CALIFORNIA REGULATORY NOTICE REGISTER 2021, VOLUME NUMBER 13-Z

March 10, 2021

/s/ For Dale P. Mentink Attorney IV

Copy:

Kathleen Allison, Secretary [without attachment] Anthony Carter, CCII [without attachment]

SUMMARY OF REGULATORY ACTIONS

REGULATIONS FILED WITH THE SECRETARY OF STATE

This Summary of Regulatory Actions lists regulations filed with the Secretary of State on the dates indicated. Copies of the regulations may be obtained by contacting the agency or from the Secretary of State, Archives, 1020 O Street, Sacramento, CA 95814, (916) 653–7715. Please have the agency name and the date filed (see below) when making a request.

Air Resources Board File # 2021–0129–01 Advanced Clean Trucks Regulation

In this rulemaking, the California Air Resources Board (CARB) adopted two new regulatory components. First, it requires manufacturers to sell Zero Emission Vehicles (ZEVs) as an increasing percentage of annual truck sales in California. Second, it requires one-time reporting of information from large organizations including retailers, manufacturers, and government agencies about their medium- and heavyduty vehicle fleet.

Title 13 Adopt: 1963, 1963.1, 1963.2,1963.3, 1963.4, 1963.5, 2012, 2012.1, 2012.2 Filed 03/15/2021 Effective 03/15/2021 Agency Contact: Bradley Bechtold (916) 322–6533

California Department of Tax and Fee Administration File # 2021–0225–02 Hospitals and Other Medical Facilities

This request by the California Department of Tax and Fee Administration for the filing of regulations with the Secretary of State and printing them in the California Code of Regulations concerns the sales and use tax liability of medical facilities for tangible personal property furnished in connection with medical services. This action is exempt from the Administrative Procedure Act and Office of Administrative Law review under Government Code section 15570.40(b).

Title 18 Amend: 1503, 1591 Filed 03/17/2021 Effective 03/17/2021 Agency Contact: Kim DeArte (916) 309–5227

California Energy Commission File # 2020–1218–02 Repeal Self–Contained Lighting & Amendments

This action by the California Energy Commission amends appliance efficiency regulations by repealing the self-contained lighting control requirements, making updates to confirm with federal law, removing outdated minimum lumen output requirements for portable luminaires and modifies data submittal requirements for certain appliances.

Title 02	
Amend: 1601, 1602, 1604, 1605, 1605.1, 1605.2,	
1605.3, 1606, 1607	
Filed 03/16/2021	
Effective 03/16/2021	
Agency Contact:	
Corrine Fishman (916) 654–49'	76

California Gambling Control Commission File # 2021–0205–01 Licensing Correction

This action by the California Gambling Control Commission (Commission) makes changes without regulatory effect to the Commission's licensing regulations.

Title 04 Amend: 12057, 12130, 12470 Filed 03/16/2021 Agency Contact: Adrianna Alcala–Beshara (916) 261–4259

California Gambling Control Commission

File # 2021–0301–02

Financial Report Requirements and Temporary Table Decreases

In this emergency rulemaking action, the Commission amends regulations to require licensees to submit copies of independent auditor's or accountant's reports no longer than 270 calendar days following the end of the fiscal year covered by the financial statements. The Commission also amends Form CGCC-CH7-07 to include requests for temporary reductions of tables and additional temporary tables.

DOCKETED	
Docket Number:	20-AAER-01
Project Title:	Amendments to the Title 20 Appliance Efficiency Regulations Rulemaking
TN #:	237318
Document Title:	Final Statement of Reasons (FSOR)
Description:	Final Statement of Reasons, including responses to comments received, for the 2020 Repeal of Self-Contained Lighting Controls and Other Amendments Rulemaking
Filer:	Carlos Baez
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	3/26/2021 11:47:15 AM
Docketed Date:	3/26/2021

CALIFORNIA ENERGY COMMISSION 1516 Ninth Street Sacramento, California 95814

Main website: www.energy.ca.gov CEC-57 (Revised 1/19)



FINAL STATEMENT OF REASONS

2020 Repeal of Self-Contained Lighting Controls and Other Amendments Z # 2020-0929-03

UPDATE OF THE INITIAL STATEMENT OF REASONS

There were no modifications to the regulation text following the close of the public comment period. No changes or updates to the ISOR are necessary.

LOCAL MANDATE DETERMINATION

The California Energy Commission has determined that this action will not result in a local mandate on local agencies or school districts.

CONSIDERATION OF ALTERNATIVE PROPOSALS

The Energy Commission determined pursuant to Government Code Section 11346.9(a)(4) that no alternative before it would be more effective in carrying out the purpose for which this action is proposed, no alternative would be as effective as and less burdensome to affected persons than the adoption of the proposed regulation, or would be more cost effective to affected private persons and equally effective in implementing the statutory policy or other provision of law.

Except as discussed in the summary and response to comments, no alternatives were recommended.

ALTERNATIVES THAT WOULD LESSEN ADVERSE ECONOMIC IMPACT ON SMALL BUSINESSES

The CEC considered impacts to small businesses and alternatives in the Notice of Proposed Action and the Initial Statement of Reasons, and hereby incorporates these discussions by reference. The CEC did not identify any small businesses that will be adversely impacted by the adopted regulations. The adopted regulations are not likely to have a significant adverse economic impact on small business and no alternatives were proposed that would lessen any adverse economic impact on small business. For the purposes of this analysis, the CEC used the consolidated definition of small business in Government Code section 11346.3(b)(4)(B).

INCORPORATION BY REFERENCE

No documents are proposed to be incorporated by reference.

SUMMARY OF RESPONSES TO PUBLIC COMMENTS RECEIVED

All responses to public comments, including acceptance of recommendations and justification when recommendations were not accepted, are hereby incorporated by reference to this Final Statement of Reasons, and included in the rulemaking file.

Written Comments Received 2020 Repeal of Self-Contained Lighting Controls and Other Amendments Title 20, Division 2, Chapter 4, Article 4 California Code of Regulations 45-Day Comment Period October 9, 2020 Through November 23, 2020

Commenter's Name	Comments/	Response
	Suggested Revisions	
Alex Boesenberg	General Letter of Support	No response required
and Phil Squair,		
National Electrical		
Manufacturers		
Association		
Stephen R. Irving,	Lutron supports the proposed removal of	General comment of support.
Lutron Electronics	Self-Contained Lighting Controls from	No Response required.
Co., Inc.	Title 20 Appliance Efficiency Regulations	
	as it eliminates redundant requirements	
	and reduces confusion about	
	certifications.	
	1 Elimination of Podundant	
	1. Elimination of Redundant Poquiromonts	
	As stated in the Initial Statement of	
	Reasons (ISOR), requirements for	
	Lighting Controls were transitioned to the	
	Title 24 Building Energy Code during the	
	2019 revision leaving duplicative	
	requirements in Title 20 Elimination of	
	these Title 20 requirements was	
	anticipated during that development and	
	continues to be appropriate today.	
Stephen R. Irving,	2. Eliminate Customer Confusion	Comment Acknowledged.
Lutron Electronics	regarding Certification Requirements	No changes required.
Co., Inc.	Lutron has received several questions	Yes, if this rulemaking were to be approved and
	about certifications in the MAEDbS for	adopted, we would then archive all current listings of
	Systems-Based Lighting Controls from	self-contained lighting controls in MAEDbS and
	our customers in California. These	prevent the submission of new models of lighting
	customers were accustomed to	controls. The models will still be searchable for

Commenter's Name	Comments/	Response
	Suggested Revisions	
	certifications for our <i>Self-Contained</i> Lighting Controls and expected the same for our <i>Systems-Based</i> Lighting Controls. One can easily understand their confusion as the two types of controls are frequently used to fulfill the same customer need (use case).	historical purposes, but new certifications will no longer be required or permitted. We will post notifications within the MAEDbS system to inform users of the changes and also send out a list server email notice.
	Archiving existing certifications for Self- Contained Lighting Controls in the MAEDbS is the best fix. Customers looking for certifications simply wanted to ensure that they comply with CEC requirements. There is no need to maintain certifications for Lighting Controls.	
	To prevent further confusion during this transition, we recommend that all existing database entries be archived at the same time and that any MAEDbS searches for Lighting Controls return a simple explanation informing customers that certification is no longer required. This explanation will help prevent concern from customers and retailers who buy, use, and sell these energy-saving devices.	
Steve McCarthy		Comment Acknowledged
Vice President,	Out of my own confusion I missed this	No Change
Public Policy California Retailers Association	morning's hearing and had intended to testify. I wonder if there is any remaining opportunity to have further conversation about portable luminaires, and specifically the requirement for prepackaged bulbs? We expressed our concern in last year's proceeding on specialty bulbs that with the marketplace limited to high	Thanks for reaching out to us. Yes, we recognize that the "bulb-in-the-box" requirement needs to be reassessed, mainly due to subsequent appliance rulemakings and LED market transformation, which has increased efficiency in lighting.

Commenter's Name	Comments/	Response
	efficiency bulbs, it would render obsolete the subsection (n)(4) that those bulbs be included pre-sale on portable luminaires. In fact, that requirement may now be a net contributor to the waste stream, in addition to making the products more expensive for consumers and limiting product options. We noted that this issue is not part of this particular update. Would it be possible to connect on this? My apologies for the lateness of this issue and thank you for any help you can provide.	Unfortunately, besides the proposed removal of the minimum light output requirement, no additional changes regarding portable luminaires can be made in this current rulemaking (docket 20-AAER-01) because it would be outside of the limited scope for this rulemaking. Staff considered additional changes to portable luminaires at the time the rulemaking was started, but realized that additional changes would involve other products covered and/or efficiency requirements, which would require significant research and staff report, an effort that could not be undertaken at the time. However, we anticipate a rulemaking in the future to fully address portable luminaire requirements in Title 20. When this happens, we would reach out to industry to gain further insights into this topic. If you haven't already, please subscribe to our "appliances" list server to receive email updates on all rulemaking activity for Title 20. You would receive an email when this new rulemaking is eventually initiated. You can sign up here: https://ww2.energy.ca.gov/listservers/index_cms.html

Public Hearing Comments Received 2020 Repeal of Self-Contained Lighting Controls and Other Amendments Title 20, Division 2, Chapter 4, Article 4 California Code of Regulations Public Hearing December 3, 2020

Commenter's Name	Comments/ Suggested Revisions	Response
	No Comments were received during the public hearing	

DOCKETED	
Docket Number:	20-AAER-01
Project Title:	Amendments to the Title 20 Appliance Efficiency Regulations Rulemaking
TN #:	237184
Document Title:	Final Approval from OAL
Description:	Office of Administrative Law Approval, Final Form 400 and Final Regulatory Text.
Filer:	Corrine Fishman
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	3/16/2021 2:56:01 PM
Docketed Date:	3/16/2021

State of California Office of Administrative Law

lo re: California Energy Commission	NOTICE OF APPROVAL OF REGULATORY ACTION
Regulatory Action:	
Title 02, California Code of Regulations	Government Code Section 11349.3
Adopt sections: Amend sections: 1601, 1602, 1604, 1605, 1605.1, 1605.2, 1605.3	OAL Matter Number: 2020-1218-02
1606, 1607 Repoal sections:	OAL Matter Type: Regular (\$)

This action by the California Energy Commission amends appliance efficiency regulations by repealing the self-contained lighting control requirements, making updates to confirm with federal law, removing outdated minimum lumen output requirements for portable luminaires and modifies data submittal requirements for certain appliances.

OAL approves this regulatory action pursuant to section 11349.3 of the Government Code This regulatory action becomes offective on 3/16/2021.

Date: March 16, 2021

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Kevin D. Hull Senior Attorney

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For: Kenneth J. Pogue Director

Original: Drew Bohan, Executive Director Copy: Corrine Fishman

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Proposed Regulatory Language

California Code of Regulations Title 20. Public Utilities and Energy Division 2. State Energy Resources Conservation and Development Commission Chapter 4. Energy Conservation Article 4. Appliance Efficiency Regulations Sections 1601-1609

Proposed new language appears as underline (<u>example</u>) and proposed deletions appear as strikeout (example). Existing language appears as plain text. Three dots or "..." represents the substance of the regulations that exists between the proposed language and current language.

§ 1601. Scope.

This Article applies to the following types of new appliances, if they are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles, or other mobile equipment. Unless otherwise specified, each provision applies only to units manufactured on or after the effective date of the provision.

NOTE: For the applicability of these regulations to apphances installed in new building construction, see sections 110.0 and 110.1 of part 6 of Title 24 of the California Code of Regulations,

...[skipping (a) through (k)]

(b) Emergency lighting, which is illunamated exit signs-and self-contained lighting controls.

...[skipping the rest of section 1601]

Note: Authority cited: Sections 25213, 25218(e), 25401.0, 25402(a)-25402(c), and 25960, Public Resources Code; and sections 16, 26, and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015) Reference: Sections 25216.5(d), 25401.9, 25402(a) 25402(c), 25402.5.4, and 25960, Public Resources Code; and section 16, Governor's Exec. Order No. B 29-15 (April 1, 2015).

§ 1602. Definitions.

(a) General.

In this Article the following definitions apply. If a term is not defined here, the applicable definition in NAECA, EPAct, the EPAct 2005, EISA, or the test methods listed in section 1604 of this Article shall apply where it is reasonable to do so.

...[skipping "AC" through "Color readering index (CRI)"]

"Commercial and industrial equipment" means an article of equipment, regardless of whether it is in fact distributed in commerce for industrial or commercial use, of a type which:

In operation consumes, or is designed to consume energy;

- (2) To any significant extent, is distributed in commerce for industrial or commercial use: and
- (3) Is not a consumer product, as defined in section 1602(a) of this Arbele-

...[skipping the rest of (a)]

...[skipping (b)]

(c) Air Conditioners, Air Filters, and Heat Pump Water-Heating Packages.

