

Public Law 100-357
100th Congress

An Act

To amend the Energy Policy and Conservation Act to provide for Federal energy conservation standards for fluorescent lamp ballasts.

June 28, 1988
[S. 2167]

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be referred to as the "National Appliance Energy Conservation Amendments of 1988".

SEC. 2. AMENDMENTS FOR FLUORESCENT LAMP BALLASTS.

(a) DEFINITION.—(1) Section 321(a) of the Energy Policy and Conservation Act (42 U.S.C. 6291(a)) is amended by adding the following new paragraph at the end:

"(29)(A) The term 'fluorescent lamp ballast' means a device which is used to start and operate fluorescent lamps by providing a starting voltage and current and limiting the current during normal operation.

"(B) The term 'ANSI standard' means a standard developed by a committee accredited by the American National Standards Institute.

"(C) The term 'ballast efficacy factor' means the relative light output divided by the power input of a fluorescent lamp ballast, as measured under test conditions specified in ANSI standard C82.2-1984, or as may be prescribed by the Secretary.

"(D)(i) The term 'F40T12 lamp' means a nominal 40 watt tubular fluorescent lamp which is 48 inches in length and one-and-a-half inches in diameter, and conforms to ANSI standard C78.1-1978(R1984).

"(ii) The term 'F96T12 lamp' means a nominal 75 watt tubular fluorescent lamp which is 96 inches in length and one-and-a-half inches in diameter, and conforms to ANSI standard C78.3-1978(R1984).

"(iii) The term 'F96T12HO lamp' means a nominal 110 watt tubular fluorescent lamp which is 96 inches in length and one-and-a-half inches in diameter, and conforms to ANSI standard C78.1-1978(R1984).

"(E) The term 'input current' means the root-mean-square (RMS) current in amperes delivered to a fluorescent lamp ballast.

"(F) The term 'luminaire' means a complete lighting unit consisting of a fluorescent lamp or lamps, together with parts designed to distribute the light, to position and protect such lamps, and to connect such lamps to the power supply through the ballast.

"(G) The term 'ballast input voltage' means the rated input voltage of a fluorescent lamp ballast.

"(H) The term 'nominal lamp watts' means the wattage at which a fluorescent lamp is designed to operate.

National
Appliance
Energy
Conservation
Amendments
of 1988.
42 USC 6201
note.

"(I) The term 'power factor' means the power input divided by the product of ballast input voltage and input current of a fluorescent lamp ballast, as measured under test conditions specified in ANSI standard C82.2-1984, or as may be prescribed by the Secretary.

"(J) The term 'power input' means the power consumption in watts of a ballast and fluorescent lamp or lamps, as determined in accordance with the test procedures specified in ANSI standard C82.2-1984, or as may be prescribed by the Secretary.

"(K) The term 'relative light output' means the light output delivered through the use of a ballast divided by the light output delivered through the use of a reference ballast, expressed as a percent, as determined in accordance with the test procedures specified in ANSI standard C82.2-1984, or as may be prescribed by the Secretary.

"(L) The term 'residential building' means a structure or portion of a structure which provides facilities or shelter for human residency, except that such term does not include any multifamily residential structure of more than three stories above grade."

Commerce and
trade.

(2) Section 321(a)(1) of such Act (42 U.S.C. 6291(a)(1)) is amended by inserting the following before the period at the end thereof: "except that such term includes fluorescent lamp ballasts distributed in commerce for personal or commercial use or consumption."

(3) Section 321(a)(6)(B) of such Act (42 U.S.C. 6291(a)(6)(B)) is amended by striking out "(13)" and inserting in lieu thereof "(14)".

(b) COVERAGE.—Section 322(a) of such Act (42 U.S.C. 6292(a)) is amended—

(1) by redesignating paragraph (13) as paragraph (14); and
(2) by inserting after paragraph (12) the following:

"(13) Fluorescent lamp ballasts."

(c) TEST PROCEDURES.—Section 323(b) of such Act (42 U.S.C. 6293(b)) is amended by adding at the end the following:

"(5) With respect to fluorescent lamp ballasts manufactured on or after January 1, 1990, and to which standards are applicable under section 325, the Secretary shall prescribe test procedures that are in accord with ANSI standard C82.2-1984 or other test procedures determined appropriate by the Secretary."

(d) LABELING.—Section 324 of such Act (42 U.S.C. 6294) is amended—

(1) in subsection (a)(2)—

(A) by striking out "(2) The" and inserting in lieu thereof

"(2)(A) The"; and

(B) by adding at the end the following:

"(B) The Commission shall prescribe labeling rules under this section applicable to the covered product specified in paragraph (13) of section 322(a) and to which standards are applicable under section 325. Such rules shall provide that the labeling of any fluorescent lamp ballast manufactured on or after January 1, 1990, will indicate conspicuously, in a manner prescribed by the Commission under subsection (b) by July 1, 1989, a capital letter 'E' printed within a circle on the ballast and on the packaging of the ballast or of the luminaire into which the ballast has been incorporated."

