, technical assistance, and financial support for specific State initiatives in energy conservation.

(b) It is the purpose of this part to promote the conservation of energy and reduce the rate of growth of energy demand by authorizing the Secretary to establish procedures and guidelines for the development and implementation of specific State energy conservation programs and to provide Federal financial and technical assistance to States in support of such programs.

(Pub. L. 94-163, title III, §361, Dec. 22, 1975, 89 Stat. 932; Pub. L. 95-619, title VI, §691(b)(2), Nov. 9, 1978, 92 Stat. 3288.)

AMENDMENTS

1978—Subsec. (b). Pub. L. 95-619 substituted "Secretary" for "Administrator", meaning Administrator of the Federal Energy Administration.

REPORT ON COORDINATION OF ENERGY CONSERVATION
PROGRAMS

Section 623 of Pub. L. 95-619 provided that not later than 6 months after Nov. 9, 1978, the Secretary of Energy submit a report on the coordination of Federal energy conservation programs involving State and local government.

§ 6322. State energy conservation plans

(a) Feasibility reports

The Secretary shall, by rule, within 60 days after December 22, 1975, prescribe guidelines for the preparation of a State energy conservation feasibility report. The Secretary shall invite the Governor of each State to submit, within 3 months after the effective date of such guidelines, such a report. Such report shall include—

(1) an assessment of the feasibility of establishing a State energy conservation goal, which goal shall consist of a reduction, as a result of the implementation of the State energy conservation plan described in this section, of 5 percent or more in the total amount