...[skipping "Air conditioner" through "Air-source heat pump"]

"Basic model" of a federally regulated central air conditioner or central air conditioning heat pump means all units of a given type of central air combininer or central air conditioning heat pump (or class thereof) manufactured by one manufacturer, having the same primary energy source, and which have essentially identical electrical, physical, and functional (or hydraulic) characteristics that affect energy consumption, energy efficiency, water consumption, or water efficiency. With respect to central air conditioners and central air conditioning heat pumps, essentially identical electrical physical, and functional for hydroulic) characteristics means:

- (1) for split systems manufactured by outdoor unit manufacturers; all individual combinations having the same model of outdoor unit, which means comparably performing compressor(s) [a variation of no more than five percent in displacement rate (volume per time) as rated by the compressor manufacturer, and no more than live percent in capacity and power input for the same operating conditions as rated by the compressor manufacturer), outdoor coil(s) [no more than hye percent variation in face area and total fin surface area; same fin material; same tube material], and outdoor fan(s) [no more than ten percent variation in air flow and no more than twenty percent variation in power input];
- (2) for split systems having indoor units manufactured by independent coll manufacturers: all individual combinations having comparably performing indoor coil(s) plus or minus one square foot face area, plus or minus one fin per mth fin density, and the same fin material, tube material, number of tube rows, tube pattern, and tube sizel; and
- (3) for single-package systems: all individual models having comparably performing compressor(s) (no more than five percent variation in displacement rate (volume pertime) tated by the compressor manufacturer, and no more than five percent variations in capacity and power input rated by the compressor manufacturer corresponding to the same compressor rating conditions), outdoor col(s) and indoor coilts) [no more than five percent variation in face area and total fin surface area; same fin material; same tube material], outdoor fan(s) [no more than ten percent variation in outdoor air flow), and indoor blower(s) (no more than ten percent variation in indoor air flow, with no more than twenty percent variation in fan motor power input]:
- (4) except that:
 - (A) for single-package systems and single-split systems, manufacturers may instead choose to make each individual model/combination its own basic model provided the testing and represented value requirements in 10 C.F.R. section 429.16 are met; and
 - (B) For multi-split, multi-circuit, and multi-head mini-split combinations, a basic model may not include both individual small-duct, high velocity (SDHV) combinations and non-SDHV combinations even when they include the same model of outdoor unit. The manufacturer may choose to identify specific individual combinations as additional basic models.

...[skipping the rest of (c)]

(d) Portable Air Conditioners, Evaporative Coolers, Ceiling Fans, Ceiling Fan Light Kits, Whole House Fans, Residential Exhaust Fans, Dehumidifiers, and Residential Furnace Fans.

...[skipping "Adjusted cooling capacity at 83 F conditions" through "Evaporative cooler"]

"Evaporative cooler efficiency ratio (ECER)" means a measure of the cooling efficiency defined in Table D Had section 1604(d) of this Article.

...[skipping the rest of (d)]

(e) Gas and Oil Space Heaters and Electric Residential Boilers.

...[skipping "Annual fuel utilization efficiency (AFUE)" through "Central furnace"]

"Combination space-heating and water heating apphance" means an appliance that is designed to provide both space heating and water heating from a single primary energy source.

"Combined annual efficiency (CAE)" means ((SHF x Effy, 7100) + (WHF x Effy, 7100) + (R x NHF x EF)] divided by [SHF – WHF ϵ (R x NHF)] as defined in the applicable test method to section 1604(e)(3) of this Article.

"Combustion efficiency of a space heater" means a measure of the percentage of heat from the combustion of gas or oil that is bransferred to the space being heated or lost as jacker loss, as determined using the applicable test method in section 1604(er of this Article.

"Combination space-heating and water-heating appliance" means an appliance that is designed to provide both space beating and water heating from a single primary energy source.

"Combustion efficiency for a commercial packaged boiler" means the efficiency descriptor for packaged boilers, determined using test procedures prescribed under 10 C.F.R. section 431.86 and is equal to 100 percent minus percent flue loss (percent flue loss is based on input fuel energy).

"Combustion efficiency of a space beater," means a measure of the percentage of heat from the combustion of gas or oil that is transferred to the snace being heated or last as jacket loss, as determined using the applicable test method in sertion 1604(o) of this Article.

...[skipping the rest of (e)]

(f) Water Heaters.

...[sklpping "Activation lock" through ""Gas-fired instantaneous water heater" that is a federally regulated consumer product"}

"Gas-tired tastantaneous water heater" that is federally regulated commercial and industrial equipment means a water heater that uses gas as the main energy source, and has a rated input both greater than 200,000 Btu/h and not less than 4,000 Btu/h per gallon of stored water.

...[skipping the rest of (f)]

. .[skipping (g) through (k)j

Emergency Lighting and Self-Contained Lighting Controls.

"Astronomical time switch control" mcans an automatic time-switch control device capable of controlling lighteng based on the time of day and astronomical events such as sunset and sumper, accounting for geographic location and date of the year.

"Automatic daylight-control" means a self-contained lighting control device that automatically adjusts lighting levels by using one or more photosensors to detect changes in daylight illumination and then changing the electric lighting level in response to the changes in daylight.

"Automatic time switch control" means a self-contained lighting control-device that controls lighting haved on the time of day:

"Average Enminance" means the arithmetic mean of all points measured on a surface.

"Dimmer" means a self-contained lighting control device that varies the electer. light humen output in order to change the level of illumination and energy use.

"Off-switch" means one of a set of small on-off switches mounted inside a self contained lighting control that modifies the two-tionabity of the lighting control.

"Edge-lit exit sign" means an illuminated exit sign in which lettering erched into a glass, plashe, or similar panel is illuminated through the edge of the panel and in which the lettering and the background are luminous.

"Electrolominescent light source" means a solid state device which produces light when an electric curtent is passed through a phosphor-impregnated material.

"Face" means an illuminated side of an illuminated exit sign.

"Illuminated exit sign" means a sign that:

- (1) is designed to be permanently fixed in place to identify an exit; and
- (2) consists of:
 - (A) an electrically powered integral light source that illuminates the legend "IXII" and any directional indicators; and
 - (B) provides contrast between the legend, any directional indicators, and the background.

"Input power" means the rate of cheetcies consumption, in watts, of an illuminated car sign

"Input power demand" means the amount of power required to continuously illuminate an exit sign model, measured in watts. For exit sign models with rechargeable batteries, input power demand shall be measured with batteries at full charge

"Fighting control system"-means a lighting control in which two or more components are required to be installed in the field to provide all of the functionality required to make a fully tenetional and compliant lighting control. Lighting control systems are regulated under sections 119 and 134 of the 13th 24 of the California Code of Regulations.

"Lummance" mcans a measure of the brightness of a luminous surface.

"Luminance contrast" means the relative brightness of an object against its background.

"Matrix illuminated exit sign" means on illuminated exit sign that uses an array of smalllight sources, such as LEDs, to form the lettering of a sign.

"Maximum to minimum hunumance ratio" means the ratio of maximum to minimum huminance where the luminance should be uniform.

"Occupant sensing device" means a self contained lighting rentrol-thut-autometically controls light, allows for complete manual operation, and meludes the following devices:

- (1) "Motion sensor," which means an occupant sensing device that to used outdoors, automatically turns lights off telers an area is variated, and automatically turns the lights on when the user is occupied.
- (2)-"Occupancy sensor." which means an occupant sensing device that is used indoors and automatically turns lights off when an area is vacated and is rupable of automatically turning lights on when an area is occupied.
- (3) "Partial-off," which means a motion sensor or occupancy schoor that automatically furns off part of the lighting load when an area is vacated and is capable of automatically-turning on the lighting load when an area is occupied.
- (4) "Partial on." which means a motion sensor or occupancy sensor that automatically terms lights off when an area is vacuted and is republe of automatically and manually turning on part of the lighting load when an area is occupied.
- (5) "Vacancy sensor," which means an occupant sensing device that automatically turns lights off when on area is vecated but requires lighting hants to be torned on manually;

"Panel-type exit sign" means an illuminated exit sign in which a translucent panel diffuses a light source and in which both the leftering and background are luminous.

"Photo control" means an automatic daylight control-device that actomatically turned lights on and off; or automatically adjusts lighting levels, in response to the amount of daylight that is available. A photo control may also be one component of a field assembled lighting system, the component having the capability to provide a signal proportional to the amount of daylight to a lighting control system for the purpose of dimming the electric lights.

"Photometric measurements" means the measurements of huminance levels made on the face of the sign.

"Self-contained lighting control" means a unitary lighting control module where no additional components are required for it to be a fully functional lighting control. Selfcontained lighting control includes an astronomical time switch control; an automatic daylight control: an automatic time switch control; a dimmer; a lighting photo control; or an accupant sensing device.

"Stenril filummated exit sign" means an illuminated exit sign in which an opaque panel conceals the light source and in which only translatent lettering is luminous.

"Wall box dimmer" means a dimmer monufactured and intended to be mounted inside an electrical box within a wall:

[end of (l)]

.. [skipping (ni) through (x)]

The following documents are incorporated by reference in section 1602.

Number

Title

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI C78.1-1991 (R1906)	Dimensional and Electrical Characteristics of Fluorescent Lamps, Rapid Stort Types
ANSI C78.3 (1991) (R19986)	Dimensional and Electrical Characteristics of Fluorescent Lamps, Instant Start and cold Cathode Types
ANS[C78.21-1989	(neandescept Lamps - PAR and R Shapes
ANSI C78.20/2003	Am <u>erican National Standard for effectric Bamps - A, G, PS, and</u> Similar Shopes with E26 Medium Screw Bases
ANSI C78,81-2003	Americ an Nati ona l Standa rd for Elec tric Lamp Bases <u>Electric</u> La <u>mps – Double-Cam</u> ed (<u>Igoresc</u> ent L <u>amps – Double-Cam</u> ed (I <u>goresc</u> ent L <u>amps – Double-Cam</u> ed and Electrical Characteristics

..[skipping the resulf "AMERICAL NATIONAL STANDARDS INSTITUTE (ANSD"]

...[skipping the rest of section 1602]

Note: Authority cited: Sections 25213, 25218(c), 25401.9, 25402(a) 25402(c) and 25960, Public Resources Code; and Sections 16, 26 and 30, Governor's Ever. Order No. B-29-15 (April 1, 2015). Reference: Sections 25216.5(d), 25401.9, 25402(a)-25402(c), 25402.5.4 and 25960, Public Resources. Code; and section 16, Governor's Exec. Order No. B-29-15 (April 1, 2015).

§ 1602.1 Rules Of Construction.

[No Changes]

§ 1603. Testing: All Appliances.

[No Changes]

§ 1604. Test Methods for Specific Appliances.

(a) Refrigerators, Refrigerator-Freezers, and Freezers.

...[skipping (a)(1) through (a)(3)]

(4) The test method for water dispensers is EPA Energy Star Program Requirements for Bottled Water Coolers (2004). EXCEPTION to Section 1604(a)(4) of this Article: Water dispensers equipped with an integral, automatic timer. Water dispensers equipped with an integral, automatic timer shall not be tested using Section 400. "Timer Usage." of the referenced test method.

[end of (a)]

...[skipping (b) through (f)

(g) Pool Heaters; Portable Electric Spas; Residential Pool Pump and Motor Combinations, and Replacement Residential Pool Pump Motors; and Pumps, Dedicated-Purpose Pool Pumps, and Replacement Dedicated-Purpose Pool Pump Motors.

...[skipping (g)(1)]

(2) Test Method for Portable Electric Spas.

.. [skipping (2)(A) through (2)(B)]

(C) Test lab report requirements for portable electric spas manufactured on or after Jone 1, 2019. In addition to the requirements of section 5 of ANSI/APSP/ICC-14 2014 and section 1606 Table N, test lab reports shall include: date of test; minimum and maximum water temperatures settings; copy of the label(s) pet section 1607(d)(4-0(15)(8); minimum, maximum, and average water temperatures during test; minimum, maximum, and average ambient air temperatures during test; length of test (in hours); record and plot ambient air temperature (in degrees Fahrenheit), water temperature (in degrees Fahrenheit), current (in amps), and voltage (in volts) at a maximum interval of five minutes during test; and, for initiatable spas, a list of the accessories that were tested with the spa.

...[skipping the rest of (g)]

...[skipping (h) through (j)]

(k) Lamps.

- The test method for general service incandescent lamps, incandescent reflector lamps, and federally regulated general service fluorescent lamps is 10 C.F.R. section 430.23(r) (Appendix R to subpart B of part 430).
- (2) The test method for compact fluorescent lamps is 10 C.F.R. section 430.23(y) (Appendix W to subpart B of part 430).
- (3) The test method for integrated LED lamps is 10 C.F.R. section 430.23(re) (Appendix BB to subpart B of part 430). For certification, compliance, and enforcement purposes, the sampling provisions in 10 C.F.R. section 429.56 shall be used.
- (4) The optional test methods for state-regulated small diameter directional lamps and state regulated HED lamps are shown in Table K-1. Optional test procedures are conditionally required depending on manufacturer claims of performance as described in sections 1807(d)(23)(12) of this Article and 1606 Table X of this Article. For certification, compliance, and enforcement purposes, the sampling provisions in 10 C.F.R. section 429.56 shall be used.

.. [skipping the rest of (k)]

Emergency Lighting and Self-Contained Lighting Controls.

- (1) Emergency Lighting. The test method for illuminated exit signs is 10 L.E.R. section. 431.204(b).
- (2) Self-Contained Lighting Controls. There is an test method for self-contained lighting controls.

fend of (b)

...[skipping (m)]

(n) Luminaires and Torchieres.