(2) by striking out "(13)" and inserting in lieu thereof "(14)" in subsection (a)(3) and in paragraphs (1)(B), (3), and (5) of subsection (b); and

(3) by adding at the end of subsection (c) the following;

“(7) Paragraphs (1), (2), (3), (5), and (6) of this subsection shall not apply to the covered product specified in paragraph (13) of section 322.”

(e) STANDARDS.—(1) Subsection (g) of section 325 of such Act (42 U.S.C. 6295(g)) is amended—

(A) by inserting “; FLUORESCENT LAMP BALLASTS;” after “DRYERS” in the heading; and

(B) by adding at the end the following:

“(5) Except as provided in paragraph (6), each fluorescent lamp ballast—

“(A)(i) manufactured on or after January 1, 1990;

“(ii) sold by the manufacturer on or after April 1, 1990; or

“(iii) incorporated into a luminaire by a luminaire manufacturer on or after April 1, 1991; and

“(B) designed—

“(i) to operate at nominal input voltages of 120 or 277 volts;

“(ii) to operate with an input current frequency of 60 Hertz; and

“(iii) for use in connection with an F40T12, F96T12, or F96T12HO lamps;

shall have a power factor of 0.90 or greater and shall have a ballast efficacy factor not less than the following:

Application for Operation of	Ballast Input Voltage	Total Nominal Lamp Watts	Ballast Efficacy Factor
one F40T12 lamp	120	40	1.805
	277	40	1.805
two F40T12 lamps.....	120	80	1.060
	277	80	1.050
two F96T12 lamps.....	120	150	0.570
	277	150	0.570
two F96T12HO lamps	120	220	0.390
	277	220	0.390

“(6) The standards described in paragraph (5) do not apply to (A) a ballast which is designed for dimming or for use in ambient temperatures of 0° F or less, or (B) a ballast which has a power factor of less than 0.90 and is designed for use only in residential building applications.

“(7)(A) The Secretary shall publish a final rule no later than January 1, 1992, to determine if the standards established under paragraph (5) should be amended, including whether such standards should be amended so that they would be applicable to ballasts described in paragraph (6) and other fluorescent lamp ballasts. Such rule shall contain such amendment, if any, and provide that the amendment shall apply to products manufactured on or after January 1, 1995.

“(B) After January 1, 1992, the Secretary shall publish a final rule no later than five years after the date of publication of a previous final rule. The Secretary shall determine in such rule whether to amend the standards in effect for fluorescent lamp ballasts, including whether such standards should be amended so that they would be applicable to additional fluorescent lamp ballasts.

“(C) Any amendment prescribed under subparagraph (B) shall apply to products 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;

except that in no case may any amended standard apply to products manufactured within three years after publication of the final rule establishing such amended standard.”.

(2) Subsection (i) of section 325 of such Act (42 U.S.C. 6295(i)) is amended by striking out “(13)” in paragraphs (1) and (2) and inserting in lieu thereof “(14)”.

(3) Subsection (e)(1)(C) of section 325 of such Act (42 U.S.C. 6295(e)(1)(C)) is amended by inserting “Volume” after “Rated Storage”.

(4) Section 325 of such Act (42 U.S.C. 6295) is amended—

(A) in subsection (j)(B)—

(i) by inserting “fluorescent lamp ballasts,” after “clothes dryers,”; and

(ii) by striking out “heating” and inserting in lieu thereof “heating”; and

(B) in subsection (k)—

(i) by inserting “and in paragraph (13)” after “(11)” in paragraph (1); and

(ii) by inserting “fluorescent lamp ballasts,” after “clothes dryers,” in paragraph (3)(B).

(f) EFFECT ON OTHER LAW.—(1) Section 327(b)(1) of such Act (42 U.S.C. 6297(b)(1)) is amended by inserting before the semicolon at the end the following: “, or in the case of any portion of any regulation which establishes requirements for fluorescent lamp ballasts, was prescribed or enacted before the date of the enactment of the National Appliance Energy Conservation Amendments of 1988”.

(2) Section 327(b)(4) of such Act (42 U.S.C. 6297(b)(4)) is amended by inserting before the semicolon at the end the following: “, or is a regulation (or portion thereof) regulating fluorescent lamp ballasts other than those to which paragraph (5) of section 325(g) is applicable”.

(3) Section 327(c)(1) of such Act (42 U.S.C. 6297(c)(1)) is amended by inserting before the semicolon at the end the following: “, except that a State regulation (or portion thereof) regulating fluorescent lamp ballasts other than those to which paragraph (5) of section 325(g) is applicable shall be effective only until the effective date of a standard that is prescribed by the Secretary under paragraph (7) of such section and is applicable to such ballasts”.

State and local governments.

Approved June 28, 1988.

LEGISLATIVE HISTORY—S. 2167 (H.R. 4158):

HOUSE REPORTS: No. 100-685 accompanying H.R. 4158 (Comm. on Energy and Commerce).

SENATE REPORTS: No. 100-345 (Comm. on Energy and Natural Resources).

CONGRESSIONAL RECORD, Vol. 134 (1988):

May 19, considered and passed Senate.

June 13, H.R. 4158 considered and passed House; proceedings vacated and S. 2167 passed in lieu.