...[skipping (n)(1) through (p)(3)]

(4) Portable Luminaires.

(A) The test methods for (III) luminaires using (III) lamps are shown in Table K-1 of section 1604(k)(4)(3) of this Article.

...[skipping the rest of (n)]

...[skipping (o) through (v)]

(w) Battery Chargers and Battery Charger Systems.

...[skipping (w)(1)]

(2) Test Method for Small Battery Charger Systems. The test method for small battery charger systems that are not federally regulated battery chargers, federally regulated uninterruptible power supplies, battery backups, or non-federally regulated uninterruptible power supplies is 10 C.f.R. section 430.23(aa) (Appendix Y to subpart B of part 430) (Jan. 1, 2017)

.jskipping (2)(A) through (2)(C))

(D) Small battery charger systems that are not consumer products may use the battery manufacturer's recommended end of discharge voltage in place of values in 10 C.F.R. section 420,23(a.) (Appendix Y to subpart B of part 130) (Jan.J. 2017), Table 3.3.2, where the table's values are not applicable.

... [skipping the rest of (w)]

...[skipping (x)]

The following documents are incorporated by reference in section 1604.

...[skipping CALIFORNJA ENERGY COMMISSION TEST METHODS]

FEDERAL TEST METHODS

C.F.R., Title 10, sections 429,56, 429 63, and 429,70

...[skipping the rest of FEDERAL TEST METHODS]

... [skipping the rest of section 1604]

Note: Authority cited: Sections 25213, 25218(e), 25401.9, 25402(a)-25402(c) and 25960, Public Resources Code; and Sections 16, 26 and 30, Governor's Exec. Order No. B-29415 (April 1, 2015). Reference: Sections 25216.5(d), 25401.9, 25402(a)-25402(c) and 25960, Public Resources Code; and section 16, Governor's Exec. Order No. B-29415 (April 1, 2015).

§ 1605. Energy Performance, Energy Design, Water Performance, and Water Design Standards; In General.

...[skipping (a) through (f)]

(g) Portable Air Conditioners. If a model of portable air conditioner sold or othered for sale in California has both single-duct and dual-duct configuration options, both configurations must meet the applicable standard in section 1605.0 <u>of this Article.</u>

Note: Authority cited: Sections 25213, 25218(e), 25402(a)-(c), and 25960, Public Resources Code, Reference: Sections 25216.5(d), 25402(a)-(c), and 25960, Public Resources Code,

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§ 1605.1. Federal and State Standards for Federally Regulated Appliances.

(a) Refrigerators, Refrigerator-Freezers, and Freezers.

- (1) Non-Commercial Refrigerators, Non-Commercial Refrigerator-Freezers, and Non-Commercial Freezers.
 - (A) The energy consumption of non-commercial refrigerators designed for the retrigerated storage of food at temperatures above 32F and below 39F, configured for general refrigerated food storage, non-commercial refrigerator freezers, and noncommercial freezers, including drawer units, and kitchen units that arr manufactured on or after the effective dates shown shall be not greater than the applicable values shown in Table A-2. The standards shown in Table A-2.do not apply to non-commercial refrigerators and non-commercial refrigerators with total with total refrigerated volume exceeding 39 II; or non-commercial freezers with total refrigerated volume exceeding 30 II;

Product class	Maximum Energy Use
	2 (DALL - 275.0
 Define stor frequency and calcoperators other than all-refrigerators with manual defrost 	7 36/44 4 225 0
T Renjoed with the 2 to the device the second state of the second s	6 704// + 193 6
14 - Alt-re-Figerance - manual Colices	0 240av + 193.6
	7 XIAV + 225.0
2. Refrigerator-freezors, -partial automatic defrust	0.282av + 225 0
To respect to a submatic regime with lot-invulled inserts will out an automatic idemaker	8.07AV - 233 7
	0.225av + 233 7
"UDL Buill- o refrectator-freezer-automatic detrast with top-mounted freezer without an automatic	3 15AV + 264.3
	<u>C 32384 + 204 9</u>
Di. Refi gerator-frozzersautomatic dofrosi with top-mounted treatar with an automatic ideataker wahout	6.37AV + 317.7
through the door on service	0.2020 + 328 4
31-D. Built-in refrigerator-freezers automatic definist with top-mourned freezer with an automatic cemeixer	0.121/30 = 348.9
without through the coording service	7.07AV - 2016
26 A Lestre stres-store - Sulor alle defest	d 250ay 1 281.5
	R 02AV 4 228 5
AA-BL Burtrin All refricerators—automatic defrost	0 28.1zy / 228.5
in the second second with second with second provide without an automatic internation	8.51AV + 297.6
2, Reingerater-Reezam-Lactorised of their with side-involution in each statement and and	0.301av / 29 <u>7.6</u>
a number Distance for any substanting with site mouthed insorter without an automatic	10 22AV + 357.4
4-Bi Buit a Residenti incere s-Ann finn centra for the formation of the	<u> 0 (vii 1.49 + 357.4</u>
Certified and the second s	8:5'AV + 3818
	<u> 3 301av + 381.6</u>
another with a second	10.2247 + 441.4
is white without [brouch-lbe-dou ice service	0 361av + 4 <u>11.4</u>
teen enne without a stational in the battery mounted feeter without an automatic identifier	88540 + 317.0
5 Refrigerator-Treezers—automatic deatos: war politicit incomes needed without proceedings and the second s	0.31288 + 311.0
5-B., Suil-in Reli yerator freezers—automatic defrost with becommousted freezer workul an automatic	0 27270 A 1305.9
remak≞r	0.33289 4 510.5 8 9500 + 4010
5), Reingerator freezers—automatic defrost with trottom-mountari freezer with an automator Cemaker	5.39250 + 401.0
without through the doubt ice sorvice	D 4DAX + 120 6
51-8., Built-in Reingerstor-frenzers -automatic defrest with boltom mounted trasper with an automatic	10337x + 423.9
conjaker without Birgugh-tha-door inte service	9 2551/ + 475 4
54. Reframsky franzer-, automatic defined with bottom-mounted freezer with through-the-door the service	0.327av + 475 4
service and service and the service service before any transmission of the story	9.83AV ~ 499.9
5A-BL Bullyin reingerstür-merzon- autorialit opmiss with bottomenicatives meezer with stradigite relevant	0.347av + 499 9
1 ICO SERVICE	B 40AV + 385 4
Reingerator-freezers—automatic defrost with top-mountait freezer with through-the-coor ice senace	0 297av + 385 4

Table A-2 Standards for Non-Commercial Refrigerators, Refrigerator-Freezers, and Freezers

Product class	Maximum Energy Use (KWN/year)* Equation
7. Refrigerator-freezersautomatic celrost with side-mounted freezer with through-the-door ice service	8.54AV + 432.8
7-B1. Built-In Refrigerator-freezers—automatic defrost with extermounted freezer with through-like-deprice	
Service	0 362av + 502.6
8. Opright freezers with manual defvosi	5.57AV + 1837
9. Upright freezers with automatic definist without an extremely increases	<u>0.197av + 193 7</u> <u>0.62AV - 228 3</u>
	0 305ay + 228.3
9. Upright freezers with automatic defrost with an automatic roemaker	8 624V + 312.3
9-91. Bull-In Uprolit freezers with a granular defrost without an automatic instantion	9.8KAV + 201.9
	0.348av 1.260.9
9) BL Built-n upright freezers with automatic defrest with an automatic idemaker	9.86AV • 344.9
10 Chest free way and all other laws and a second sec	0 348ay + 344 9
The of early reacers and an other readers compare transformed treators	1 D 257av + (D/ 8
10A. Chesi freezont with automatic defrost	10.24AV + 149 I
	C.362av + 148 *
 Compact refrigerator-fraszers and refrigerators ofher than all-refrigerators with manual petrost. 	9.03AV + 252 3 0.319 m + 752 3
11A.Compart al-retriperaliza-manual definisi	7.84AV + 219 1
	0.277av - 219.1
12 Compact renigerator freezers-partial submatic delivest	5.91AV + 335.6
13. Company referencements from the second state of the second second second second second second second second	0 2098V + 335.6 11 605V + 919 0
	0 417av + 329 2
131 Compact refingerator-freezersautomasc defrost with top-mounted freezer with an automatic icomater	11 80AV + 423 3
	<u> 0 417av + 423 2</u> 0 47532 - 2-2-2
	D 324av + 259 3
14. Compact refrigerator freezers—automatic defrost with side-muturited (reczor	5 82AV + 456 y
141 Comoard reframman/reazer- endomate detract without meaned to a	C.241av + 456.9
-comaker	6.82AV + 540.9
15. Compart refrigerator (moverne and another delayers and burners)	<u>11 2007 + 540 9</u>
The compart reinge and ministers—automatic beneat with before impunied freezer	, 0.417av = 339.2
 Compact refrigerator-freezen:—antomatic defrost with bottom-mounted frequent with an automatic investor. 	11.8JAV - 423.2
<u></u>	0 417 <u>27 +</u> 423.2
16 Compact upright freezers with manual detrost	8 65AV 4 225 7 0 726 (c. + 226 7
17 Compact upright freezers with as remarks defines	10 17AV + 361 0
	0.359av + 351 9
18. Compact chast freezers	9 25AV + 100 8
AV - Actual test balance and a set	i <u>0.327</u> av + 136.8

Table A-2 (cont'd)

...[skipping the rest of (a)(1)]

[5kipping (a)(2) through (a)(6)]

(7) <u>Coolers Manufactured Before October</u> 28, 2019, and Water Dispensers. See section 1605.3(a) of this Article for energy efficiency and energy design standards for:
 (A) consumer refrigeration coolers manufactured before October 28, 2019; and
 (B) freezers with volume exceeding 30 ft', that do not exceed 39 ft'; and that are consumer products, and
 (B)C) water dispensers.

[end of (a)]

...[skipping (b)]

(c) Central Air Conditioners, Air Filters, and Heat Pump Water-Heating Packages.

(1) Central Air Conditioners. The FFR, DER, SEER, COP, HSPF, and SCOP, as applicable, of all central air conditioners, including computer room air conditioners, shall be not less than the applicable values shown in Tables C-3, C-4, C-5, C-6, C-7, C-8, and C-9. (A) Evaporatively Cooled Computer Room Air Conditioners. See section 1605 3(c) of this Article for energy efficiency standards for evaporatively cooled computer room air conditioners.

.. [skipping Table C-3 through Table C-4]

Table C-S

Standards for Commercial Package Air Conditioning and Heating Equipment (Water-Cooled) Air Conditioners, Commercial Package Air Conditioning and Heating Equipment (Evaporatively Cooled) Air Conditioners, and Small Commercial Package Water-Source Heat Pumps

Equipment Type	Cooling Capacity	Sub- catego ry	Heatin g Type*	Efficiency Levels	Compliance date: Equipment menufacturod starting on
	< 65,000 Blu/h	AC I	_AII	EER = 12.1	October 29, 2003
Small Commercial Package			N-E	EE <u>R = 12 1</u>	
Air Conditioning and Heating Equipment (Water-Cooled)	<u>≥ 65,000 Btµ/h and</u> < 135,000 Btu/h	<u>AC</u>	A-O	EER = 11.9	June 1, 2013
Large Commercial Packaco	≥ 135,000 Btu/h	r —	N-E	EER = 12.5	
Air-Conditioning and Heating Equipment (Water Cooled)	anđ < 240,000 Btu/h	AC	A-0	. EER = 12.3	June 1. 2014
Very Large Commercial	> 740 000 Btu/b	Γ	N-E	EER = 12.4	
Package Air-Conditioning and Heating Equipment	≥ 240,000 Bitum and < 760,000 Bluiti	AC	A-0	EER = 12.2	June 1, 2014
Small Commercial Package	< 65.000 Btu/h	AC	All.	EER - 12.1	October 29, 2003
Air-Conditioning and Healing	> 65 000 Btu/b and	Τ΄	N-E	EFR = 12.1	lupe 1, 2013
Equipment (Evaporatively Cooled)	< 135.000 Bluffs	AC	A-0	EER = 11 9	j june 1, 2013
Large Commercial Package	5 135 DOG BLock		N-E	EER = 12.0	
A'r-Conditioning and Heating Equipment (Evaporatively	and < 240.000 Btwh	AC	A-0	EER = 11.8	June 1, 2014
Very Large Commercial		AC	TN-E	EER = 11 9	
Package Air Conditioning and Heating Equipment (Evanoratively Conted)	and < 760,000 Btu/h	AC	A-0	EER = 11.7	June 1, 2014
Small Commercial Package	< 17.000 Bte/h	T	- [EER = 12.2	
Air-Conditioning and Heating	1 2 17 000 Burls and	ן HP	A'I	EER = 13.0	- October 9, 2015
Equipment (water-source. Water-to-Air, Water-Loop)	< 135,000 B(t/h			_ COP = 4.3	<u> </u>
* N-E = Nn Heating or Electric A-O = All Other Types of He	c Resistance Heating ating				

.. (skipping the rest of (c)]

(d) Portable Alr Conditioners, Evaporative Coolers, Ceiling Fans, Ceiling Fan Light Kits, Whole House Fans, Residential Exhaust Fans, Dehumidifiers, and Residential Furnace Fans.

(1) Ceiling Efans.

- (A) Ceiling fans manufactured on or after January 1, 2007 shall have the following features:
 - Fan speed controls separate from any lighting controls;
 - 2. Adjustable speed controls (either more than 1 speed or variable speed);
 - 3. The capability of reversible fan action, except for:
 - Fans sold for industrial applications;
 - b. Fans sold for outdoor applications; and
 - Cases in which safety standards would be violated by the use of the reversible mode.
- (B) Ceiling fans manufactured on or after January 21, 2020 shall meet the requirements shown in Table D 4.

Table D-4 Standards for Colling Fans Manufactured On or After January 21, 2020

Ceiling Fan Type	<u>Minimum</u> Efficiency (CFM/Watts)*		
Very small-drameter (VSD)	D ≤ 12 inches, 21 D > 12 inches: 3,16 D - 17,04		
Standard	0.65 D + 38.03		
Rugger	0 29 D + 34.46		
High-speed small-diameter (HSSD)	4.16 D + 0.02		
Large-diametor	0.91 D-30 00		
¹ D is the ceiling fan's blade span, in inches.			

EXCEPTIONS to Section 1605.1(d)(1) of this Article: The provisions in section 1605.1(d)(1) of this Article apply to ceiling have except:

- (1) Cetting fans where the plane of rotation of a ceiling fan's blades is not less than or equal to 45 degrees from horizontal, or cannot be adjusted hased on the manufacturer's specifications to be loss than or equal to 45 degrees from horizontal;
- (2) Centrifugal ceiling faus, as defined in section 1602(d) of this Article;
- (3) Belt driven ceiling fans, as defined in section 1602(d) of this Article:
- (4) Oscillating craing fans, as defined in section 1602(d) of this Arbele; and
- (5) Highly decorative reiling fans, as defined in section 1602(d) of this Article.

(2) Ceiling <u>Ffan Llight Kkins.</u>

...[skipping the rest of (d)(2)]

...[sklpping (d)(3)]

(d) Residential Efurnace Ffans. Residential furnace fans incorporated in the products listed in Table D 11 of this Article and manufactured on and after July 3, 2019, shall have a fan energy rating (FER) value that meets or is less than the values shown in Table D 11. (A) EXCEPTIONS. Furnace fans incorporated into hydronic air bandlers, SDHV modular blowers, SDHV electric furnaces, and central air conditioner/central heat pump indoor units are not subject to the standards listed in Table 9-11.

Table D-11 Energy Conservation Standards for Federally Covered Residential Furnace Fans

Product class	FER' (Watts/ 1000 cfm)
Nex Weather zerf, Noo-Condensity: Gas Eurnade Fan (NWG-NC)	FFR = 0.044 × Q _{9a} + 182
Non Meetherized, Curdensing Gas Euroace Fan (NWG C)	FER = 0.044 × Q _{M0} + <u>195</u>
Westberiged Non-Condensing Gas Furnace Fan (WG-NC)	FER = 0.044 × Qms + 139
Non-Weistling vert Non-Condensing Oil Futtitice Fan (NWO-NC)	FER = 0.071 × QMiv ~ 382
Non-Weatherized Electric Europee/Modular Blower Fan (NWEE/NWMB)	FER = 0.044 × Q _{Mov} + 165
Mobile Home Nuc Viegtoerized, Non-Condensing Gas Furnace Fan (MH-NWG-NC)	FER = 0.071 × Qr _{Jar} + 222
Wobie Home Non-Weatherized, Condensing Gas Furbace Fan (MH-NWG-C)	FFR = 0.071 × Qves + 240
Wobile Home Flactric Eurosce/Modula: Blower Fan (MH/EF/MB)	FER = 0.044 × Q _{2/85} + 1 <u>01</u>
Mobile Home Non-Westberged Oi, Eurnage Ean (MH-NWO)	Reserved
Mobile Home Wostberized Gas Euroace Ean (MH-WG)**	Reserved
10 is the einforce in etc. at the maximum airflow-control setting measured using th	e final OOE test procedure at
1 UV CER part 430 subpart B, appendix AA.	

- (5) <u>Portable Air Conditioners</u>, See section 1605.3(d) of this Article for energy efficiency standards for portable ar conditioners.
- (6) There are no energy efficiency standards or energy design standards for spot air conditioners, evaporative coolers, whole house faus, or residential exhaust faus. There are no efficiency standards for ceiling fars.

[end of (d)]

...[skipping (e)]

(f) Water Heaters.

.[skipping (f)(1) through (f)(2)

(3) Water Heaters Regulated Under 10 C.F.R. section 431.110. Water heaters regulated under 10 C.F.R. section 431-110 must meet the values shown in Tables F-4 and F-5, as applicable.

...jskipping (D(3)(A)]

(B) Residential-Duty Commercial Water Heaters. Each residential-duty commercial water heater must have a minimum uniform energy factor not less than the values shown in Table F.5.

Product Class	Specifications *	Draw Pattern	Minimum Uniform Energy Factor ⁶
	> 75 kReuter and	Very Small	0.2674 - (0.0009 × V _i)
Gas-fired Storage	$\leq 105 \text{ kBlu and}$	Lew	0.5362 - (0.0012 × V)
Cashinot Gibrage	$i \leq 120$ callors	Medium	0.6002 - (0.0011 × V.)
	co ganona	High	0 6597 - (0 0009 × V/)
	> 105 kBtuike ouet	Very Small	0.2932 - (0.0015 × Vr)
Od-fired Storace	≤ 140 kBtu/hr and ≤ 140 gal	Low	0.5596 - (0.0018 × V ₁)
		Medium	0.6194 - (0.0016 × Va
		High	0.6740 - (0.0013 × V.)
	> #11 MAC	Very Small	0.80
Electric Instantaneous	< 58 6 MM and	Law	0.80
	≤ 2 gal	Medium	0.80
		High	0.80
*Acditionally, to be close	ifing of a social-mint of		

Table F-5 Standards for Residential-Outy Commercial Waler Heaters

*Accuronally, to be classified as a residential-duty commercial water heater, a commercial water heater must meet the following conditions:

(1) if the water heater requires electricity, it must use a single-phase external power supply, and
 (2) the water heater must not be designed to heat water to temperatures greater than 180°F.
 ⁶ Vi is the rateo storage volume (in gallons), as determined pursuant to 10 C₂F₁R, soction 429.44.

(4) Combination Space-Heating and Water-Reating Appliances. See section 1605.3(c) of this Article for standards for combination space-heating and water heating applaances.

(g) Pool Heaters; Portable Electric Spas; Residential Pool Pump and Motor Combinations, and Replacement Residential Pool Pump Motors; and Pumps, Dedicated-Purpose Pool Pumps, and Replacement Dedicated-Purpose Pool Pump Motors.

...[skipping (g)(1) through (g)(5)]

- (6) Energy Efficiency Standards for Pumps
 - (A) For the purposes of section 1605.Hg860(B) of this Article, "PIL," means the constant load pump energy index and "PEL," means the variable load pump energy index, both as determined in accordance with the test procedure in section 1604(gl(3)(A) of this Article, For the purposes of section 1605.Hg860(D) of this Article, "BEP" means the best efficiency point as determined in accordance with the test procedure in section 1604(g)(3)(A) of this Article.
 - (B) Pump Efficiency Standards. Each pump that is manufactured on or after January 27, 2020 and that:
 - is in one of the equipment classes listed in Table G-2 in section 1605.1(gR6)(B)4
 of this Article;
 - 2. meets the definition of a "clean water pump" in section 1602(g)(4) of this Article;
 - 3. is not listed in section 1605.1(g)(6)(L) of this Article; and
 - conforms to the characteristics listed in section 1605.1(g)(6)(D) of this Article must base a PEI₀ or PFI₀ rating of not more than 1.00 using the appropriate Cvalue in Table G-2;

Eauloasent class ¹	Maximum PEI ²	C-value ³
ESCC 1800 CL	1.00	12B 47
ESCC 3600 CL	1.00	130.42
ESCC 1800 VI	1.00	128.47
ESCC 3600 VI	1.00	130 42
ESEM 1800 (1		128.85
	— <u> </u>	130.09
	1.00	125 65
ESEM 2600.VL		130.99
	1 00	129.30
	100	133.84
10.5000.0L		129.30
		133.84
		129.63
	<u> </u>	133.20
RSV.3000.GL	· <u></u> · <u></u> · ·	129.63
RSV.1000 VL	100	133.20
		138.78
		134.85
ST.3600.CL	<u>1.00</u>	138.78
ST.1800 VL	<u> </u>	134.85
1 ST 13406360XLVL 1	1.00	

Table G-2 Standards for Pumps Manufactured On or After January 27, 2020

Equipment class designations consist of a combination (in sequential order separated by periods) of: (1) An equipment family (ESCC = end suction class-coupled ESFM \neq end suction frame mounted/own bearing, IL = in-line, RSV = radially split multi-stage, vertical, in-line diffuser casing, ST = submersible turbine: all as defined in 10 C F R, section 431.462), (2) nominal speed of rotation (1800 = 1800 rpm, 360i) = 3600 rpm); and (3) an operating mode (CL = constant load, VL = variable load). Determination of the operating mode is determined using the test procedure in appendix A to this subpart.

²For equipment classes ending in .CL, the relevant PEI is PEI.a. For equipment classes ending in .VL, the relevant PEI is PEI.a.

PThe C-values shown in this table must be used in the equation for PERS1D when calculating PEloc or PElvi , as described in section #.B of 10 C.F.R. Append x A to suppart Y of part 431.

... [skipping the rest of (g)]

...[skipping (h) through (i)]

()) Fluorescent Lamp Ballasts and Deep-Dimming Fluorescent Lamp Ballasts.

...(skipping (j)(1) through (j)(2)(D)]

EXCEPTIONS to Sections 1605.1(j)(1) and 1605.1(j)(2) of this Article. The power factor and ballast luminous efficiency standards described in sections 1605.1(j)(1) and 1605.1(j)(2) of this Article do not apply to:

...[skipping the rest of (j)]

(k) Lamps.

...[skipping (k)(1)]

(2) Incandescent Reflector Lamps.

(A) The average lamp efficacy of federally regulated incandescent reflector lamps with a rated lamp wattage between 40-205 watts, and manufactured on or after July 15, 2012, and sold before January 1, 2020, shall be not less than the applicable values shown in Table K-3.

EXCIPTION to Section 1605.1(k)(2)(A) of th<u>is Article</u>. The standards specified in Table K-3 shall not apply to the following types of Incandescent reflector lamps:

- (1) Lamps rated at 50 watts or less that are ER30, BR30, BR40, or ER40;
- (2) Lamps rated at 65 walls that are BR30, BR40, or ER40 latons; or
- (3) R20 incandescent reflector lamps rated 45 waits or less,

...[skipping Table K-3]

- (B) See sections 1605.1(k)(6) and 1805.3(k)(1)(B) of this Article for energy efficiency standards for incandescent reflector lamps that are general service lamps and sold on or after January 1, 2020.
- (3) Medlum Base Compact Fluorescent Lamps.

.[skipping (k)(3)(A)]

(B) See sections 1605.1(k)(6) and 1605.3(k)(1)(B) of this Article for energy efficiency standards for compact fluorescent lamps that are general service lamps and sold on or after January 1, 2020.

(4) General Service Incandescent Lamps and Modified Spectrum General Service Incandescent Lamps.

...[skipping (k)(4)(A)]

(B) See sections 1605.1(k)(6) and 1605.3(k)(1)(B) of this Article for energy efficiency standards for general service incandescent lamps that are general service lamps and sold on or after January 1, 2020.

(5) Candelabra Base Incandescent Lamps and Intermediate Base Incandescent Lamps.

...[skipping (k)(5)(A)]

- (B) See sections 1605.1(k)(6) and 1605.3(k)(1)(B) of this Article for energy efficiency standards for candelabra base meandescent lamps and intermediate base incandescent lamps that are general service lamps and sold on or after January 1, 2020.
- (6) General Service Lamps. General service lamps sold on or after January 1, 2020, shall have a minimum lamp efficacy of 43 lumens per wat).

(I) Emergency Lighting and Self-Contained Lighting Controls.

- (1) Emergency Lighting. An illuminated exit sign manufactured on or after January 1, 2006 shall have an input power demand of five watts or less per face.
- (2) Self-Comained-Lighting Controls.-See section 1605-36+ at this Article for energy design standards for self-contained lighting controls.

[end of (D]

...[skipping (m)]

(n) Luminaires and Torchieres.

...[skipping (n)(1)]

(2) Metal Halide Lamp Fixtures.

- (A) See section 1605.3(n) of this Article for energy efficiency standards and energy design standards for luminaires, including standards for metal balide luminaires sold or offered for sale in California that are manufactured on or after January 1, 2010.
- (B) Each metal halide lamp fixture, designed to be operated with lamps less than 150 W and greater than 300 W, manufactured on or alter February 10, 2017, must contain a metal halide ballast with an efficiency not less than the value determined from the appropriate equation shown in Table N-1.

...fskipping Table N-L

(C) Metal balide lomp fixtures manufactured on or after February 10, 2017, that operate lomps with rated wortage ~ 500 W to ≤ 1000 W most net contain a probe-start metalhalide ballast.

EXCEPTION to Sections 1605.1(n)(2)(B) and 1605.1(n)(2)(C) of this Article. The standards described in sections 1605.1(n)(2)(B) and 1605.1(n)(2)(C) of this Article do not apply to metal ballde Jamp fixtures:

- (i) with regulated-lag ballasts:
- (2) that use electrome ballasts that operate at 480 volts; and
- (3) that use high-frequency electronic ballasts.

[end of (n)]

...[skipping (o) through (r)]

(s) Electric Motors and Compressors.

...[skipping (5)(1)]

(2) NEMA Design A Motors, NEMA Design B Motors, and IEC Design N Motors. Starting on June 1, 2016, each NEMA Design A motor, NEMA Design B motor, and IEC Design N motor that is an electric motor meeting the criteria in section 1605.1(s)(1) of this Article and with a power rating from 1 horsepower through 500 horsepower, but excluding fire pump electric motors, manufactured (alone or as a component of another piece of equipment) shall have a nominal full-load efficiency of not less than the values shown in Table S-1;

...[skipping Table 5-1]

(3) NEMA Design C motors and IEC Design H motors. Starting on June 1, 2016, each NEMA Design C motor and EC Design H motor that is an electric motor meeting the criteria m section 1605.1(s)(1) of this Article and with a power rating from 1 horsepower through 200 horsepower manufactured (alone or as a component of another piece of equipment) shall have a nominal full-load efficiency that is not less than the values shown in Table S(2):

...[skipping Table S(2]

(4) Fire Pump Electric Motors. Starting on June 1, 2016, each fire pump electric motor meeting the criteria in section 1605.1(s)(1) of this Article and with a power rating of 1 horsepower through 500 horsepower, manufactured (alone or as a component of another piece of equipment) shall have a nominal full load efficiency that is not less than the values shown in Table 5-3.

... [skipping Table S-3]

EXCEPTIONS to Sections 1605.1(s)(2), 1605.1(s)(3), and 1605.1(s)(4) of this Article. The standards in Tables S-1, S-2 or S-3 of this Article do not apply to the following electric motors exempted by the Secretary, or any additional electric motors that the Secretary may exempt:

- (A) Air-over electric motors;
- (B) Component sets of an electric motor;
- (C) Equid-cooled electric mators;
- (D) Submersible electric motors; and
- (I) Inverter-only electric motors.

...[skipping the rest of (s)]

(t) Distribution Transformers.

...[skipping (t)(1)]

(2) Liquid-Immersed Distribution Transformers. The efficiency of a liquid ammersed distribution transformer manufactured on or after January 1, 2016 shall be no less than that required for their kVA tating as shown in Table T-1. Liquid-immersed distribution transformers with kVA ratings not appearing in Table T-4 shall have their minimum efficiency level determined by linear interpolation of the kVA and efficiency values immediately above and below that kVA rating.

5	ingle phase	Three phase				
kVa	Efficiency (%)*	kVa	Efficiency (%)*			
10	98,70	15	98 6 5			
15	98.82	30	98 83			
25	98.95	45	98.92			
37.5	99.05	75	99.03			
50	9911	112.5	99.11			
75	99.19	150	<u>99.16</u>			
100	99.25	225	<u>99 23 -</u>			
167	99.33	300	99 27			
250	99.39	500	99.35			
333	99.43	750	99.40			
500	99.49	1000	99.43			
667	99.52	1500	99.48			
833	99.55	2000	99.51			
·	2500 99 53					
Note: All efficiency values are at 50 percent of						
namoplate-rated load, determined according to the						
DOE Test Method for Measuring the Energy						
Consumption of Distribution Transformers under						
Appendix A to subpart K of 10 C.F.R. part 431.						

Table T-4 Standards for Liquid-Immersed Distribution Transformers

...(skipping the rest of (t))

...[skipping (u) through (w)]

(x) Landscape Irrigation Equipment.

See section 1605-300 of this <u>Article</u> for water efficiency standards for landscape irrigation equipment.

... [skipping the rest of section 1605.1]

Note: Authority cited: Sections 25213, 25218(e), 25401.9, 25402(a)-25402(c) and 25960, Public Resources Code: and Sections 16, 26, and 30, Governor's Exec. Order No. B-29-15 (April J. 2015). Reference: Sections 25216.5(d), 25401.6, 25402(a)-25402(c) and 25960, Public Resources Code: and Section 16, Governor's Exec. Order No. B-29-15 (April 1, 2015).

§ 1605.2. State Standards for Federally Regulated Appliances.

(a) Refrigerators, Refrigerator-Freezers and Freezers.

- Federally Regulated Refrigerators, Refrigerator-Freezers, Freezers, and Other Refrigeration Equipment. See section 1605.1(a) of this Article for energy efficiency standards and energy design standards for: (A) consumer refrigeration products including
 - miscellaneous refrigeration, including but not hmited to coolers manufactured on or after October 28, 2019;

- (B) commercial refrigerators, commercial freezers, commercial refrigerator-freezers including hybrid commercial refrigerator-freezers; automatic commercial ice makers; walk in coolers and walk-in freezers; and refrigerated canned and bottled beverage vending machines.
- (2) Coolers <u>Manufactured Before October 28, 2019</u>, Freezers, and Water Dispensers. See section 1605.3(a) of this Article for energy efficiency standards and energy design standards for:
 - (A) consumer refrigeration coolers manufactured before October 28, 2019; and
 - (B) Incoders that exceed 30 ft ', do not exceed 30 ft', and that are common products; and

(B)↔ water dispensers.

end of (a)]

...(skipping (b) through (c)]

(d) Portable Air Conditioners, Evaporative Coolers, Cailing Fans, Cailing Fan Light Kits, Whole House Fans, Residential Exhaust Fans, Dehumidifiers, and Residential Furnace Fans.

- Ceiling Fans, Ceiling Fan Light Kits, Dehnmidifiers, and Residential Fornace Fans.
 (A) See section 1605.1(d) of this Article for gnergy efficiency and energy design standards for ceiling fans and ceiling fan light kits.
 - (B) See section 1605.1(d) of this Article for energy efficiency standards for eeiling fan light kits, dehumitufiers; and residential furnace fans.
- (2) Portable Air Conditioners. See section 1605.3(d) of this Article for energy efficiency standards for portable air conditioners.
- (3) There are no energy efficiency standards or energy design standards for spot air conditioners, evaporative coolers, whole house fans, or residential exhaust fans. There are no energy efficiency standards for ceiling fans.

end of (d)

...[skipping (e) through (f)]

(g) Pool Heaters; Portable Electric Spas; Residential Pool Pump and Motor Combinations, and Replacement Residential Pool Pump Motors; and Pumps, Dedicated-Purpose Pool Pumps, and Replacement Dedicated-Purpose Pool Pump Motors.

\dots [skipping (g)(1) through (g)(2)]

(3) Pumps. See section 1605.1(g)(6) of this Article for energy efficiency standards for federally regulated pumps that are manufactured on or after January 27, 2020.

[end of (g)]

...[skipping (h) through (k)]

:

(I) Emergency Lighting and Self-Contained Lighting Controls.

(1) Illuminated Exit Signs. See section 1603.1(1) of this Article for energy efficiency standards for illuminated exit signs.

(2) Self Contained Lighting Controls. See section 1605.3(1) of this Article for design mandards for self-contained lighting controls.

jend of (0)

...]skipping (m) through (w)]

(x) Landscape Irrigation Equipment.

See section 1605.3(x) of this Article for water efficiency standards for landscape irrigation equipment.

Note: Authority cited: Sections 25213, 25218(e), 25301.9, 25402(o)-25402(c), and 25960, Public Resources Code; and sections 16, 26, and 30, Governor's Exec. Order No. B 294154April 1, 20156. Reference: Sections 25210.5(d), 25401.9, 25402(o)-25402(c), and 25060, Public Resources Code; and section 16, Governor's Exec. Order No. B-29415 (April 1, 2015).

§ 1605.3. State Standards for Non-Federally Regulated Appliances.

...[skipping (a) through (b)]

(c) Central Air Conditioners, Air Filters, and Heat Pump Water-Heating Packages.

...(skipping (c)(1))

- (2) Energy Efficiency Standards for Computer Room Air Conditioners. The EER of evaporatively cooled computer room air conditioners manufactured on or after the effective dates shown October 29, 2006, shall be not less than the applicable values shown in Table C-11.
 - (A) Computer Room Air Conditioners. See section 1605.1(c) of this Article for energy efficiency standards for air-cooled computer room air continioners, glycol-cooled computer room air conditioners, and water-cooled computer room air conditioners.

Table C-11 Standards for Evaporatively Cooleo Com	pute	r Ro	om Air (ondition	215
· · · · · · · · · · · · · · · · · · ·				1014 1	.

Appliance	Cooling Capacity (Btu/hr)	Minimum EER (Btu/watt-hour) Evaporatively Cooled Effective October 29, 2006
Compoler room air	< 65,000 ≥ 65,000 and < 135,000 > 135,000 and < 240,000	<u> </u>

...[skipping the rest of (c)]

(d) Portable Air Conditioners, Evaporative Coolers, Ceiling Fans, Ceiling Fan Light Kits, Whole House Fans, Residential Exhaust Fans, Dehumidifiers, and Residential Furnace Fans.

.[skipping (d)(1)]

- (2) <u>Dehumidiflers and Residential Furnac</u>e Fans. See section 1605.1(d) of this Article for energy efficiency standards for eciling fan light kits, dehumdliters; and residential furnace fans.
- (3) <u>Ceiling Fans and Celling Fan Light Kits</u>. See section 1605.1(d) of this Article for <u>energy</u> <u>efficiency</u> and energy design standards for ceiling fans and ceiling fan light kits
- (4) There are no energy efficiency standards or energy design standards for spot air conditioners, evaporative coolers, whole house fans, or residential exhaust fans. There are no efficiency standards for ceiling faus.

[end of (d)]

...[skipping (e) through (g)]

(h) Plumbing Fittings.

...[skipping (h)(1) through (h)(2)]

- (3) Kitchen Faucets and Aerators and Public Lavatory Faucets and Aerators. The flow rate of kitchen faucets, kitchen replacement aerators, public lavatory faucets, and public lavatory replacement aerators sold or offered for sale on or after January 1, 2016 shall be not greater than the applicable values shown in Table II-4.
 - (A) For the plumbing fittings identified in Table II 4, noncompliant products may not be sold or offered for sale on or offer January 1, 2016, regardless of manufacture date.

Table H-4 Standards for Kitchen Faucets and Aerators and Public Lavatory Faucets and Aerators

Appliance	Maximum Flow Rate
Kitchen faucets and serators	1.8 gpm with optional temporary flow of 2.2 gpm at 60 psi
Public lavatory faucets and acrators	0.5 gpm at 60psi

...[skipping (h)(4)]

(5) Showerheads. The flow rate of showerheads shall be not greater than the applicable values shown in Table II-5.

Table H-5			
Standards for Showerheads			

Appliance	Maximum Flow Rate			
	Manufactured on or after July 1, 201 <u>6 and prior</u> to J <u>uty 1, 2018</u>	Manufactured on or after July 1, 2018		
Showerheads	2.0 gpm at 80 psi ^{1,2,3}	1.8 gpm at 80 psi ^{1.20}		

i

Maximum flow rate. The maximum flow rate shall be the highest value obtained through testing at a flowing pressure of 80 ± 1 psi and shall not exceed the maximum flow rate in Table H-4H-5

² Minimum flow rate. The minimum flow rate, determined through testing at a flowing pressure of 20 ± 1 psr, shall be not less than 60 percent of the flow rate reported by the manufacturer pursuant to section 1606(a) of this Article. The minimum flow rate determined through testing at a flowing pressure of 45 and 80 ± 1 psi shall be not less than 75 percent of the flow rate reported by the manufacturer pursuant to section 1606(a) of this Article. " Showerheads with multiple nozzles. The total flow rate of showerheads with multiple nozzles must be less than or equal to the maximum flow rate in Table H-5 when any or all the nozzles are in use at the same time.

...[skipping the rest of (h)]

...[skipping (i) through (j)]

(k) Lamps.

General Service Lamps.

(A) General service lamps manufactured on or after January 1, 2018, and sold before January 1, 2020, shall meet the standards shown in Table K-8.

Table K-8: Standards for General Service Lamps

Lumen Ranges	Minimum Lamp Efficacy	Minimum Rated Lifetime	Effective Date
310-2 600	45 jumens per watt	1,000 Hours	Manufactured on or after January 1, 2018, and sold before January 1, 2020

(B) General service lamps sold on or aiter January 1, 2020, shall have a minimum lamp efficacy of 45 lumens per watt.

(2) State-Regulated LED Lamps.

- (A) State-regulated LED lamps with lumen output of 150 lumens or greater for £12 bases, or 200 lumens or greater for E17, E26, and GU24 bases, and monufactured on or after January 1, 2018, shall meet all of the standards shown in Table K-9 and shall have the following:
 - 1. A color point that meets the requirements in Table B1 of Amex B of ANSI C78.377-2015 for color targets and color consistency.
 - 2. A CRI (Ral of 82 or greater,
 - 3. Individual color scores of R1, R2, R3, R4, R5, R6, R7, and R8 of 72 or greater.
 - A power factor of 0.7 or greater.
 - 5. A rated life of 10,000 hours or greater as determined by the humen maintenance and time to failure test procedure. "time to failure" nortion of the test procedure
 - specified in section 1604(k)(3) of this Article. 6. State regulated LED tamps that have an ANSI standard lamp shape of A shall meet the annuclirectional light distribution requirements of INERGY STAR's Product Specification for Lamps Version 2.0 (December 2015).
 - 7. State-regulated LED lamps that have an ANSI standard lamp shape of B, BA, C, CA, I, or G shall meet the decorative light distribution requirements of ENERGY STAR's Product Specification for Lamps Version 1.1 (August 2014).

(B) In addition to the requirements in section 1605.3(k)(2)(A) of this Article, state-regulated LED lamps manufactured on or after July 1, 2019 shall have a standby mode power of 0.2 watt or less.

Effective Date	Minimum Compliance Score	Minimum Efficacy Luctors Per Wett
January 1, 2018	282	CO
July 1, 2019	297	·
The compliance so	ore shall be calculated as the sum of	ou I the officiou and 2.2 firms the OD4 of a
	and any an emerged the sould f	A the endercy and 2.3 times the CRI of a lamp.

Table K-9 Standards for State-Regulated LED Lamps

- (3) State-regulated Small Diameter Directional Lamps. State-regulated small diameter directional lamps manufactured on or after fanuary 1, 2018 must have a rated life of 25,000 hours or greater as determined by the lumen maintenance and time to failure test procedure specified in section 1604(k)(3) of this Article and meet one of the following requirements:
 - (A) have huminous efficacy of at least 80 lumens per watt.
 - (B) have a minimum luminous efficacy of 70 lumens per watt or greater and a minimum compliance score of 165 or greater, where compliance is calculated as the sum of the luminous efficacy and CRI.
- (4) GD24 Base tamps. GD24 base lamps shall not be incandescent lamps.
- (5) See section 1605.1(k) of this Article for energy efficiency standards for federally regulated Jamps.

(I) Emergency Lighting and Self-Contained Lighting Controls.

- (2) Illuminated Exit Signs. Sec section 1605.1(l) of this Article for energy efficiency standards for illuminated exit signs.
- (2) -Self-Contained Lighting Controls Manufactured On or After February 1, 2013. (A) All Self-Contained Lighting Controls.
 - The manufactorer shall provide instructions for installation and start up calibration of all self-contained lighting control devices.
 - 2: It indicator lights are integral to a self-contained lighting control system, such indicator lights shall consume no more than 1 watt of power per indicator light.
 - (B)-Automatic Time Switch Controls.
 - Residential automatic time-switch controls labeled for use with lighting shall have program backup capabilities that prevent the loss of the device's schedule for at least 7 days, and the device's date and time for at least 72 hours if power is interrupted.
 - 2 Commercial automatic fine-switch controls labeled for use with lighting shaft: a. have program backup capabilities that prevent the loss of the device's schedule for at least 7-days, and the device's date and time for at least 72 hours if power 19 interrupted;
 - b. be capable of providing manual override to each connected load and shall resume normally scheduled operation after manual override is initiated within 2 hours for each connected load; and
 - c. incorporate an automatic holiday shutoff feature that turns off all connected loads for at least 24 hours and then resumes normally scheduled operation.

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(C)-Astronomical Time-Switch Controls, Astronomical time-switch controls shall:

- 1: -ment the requirements of an automatic time-switch control;
- 2: have sumrise and sunset prediction accuracy within phils or minus 15 minutes and thackcoping neuroscy within 5 minutes per year;

- 3.—be capable of displaying date, current time, suntise time, sunser time, and switching times for each step during programming;
- 4. have an automatic daylight savings the adjustment; and
- 5:-baye the ability in independently offset the on and oil for each channel by at least 99 minutes before and after sumise or supset.
- (B)-Automatic Daylight Controls: Automatic daylight controls shall:
 - he capable of reducing the power consumption in response to measured daylight etcher directly or by sending and receiving signals;

 - -automatically return to its most recent time delay settings within 60 mmutes when put m calibration moster.
 - 4.— have a set point control that easily distinguishes settings to within 10 percent of full source adjustment;
 - The have a light senser that has a linear response within 5 percent accuracy over the range of illuminance measured by the light senser;
 - 6. have a light sensor that is physically separated from where the colibration adjustments are made, or is rapable of being calibrated in a manner that the person initiating the calibration is remote from the sensor during calibration to world influenceng calibration accuracy; and
 - 7:-comply with section 1665.3(132gL) of this Article of the device contains a photocontrol-component:

(II)-Photo-Controls.

Photo controls shall not have a mechanical drvice that permits disabling of the control.

(F)-Dimmer Controis:

- 1. All channer controls shall:
 - a. be capable of reducing power consumption by a minimum of 65 percent when the dimmer is at its lowest level;
 - b. include an off position which produces a zero lumen mitput; and
 - c. not consume more than 1 watt per lighting dimmer switch leg when in the off-position.
- 2.—Dummer controls that can directly control lamps shall provide electrical outputs to tamps for reduced flicker operation through the dumming range so that the light-output hust an couplitude modulation of less than 30 percent for frequencies bes than 2004f2 without causing premature has failure.
- 5:—Wali how dimmers and associated switches designed for use in three way circuits whall be capable of turning lights off, and to the level set by the dimmer if the lights are off.

(G)-Occupant sensing devices.

- t-Alt occupant sensing devices shail:
 - a -be capable of suformatically torrang off controlled lights in the area no more than 30 minutes after the area has been sacared;
 - b.—allow all lights to be manually torned off regardless of the status of occupancy; and
 - e-have a visible status signal that indicates that the device is operating properly, or that it has failed or mattemettoned. The visible status signal may have an override switch that turns off the signal.
 - All needpant sensing drivices that utilize ultrasome radiation for detretion of needpants shall:
 - a.- comply with 21 C.I.R. part 1002.12; and
 - b. conit no audible sound, and shall not emit phrasenuid in excess of the decibel
 - levels shown in Table 1, mensured no more than five feet from the source, on

Tablo-L

Mki-frequency of Sound Pressure Third-Ostave Band fin kHz)	Maximum db Levol within third Octave Band (In dB reference 20 micropaccels)
<u>1-066 L100-20</u>	80
20 of more to less than 25	405
25 or more to less than 31.5	110
31.5 or more	<u></u>

Ultrasound Maximum Decibel Values

3. All occupant sensing devices that utilize microwave radiation for detection of occupants shall:

B. comply with 47 C.F.R. parts 2 and 15; and

- b. not cant radiation in excess of 1 milliwatt per square contineter measured at no more than 5 contineeters from the emission statage of the device.
- Occupant wrising devices incorporating dimming shall comply with the requirements for dimmer controls in section 1605.30(2)(F) of this Article.
- Motion sensors shall be rated for outdoor use as specified by the National Electrical Code 2002, Section 410-4(A).
- 6. "Partial off" shall have dimming functionality or shall incorporate the following functionalities:
 - e-have two poles;
 - b.-how one pole that is monushor, and manual off; and
 - c.—bave one pole that is automatic on and automatic off and shall not be capable of conversion by the user to manual on only functionality:
- "Portial on"-shull-have dimming functionality or shall incorporate the following functionalities:
 - a. have two potes each with automatic off functionality:
 - b.—have one pole that is manual on and shall not incorporate Dir switches, or other manual means, for conversion between manual and automatic functionality; and
 - e.—have one pole that is automatic-on and shall not be capable of conversion by the user to manual-on functionality.
- 8. Vacaney sensors shall:
 - n not turn on lighting automatically and shall not incorporate DIP switches, or other manual means, for conversion between manual and automatic functionality;
 - h have a grace period of no more than 30 seconds and no less than 15 seconds to turn on lighting subomatically after the sensor has timed out; and
 - m- not have an override switch that disables the sensor.

[end of (I)]

.. [skipping (m)]

(n) Luminaires and Torchieres.

. [skipping (n)(1) through (n)(2)]

(3) Portable Luminaires.

(A) Portable luminaires manufactured on or after January 1, 2010 shall meet one or more of the following requirements:

 Be equipped with a dedicated fluorescent lamp socket connected to a high frequency electronic ballast contained within the partiable luminaire;

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- Be equipped with one or more GU24 line-voltage sockets and not rated for use with incandescent lamps of any type, including line voltage or low voltage;
 Be an LED luminaire or a portable lummaire with an LED light engine with integral heat sink, and comply with the minimum requirements shown in Table 2010. N-34

Table N-3
Minimum Requirements for Portable LED Luminaires.
and Portable Luminalres with LED Light Engines with Integral Heat Sink

Criteria	Requirement
Light Output	≥200-lumens (initial)
Minimum LED Light Engine Efficacy	29 /umens/W
Correlated Color Temperature (CCT)	2700K through 5000K
Minimum Color Rendering Index (CRI)	75
 Construction (continuing area rapping or spin for residential use) 	≥070

- 4. Be equipped with an E12, E17, or E26 strew-based socket and be prepackaged and sold together with one screw-based compact fluozescent lamp or screwbased LED lamp for each screw-based socket on the portable luminaire. The compact fluorescent or LED lamps which are prepackaged with the portable function fully compatible with the luminaire controls, meaning that portable huminaires having a dimmer control shall be prepackaged with dimmable compact fluorescent or LED lamps, and portable luminaires having 3way controls shall be prepackaged with 3-way compact fluorescent or LED lamps. The compact fluorescent lamps which are prepackaged with the luminaires shall also meet the minimum energy efficiency levels established by ENERGY STAR* for compact fluorescent lamps in effect on December 31, 2008. The LED lamps required to be packaged with the huminaire shall comply with the minimum requirements for state-regulated LED lamps in sections 1601 through 1607 of this Article;
- Be equipped with one or more single-ended, non-screw based halogen tamp sockets (line or low voltage), a dimmer control or high low control, and be rated for a maximum of 100W.

EXCEPTIONS to Section 1605.3(n)(3) of this Article. The following portable luminaires are not required to be prepackaged and sold together with compact fluorescent or LED lamps:

- Portable Wall Mount Adjustable Enminaires that meet all of the following requirements: Designed only to be mounted on a wall, having no base which will allow the boundare to stand on a horizontal surface, having an articulated arm, having a maximum overall length of 24 mehes in any direction, fitted only with a single E12, U17 or E26 lamp socket per luminaire, and controlled with an integral dimmer. Luminaires monutartured on or before December 31, 2011 shall have a maximum relamping rated wattage of 57 watts, and luminaires manufactured on or after January 1, 2012 shall have a maximum relamping rated wattage of 43 watts, as listed on a permanent pre-printed factory-installed tabel in accordance with Underwriters Laboratories (U1) 153.
- 2. Art Work Luminates that meet all of the following requirements: Designed only to be mounted directly to art work only for the purpose of illuminating that art work, fitted only with E12 screw-base line voltage sockets, having no more than three sockets per luminaire, and controlled with an integral high/low switch. Luminaires with a single socket shall have a maximum relamping rated wattage of 25 watts, and luminalizes with two or three sockets shall have a maximum relamping rated wattage of 15 watts per socket, as listed on a permanent pre-printed factory-installed label in accordance with Underwriters Laboratories (01.) 153.

(B) Portable luminaires that have internal power supplies shall have zero standby power when the luminaire is turned off.

...[skipping the rest of (n)]

...[skipping (o) through (t)]

(u) External Power Supplies.

(1) The efficiency in the artise mode of state-regulated external power supplies, manufactured on or after the effective dates shown [a]y 1, 2005, when tested at 115 volts at 60 Hz, shall be not less than the applicable values shown (espressed as the decimal equivalent of a percentage); and the energy consumption in the no-load mode of power supplies manufactured on or after the effective dates when tested at 115 volts at 60 Hz, shown shall be not greater than the applicable values shown in Table U-4 015 walls.

Table U-4 Standards for State-Regulated External Power Supplies Effective July 1, 2008

Contract Contract	Minimum Efficiency In Active Mode
Nameplate Output	0.5 Nomeniate Output
<u><1 watt</u>	a cost enternestate Output) + 0.5
≥ 1 and ≤ 51 watts	
> 54 watts	
· · · · · · · · · · · · · · · · · · ·	Maximum Energy Consumption in No-Load Worke
Any custout	0.5 watts
Hany Gotpor	Natural Loganithm of the nameplate output expressed in waits.
A Milleté FL (Namébiate Ottibul) -	- Hotorer Folder

(2) See section 1605,100 of this Article for energy efficiency standards for federally regulated external power supplies

(v) Computers, Computer Monitors, Televisions, Signage Displays, and Consumer Audio and Video Equipment

...[skipping (v)(1)]

- (2) Televisions and Signage Displays. All televisions and signage displays manufactured on or after the effective dates shall meet the requirements shown in Table V-3.
- (3) Televisions and Signage Displays Manufactured On or After January 1, 2011. In addition, televisions and signage displays manufactured on or after January 1, 2014 shall meet the requirements shown in sections 1605.3(v)(3)(A), 1605.3(v)(3)(B), and 1605.3(v)(3)(C) of this Article.

...(skipping the rest of (v)(3)]

EXCEPTIONS to Sections 1605.3(v)(2) and 1605.3(v)(3) of this Article: The standards found in sections 1605.3(v)(2) and 1605.3(v)(2) and 1605.3(v)(2) of this Article do not apply to professional signage displays.

 Computer monitors, Computer monitors manufactured on or after July 1, 2019, shall comply with all of the following: (A) The computer monitor on-mode power draw shall be less than or equal to the following equation with each of the applicable allowances applied at most once:

 $E_{cr} \geq (E_{cr,mr} + E_{cr} + E_{corr} + E_{berr} + E_{corr} + E_{corr})$

Where:

E_a is the computer monitor on-mode power draw in watts as determined under section 160-4(v)(3) of this Article,

 E_{max} is the maximum on-mode power draw in watts as determined by Table V-4. E₀ is the enhanced performance display allowance in watts as determined in Table V-5.

 E_{exc} is the gaming monitor allowance in watts as determined in Table V-5, E_{exc} is the OLED monitor allowance in watts as determined in Table V-5, and E_{exc} is the curved monitor allowance in watts as determined in Table V-5.

- (B) Consume less than or equal to 1.2 waits in computer monitor sleep mode and computer monitor off mode power combined.
- (C) Be shipped with a screen luminance less than or equal to <u>270 cd/m</u>_268+cd/m⁺ ± 35 percent. A manufacturer may ship with additional features enabled, even if they were turned off in testing.
- (D) Computer monitors with touch screen capability are allowed an additional 1 wattallowance per mode in modes where touch functionality is enabled.

...Iskipping Table V-4 through Table V-5]

EXCEPTIONS to Section 1603.3(v)(4) of this Article: The following computer monitors are not required to comply with section 1605.3(v)(4) of this Article but shall comply with the test procedures in section 1604(v)(3) of this Article, the certification requirements in section 1606 of this Article, and the marking requirements in section 1607 of this Article:

- KVMs.
- KMM5.
- 3. Very high performance monitors.

EXCEPTION to Section 1605.3(v)(4) of this Article: Medical computer manitors are not required to comply with section 1605.3(v)(4) of this Article or the test procedures in section 1604(v)(3) of this Article but shall comply with the certification requirements in section 1606 of this Article and the marking requirements in section 1607 of this Article.

- (5) Desktop computers, thin clients, mobile gaming systems, portable all-in-ones, and notebook computers. Desktop computers, thin clients, mobile gaming systems, portable all-in-ones, and notebook computers manufactured on or after January 1, 2019, shall;
 (A) Comply with Table V-7; and
 - (B) Be shipped with power management settings that do both of the following:
 - Transition the computer into eather the computer sleep mode or computer offmode measured in section 1604(v)(4) of this Article within 30 minutes of user inactivity. If the transition is to a computer sleep mode, that sleep mode shall either;
 - a. Be a computer sleep mode as described in ACPI as \$3; or
 - b. Consume power less than or equal to the values shown in Table V 6.
 - Transition connected displays into sleep mode within 15 mmutes of user inactivity.

EXCEPTION to Section 1605.3(v)(5)(B) of this Article. If the model is shipped at the purchaser's request with either a limited capability operating system or without an operating

system, or it the model is not capable of having an operating system, the model is not required to comply with section 1605.3(v)(58B) of this Article.

EXCEPTION to Section 1605.3(v)(5)(A) of this Article. Desktop computers and thin clients assembled before July 1, 2021, entirely from parts manufactured before September 1, 2018, are not required to comply with section 1605.3(v)(5)(A) of this Article.

...[skipping Table V-6 through Table V-8]

- (6) Small-scale servers, high expandability computers, mobile workstations, and workstations. Small-scale servers, high expandability computers, mobile workstations, and workstations manufactured on or after January 1, 2018, shall:
 - (A) Be powered by an internal power supply that meets or exceeds the standards in Table V-9, or an external power supply that meets the level VI of efficiency described in the International Efficiency Marking Protocol for External Power Supplies Version 3.0 (Sept. 2013);
 - (B) Incorporate Energy Efficient Ethernet functionality;
 - (C) Transition connected displays into sleep mode within 15 minutes of user inactivity; and
 - (D) Transition the computer into either the computer steep mode or computer off mode measured in section 1604(v)(4) of this Arnele within 30 minutes of user inactivity. If the transition is to a computer sleep mode, that sleep mode shall either:
 - Be a computer sleep mode as described in ACPI as \$3; or
 - Consume power less than or equal to the values shown in Table V-6.

EXCEPTION to Section 1605.3(v)(6)(D) of this Article: Small scale servers and rack mounted workstations are not required to comply with section 1605.3(v)(6)(D) of this Article.

..[skipping Table V-9]

- (7) Small volume manufacturers.
 - (A) Computers manufactured on or after January 1, 2019, by a small volume manufacturer shall:
 - 1. Comply with the power management settings identified in sections 1505.3(v)(508)2, and 1005.3(v)(69(C) of this Article-
 - 2. Be shipped with power management settings that transition the computer into either computer sleep mode or computer off mode within 30 minutes of user inactivity; and
 - 3. Be excupt from all other requirements for computers unless the small volume manufacturer meets the criteria in section 1605.3(v)(7)(C) of this Article.
 - (B) Small scale servers and tack mounted workstations are not required to comply with section 1605.3(v)(7)(A)2. of this Article.
 - (C) If a small volume manufacturer produces desktop or workstation computers in quantities of more than 50 units of a basic model, the monufacturer shall certify those units as meeting the requirements in sections 1603, 1604(v84), 1605.3(v)(5) or 1605.3(v)(6), 1606, and 1607 of this Arricle.

(w) Battery Chargers and Battery Charger Systems.

(1) Energy Efficiency Standards for Jarge Battery Charger Systems. Large battery charger systems manufactured on or after January 1, 2014, and that are not federally regulated battery chargers, shall most the applicable performance values in Table W-2.

Performance Parameter Charge Return Factor 100 percent, 80 percent (CRF) Depth of discharge		Standard	
		CRF <u>Shail be</u> s 1.10	
 	40 percent Depth of discharge	GRF. <u>Shal' 5e</u> s 1 15	
Power Conversion Efficiency		Great er than er eq ual t o. <u>Shall be</u> ≥ 89 percent	
Power Factor Maintenance Mode Power (Es = battery capacity of lested battery)		Greater than or equal to: Shall be ≥ 0.90	
		Less than or equal to, Shall be $\leq 10 \pm 0.0012 E_0 W$	
No Battery Mode Power		Less than o r equal to: <u>Sha</u>ti <u>be</u> <u>s</u> 10 W	

Table W-2 Standards for Large Battery Charger Systems

- (2) Energy Efficiency Standards for Small Battery Charger Systems. Except as provided in sections 1605.3(w)(3), 1605.3(w)(4), and 1605.3(w)(5) of this Article, the following small battery charget systems shall meet the applicable performance values in Table <u>W-2W-3</u>: (A) consumer traducts that are menufactured as as 26 m Network Science (A).
 - (A) consumer products that are manufactured on or after February 1, 2013 and before fune 13, 2018; and (0)
 - (B) (hose that are not consumer products and are manufactured on or after January 1, 2017.

...[skipping "EXCEPTION to Section 1605.3(w)(2)"]

Performance Paramoter	Standard
Maximum 24 hour charge and maintenance energy (Wh)	For E⊱of 2.5 Wh or less: 16 × N
Rumber of charger ports)	For E⊱greater than 2.5 Wh and less than or equal to 100 Wh: 12 x N +1.6E⊾
	For E _b greater than 100 Wh and less than or equal to 1000 Wh: 22 x NrC SE _b
	For E ₂ greator than 2000 Wh: 36.4 x N + 2.486E ₀
Maintenance Mode Power and No Battery Mode Power (W)	The sum of maintenance mode power and no battery mude power must be less than or equal
(Et = capacity of all batteries in ports and N = number of charger ports)	te: 1× N+0.0021xE ₆ Watis

Table W-3 Standards for Small Battery Charger Systems

(3) Inductive Charger Systems. Inductive charger systems manufactured on or after February 1, 2013 and before June 13, 2018 and inductive charger systems that are not federally regulated battery chargers and manufactured on or after February 1, 2013, shall meet either the applicable performance standards in Table W-2<u>W</u>-3 or shall use less than 1 watt in maintenance mode, less than 1 watt in no battery mode, and an average of 1 watt or less over the duration of the charge and maintenance mode test.

.[skipping the rest of (w)]

(x) Landscape Infigation Equipment.

(1) Spray Sprinkler Bodies.

(A) A spray sprinkler body manufactured on or after October 1, 2020, shall meet all of the following requirements:

1. Maximum flow rate at any tested pressure level. The percent difference between the initial calibration flow rate, as determined by the test method in section 1604(xED(A)) of this Article, and the maximum flow rate at any tested pressure level, averaged for the selected samples at the test pressure levels where the maximum flow rate occurred, shall not exceed \pm 12.0 percent.

... [skipping the rest of (x)(1)(A)1.]

 Average flow rate across all tested pressures. The percent difference between the initial calibration flow rate, as determined by the test method in section 1604(x)(1)(A) of this Article, and the flow rate at each tested pressure level, averaged across all pressure levels and all selected samples, shall not exceed ± 100) percent.

...[skipping the rest of (x)(1)(A)2.]

 Minimum outlet pressure. The average outlet pressure at the initial calibration point, as determined by the test method in section 1604(y)(1)(A) of th<u>is Article</u>, of the selected samples shall not be less than two-thirds of the regulation pressure.

.[skipping the rest of (x)]

[skipping the rest of section 1605.3]

Note: Authority cited: Sections 25213, 25218(e), 25304.9, 25402(a)-25402(c) and 25900, Public Resources Code; and Sections 16, 26, and 30, Governor's Exec. Order No. B 29-15 (April 1, 2015). Reference: Sections 25216.5(d), 25401.0, 25402(a)-25402(c) and 25960, Public Resources Code; and Section 16, Governor's Exec. Order No. B-29-15 (April 1, 2015).

§ 1606. Filing by Manufacturers; Listing of Appliances in the MAEDbS.

(a) Filing of Statements.

Each manufacturer shall electronically file with the Executive Director (brough the MAFDbS a statement for each apphance that is sold or offered for sale in California. The statement shall contain all of the information described in paragraphs (2) through (4) of this subsection and shall meet all of the requirements of paragraph (1) of this subsection and all other applicable requirements in this Artlele.

The effective dates of this section shall be the same as the effective dates shown in section 1605.1, 1605.2 or 1605.3 of this Article for appliances for which there is an energy efficiency, energy consumption, energy design, water efficiency, water consumption, or water design standard in section 1605.1, 1605.2, or 1605.3 of this Article. For appliances with no energy efficiency, energy consumption, energy design, water efficiency, water efficiency, water consumption, or water design standard in section 1605.1, 1605.2, or 1605.3 of this Article, the appliances with no energy efficiency, energy consumption, energy design, water efficiency, water consumption, or water design standard in section 1605.1, 1605.2, or 1605.3 of this Article, and the application of the section 1605.4 or 1605.

the effective date of this section shall be one year after they are added to section 1601 of this Article, unless a different effective date is specified.

EXCEPTIONS to Section 1606(a) of this Article: Section 1606(a) of this Article is not applicable to:

- external power supplies,
- small electric motors,
- à la carte chargers meeting the EXCEPTION noted in section 1605.3(w)(2) of this Article, or
- general service lamps.

...[skipping (a)(1) through (a)(2)]

(3) Testing and Performance Information.

(A) A statement that the appliance has been tested in accordance with all applicable requirements of sections 1603 and 1604 of this Article. It section 1604 of this Article provides more than one test method that may be used, the manufacturer shall identify which method was used.

EXCEPTION +: to Section 1606(a)(3)(A) of this Article:

For state-regulated compressors, the manufacturer shall submit a statement that the appliance has been tested in accordance with all applicable requirements of sections 1603 and 1604 of this Article, or that the appliance has been rated according to an alternative efficiency determination method (AEDM) in accordance with all applicable requirements of section 1604(s) of this Article.

...[skipping the rest of (a)(3)]

Appliance	Required Information	Permissible Answers
All Appliances	Manufacturer's Name Brand Name Model Namber Date model to be displayed	
	Regulatory Status	Pederally regulated consumer product, federally regulated commercial and industrial equipment non-fuderally regulated

Table X Data Submittal Regulrements

...[sklpping A "Non-Commercial Refrigerators, Non-Commercial Refrigerator-Freezers, Non-Commercial Freezers" through A "Walk-in Coolers, and Walk-in Freezers: Refrigeration Systems"]

Jable A Colitingen - Data offernan resperie			
	Appliance	Required Information	Perittissible Answers
	Refrigerated Buttled or	Equipment Class (reporting of Combination A or Combination B for models manufactured on priviller January 8, 2019)	Class A, Class B, Combination A, Combination B
	Canned Boverage	The Type	Glass frant, closed front
	Vending Macrones	Machine use designation	Indoor, indoor/outdoor
		Maximum Dally Energy Consumption at	·
	I	75°F Ambient Temperature	
		Standard Vendible Capacity	
		Low Power State - lighting	True, #False
	i de la companya de la	Linw Power State - refrigeration	True, @alse
		Low Power State - whole machine	Truc. (Palse
		On-Site Adjustable by Operator or Owner	[•] True, (False
		Bubbbaset Tupe	Ozone-depleting, non-ozone-
		Reingerant Type	depleting
		Inculation Two	Ozone-depleting, nan-ozone-
			i depicting
		Internal volume	
	······································	Product Class	: <u>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 1</u> 1, <u>12</u>
	¹ Misceliane <u>ous</u>	Var able Defrost Control	True, False
	Refrigeration Products	Least I me Between Defrosts (hours) (when	i
		Variable Defrost Control = True)	
		Max Time Butween Defrosts (hours) (which	
		"Variable Defrost Control" = True	<u> </u>
	1	Variable Anti-Sweat Heater Control	l <u>True False</u>
	1	Heater Watts at 5%, 15%, 25%, 35%, 45%	
		55% 65%, 75%, 85%, and 95% humidity	
		(watts) (when 'Variable Anti-Sweat Heater	
		Control' = Truej	
		Testing Conducted with Modifications to	True. False
	1	Standard Temperature Sensor Locations	
		Total Refrigerated Volume (fl ²)	<u> </u>
		Total Adjusted Volume (02)	
	!	Annual Energy Use (KWh/year)	
		A DECEMBER OF THE OWNER OWN	

Table X Continued - Oata Submittal Regultements

...[end of A]

...[skipping B through C]

...[skipping D "Singe-Duct and Dual-Duct Portable Air Conditioners" through D "Spot Air Conditioners"]

	Appliance	Required Information	Permissible Answers
[•Туре	Diract, incited, indirect/direct
D	Evaporativo Coolers	Evaporative Media Saturation Effectiveness (%) (for direct evaporative coolers only)	
		Media Type (for direct evaporative coolors only)	Expanded paper, woven plastic, espen wood, rigid celluloso, other (specify).
		Cooling Effectiveness (for indirect evaporative coolers only)	
		Total Power (wells)	<u> </u>
		Airflow Rate (CEM)	t
	·	ECER	· · · _ · _ · _ · _ · _ · _ ·
	Ceiling Fans	Ceiling fan type (required for models manufactured on or after January 21, 2020 noly)	High-speed small-diameter (HSSD), hugger, large diameter, standard, vory small-diameter (VSD)
		Diameter (inches)	T · ·
		CFM (low, medium, high)	F
		Walls ('ow, medium, high)	
		Efficacy (low, medium, high) [CFM/wait] (required for models manufactured before January 21, 2020 only)	
		Efficiency (CFWWall) (required for models manufactured on or after January 21, 2020 only)	
		Fan speed controls separate from light	True, faise
ļ		Adjustable Speed Controls	(Specify) speed, variable
		Reversible Fan Action Capable	True, Faise, Exception [Sec section 1805.1(d)(1)(A)3, of this Article]
		Light Source Type	Compact fluorescent, incandescent_other, None
	Ceiling Fan Light Kits	Sucket Type	Medium screw base, pin-based, other
	January 21, 2020	Packaged with all appropriate lamps to (/) all sockets	True, False
		Screw-based Lamps Requirement (Screw- base only)	Meet section 1605.1(d)(2)(A)1. or 2 of this Article (specify)
		Meet section 1605 1(d)(2)(B) of this Article (pin-based sockets only)	True, False
:		Operate with tamps totaling more than 190 walts (other socket types only)	True, False

	Table X	Continued	- Data Si	ubmittai j	Requirements
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"Identifier" information as described in section 1602(a) of this Article.
 1 - Voluntary for federally regulated appliances
 2 = Voluntary for state-regulated appliances

Table X Continued - Data Submittal Requ	uiremente
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	Appliance	Required Information	Permissible Answers
			Medium screw base, pin-based.
G	Cashoo Fan Light Kits	Sockel Type	integrated SSL, other
-	manufactured on or after	Packaged with lamps to fill all sockets	True False
	January 21, 2020	Lumens for each basic model of lamp or	
		each basic model of integrated SSL (Im)	· /
i		Rated watlage (watts)	
		Efficacy (Im 000	
	I	Enderty (m/wy)	
		 According to the second second	True. False
		Modium screw hase compact Eucrescent	
		samps more section 1605.1(d(2)(D)1. of Lois	
		Article (medium screw base sockels	True, Fatse
	!	packaged with compact fluorescent lamps	
		only)	·
		Pin-based sockets for fluorescent lamps	True, False
		Uses on electronic ballast (pin-based	True Falso
		sockets for fluorescent lamps only)	
┢╼			Inline sugle-port, Inline math-port,
ļ	Whole House Fans and	*Residential Exhaust Fan Typu	Range hood. Bathroom and utility
	Residential Exhaust Fans	l	' 10001. Re-Underse simple ten Right drive
	!		i qual fan. Diguet grive single-(20
I.		Whole-House Fan Type	Diroct dove qual-fan
	1	Free Muster Drawer (westly)	
i i		Par Moor Priver (waits)	
		Ar Filmy (CEM/watt)	
Ļ	<u> </u>	Reduct constitu (parts par disu)	
L	 Debuggidifiers	Energy Easter	
!	Denomidiaera	Energy-racking.	Portable dehumid fiers with a
	1		capacity less than or equal to 25
			pints per day, Portable
L			dehum;difi <u>ers with a capacity</u>
L		1	<u>preater than 25 pints per day and</u>
L	1		less than or equal to 50 pints per
1		i Dehumidder Type	day, Portable denumidatiers with a
			day Whole borne deturnidulers
			with a product case volume less
1			than or equal to 8 cubic feet,
	1		Whole-home dehumudifiers with a
!			product case volume greater than
	1	i	<u>a cubic feet</u>
		Water Capacity (pints per day)	<u>!</u>
E	1	Case Volume	!
		Integrated Energy Factor (Liters/Kilowatt	1
1	ļ	Hour	!

•	Residentia/ Furnace Fans		Nor-weatherized, non-condensing gas (NWG-NC); Non-weatherized, condensing cas (NWG-C); Weatherized man-
		Furnace Fan Types	condansing gas (WG-NC); Non Weatherized , non-condensing of (NWO- NC): Non-weatherized nloc(no fur@ace/hicidular blower fan (NWEF/MWMB); Mobile home non- weatherized inon-condensing gas (MNI- NWG-NC), Mobile home non-woathorized,
			concensing gas (Mn-NWG-C); Mobile home Glechio furnace/motucar blower fan IMH-EF/MBI; Mobile home pop- westherized of (MG-NOV), Mebile home westherized of (MG-NOV), Mebile home
		Airflow at the maximum airflow-control setting (in cfm) (Q _{ev})	
		Fan Energy Raling (FER)	i

"Identifier" information as described in section 1602(a) of this Article.
 1 - Voluntary for federally regulated appliances
 2 = Voluntary for state-regulated appliances

[end of D]

...[skipping E through []]

...[skipping G "Heat Pump Pool Heaters" through G "Other Pool Heaters"]

<u> </u>	Appliance	Regulred Information	Permissible Answers
		Equipment Class	
G -	· · Pumps (data	Total Pump Head in feet at BEP	
۲Ľ.,	collection required	Total Pump Head in feet at nominal speed	
1	for models	Volume per unit time (flow (ate) in gallors per	
1	manufactured on	minute (gpm) at BEP	
	or after Jacuary	Volume per unit 1 me (flow rate) in gal ons per	
	27 2020 only)	minute (gpm) at nominal speed	
		Nominal speed of rotation (rom)	
1		Calculated driver power input at each load	
		point ((P)) corrected to nominal speed, in	
	1	harsepawor (')p) ⁵	
		Driver power input at each load point $i(\mathcal{P})$.	
1		corrected to normal speed, in horsepower (lip) ²	
1		Driver power input (measured as the input power to j	
!		the driver and controls) at each load point $\ell(P^{\circ})$.	
1		corrected to normal speed, in horsepower (hp)	
I I		Full impellor diameter in inches	· ·
I I		PEL, calculated or tested*	<u> </u>
I I		PEL, calculated or tested ⁴	
1		Number of stages tested (RSV and ST plimps on y)	
1		Fump efficiency at BEP in percent (%) ***	
	I.	Pump efficiency at BEP in PER. 19	
		Pump efficiency at BEP in purcent (%) 1	
l I		Pump efficiency at BEP in PER.	
1		Pump configuration	<u> </u>
1		Nominal motor efficiency in percent (%) ^{15,6}	
1		Moto: horsepower (hp) for the motor with which the	
1		pump is being rated ^{4,5,6}	
1		Bowl diameter in inches (ST pumps only) ²⁴⁵	
1		PEI	
l	:	PEL.	
		C-value	

Table X Continued - Data Submittel Requirements

* "Identifier" information as described in section 1602(a) of this Article.

Voluntary for federally regulated appliances

2 - Volumary for state regulated appliances

3 – For pumps tested to the test methods prescribed in 10 C.F.R. section III of appendix A to subpart Y of part 431.

d = For pumps tested to the test methods prescribed in 40 C.F.R. section IV or V of appendix A to subpart Y of part 431.

5 - For pumps tested to the test methods prescribed in 10 C.E.R. section Vi or VII of appendix A to subpart Y of part 431.

6 - For pumps sold with electric motors regulated by DOE's energy conservation standards for electric motors at §431.25.

..[skipping the rest of G]

...[skipping H through K]

⊢⊣	Appliance	Required Information	Permissible Answers
L	Emergency Lighting	Light Source Type	LED, electro uminescent, fluorascent, incandescent, other (socially)
1		Hought of Lettors "E, X, T"	
1		Width of Lohers E. X. T	
:		Height of Letter 1"	╀──── ·-── ·-
		Width of Letter "I"	┦ ·───
		Battery Backup	True. False
		Number of Faces	
Í I		Input Power Watts	<u> </u>
		Ballast Luminous Efficiency	· · · · · · · · · · · · · · · · · · ·
		<u>Gircuit Besign</u>	Cathode sul-out electronic mononta
•		-Starl	I Instant, programmed rapid
		Ballast Frequency	High fromency, low fromusper other
		Average Total Lamp Arc Power	
_ !		Sign Format	Edge-lift panel, matrix, stencii, other
			(Spenify)
		Inout Power Oemand	
		Minimum Luminanue of Face	
-		Maximum Luminance of Eace	·
1		Average Luminance of Face	
		Maximum to Minimum Luminanco Ratio	
		, Luminance Contrast	

:

.

:

•••	(au)	Penulved Information	Permissible Answers
	Appliance	Action and all stime and adjustica	
		Inclucee Pistonanon-enderanteration	True, False
L	Self-Contained Lighting	HIGHVOHONE	
	Centrols	RECIVERS INSIGNATION IN A MILLION AND A MILLION A	True. Falso
	I	The walk of more	
		Meete line to cuitate costrol	Tru e, Falco
		Automatic the sector sector compared	
		milesona ima sudd control	True, False
[Automatic the stratu (emerger of the	
[neterium cal time united control	ମିମ୍ୟାକ: ୬:ରାନ୍ୟ
ĺ	I	Monte the requirements of an motion	
		Mensor	Irue, - 2/68
		Hools to we increase of an automatic	Lizza Calas
1		divisional control	ткие, гање
1	!	Le uteorated with a nhoso-control	True False
1		Muste the lighting photo-coel/of	
1		, requirer: 6915	
		Meets the oimmer-control requirements	True, False
i i		Meets-general-uccupancy sonsor	i Trus Eolea
1	I	4equirements	
i		Is rated for outdoor use	True.False
•		Meets partial on requirements	<u>! True, Fatse</u>
		Meete-partial off requirements	<u>True, False</u>
1		Meets vacancy senser requirements	True False
1	I	Uses ultraconic occupancy detection	<u> </u>
1	1	If uses ultraconic-occupancy detection,	True False NA
•		requirements	
L		Uses electromagnetic radiation for	True, False
		nccu pancy_detection	+
1	•	If uses electromagnet cradiation for	
1	1	occupancy detection -meute	True False - MA
		electromagnetie in utlance at 5cm from	
		emitter (mW/cm²)	· · · ·

Table X Continued - Data Submittal Requirements

... [end of L]

... [skipping M through W]

	Appliance	Required Information	Permissible Answers
×	Spray Sprinkler Bedy Bodies	Regulation pressure (psr)	
		Maximum operating pressure (psi)	
		Percent difference between the initial calibration flow rate and the maximum flow rate at any tested prossure level, averaged for the selected samples at the test prossure levels where the maximum flow rate occurred (percent)	
		Percent difference between the initial calibration flow rate and the Dow rate at each tested pressure levels averaged across all pressure levels and all selected samples (percent)	
	<u> </u>	Average outlet pressure at the initia/ calibration point of the selected samples (psi)	······································

Table X Continued - Data Submittal Requirements

* "Identifier" information as described in section 1602(a) of this Article.

1 = Voluntary for federally regulated apphances

2 - Voluntary for state-regulated appliances

(4) Declaration.

- (A) Each statement shall include a declaration, executed under penalty of perjury of the laws of California, that
 - all the information provided in the statement is true, complete, accurate, and in compliance with all applicable provisions of this Article;
 - the requirements of section 1606(g) of this Article have been and are being complied with;
 - for appliances for which there is an energy efficiency, energy consumption, energy design, water efficiency, water tonsumption, or water design standard in section 1605.1, 1605.2, or 1605.3 of this Article, that the appliance complies with the applicable standards;
 - the appliance was tested under the applicable test method specified in section 1604 of this Article, and, for the following appliances, was tested as follows:

...[skipping (a)(4)(A)4.a. through (a)(4)(A)4.g.]

- b. for kitchen faucets that unlize an optional and temporary higher flow rate than 1.8 gpm, the higher flow rate has been tested utilizing the test procedure identified for kitchen faucets in section 1604(h) of this <u>Article</u> at 60 pst and yerthed to have a flow rate less than or equal to 2.2 gpm.
- i. for state-regulated compressors that are rated using an alternative efficiency determination method (AEDM) in lieu of testing, that the represented value of efficiency, consumption, or other non-energy metrics for the basic model was determined through the alternative efficiency determination method specified in section 1604(s) of this Article.

EXCEPTIONS to section 1606(a)(4)(A)4 of this Article: Section 1606(a)(4)(A)1 of this Article is not applicable to the following types of apphances that have no test methods found in section1604 of this Article:

- (1) federally regulated organic light emitting diode (OLED) lamps,
- (2) federally regulated condelabra base incandescent lamps.
- (!) federally regulated intermediate base incandescent lamps,
- (4) traffic signal lamps,
- (5) torchieres, and
- (6) portable luminaires showing compliance with sections 1005,300(3)(A)1., 1605.3(n)(3)(A)2., or 1605.3(n83)(A)5. of this Article7 and,
- (7)-welf-contained lighting controls.

...[skipping the rest of (a)]

...[skipping (b) through (d)]

(e) Modified and Discontinued Appliances.

...(skipping (e)(1) through (e)(2)]

(3) If a manufacturer of a computer fails to obtain two ISV certifications within 60 days of certifying a computer model or loses ISV certifications such that the computer model no longer meets the definition of a workstation or mobile workstation, that manufacturer shall either file to remove the appliance from the database as described in Section 1606(e)(2) of this Agricie or shall modify the model certification as described in Section 1606(e)(1) of this Agricie to comply as a different computer type.

(f) Filing by Third Parties.

- A third party may file on behalf of a manufacturer the information required by sections (606(a)(2), 1600(a)(3), 1606(a)(4), 1606(c)(3), or 1606(c) of this Article if
 - (A) before or with its first submittal, the third party submits to the Executive Director through the MALDbS a declaration, under penalty of perjury, that:
 - the third party has read and understood all the provisions of this Article, of federal law, and of all other documents applicable to each appliance category in sections 1601(a) (w)(x) of this Article for which the third party will life information, including but not limited to updated test procedures, standards and filling regularements; and
 - 2 the third party is financially and technically capable of complying with the applicable provisions of this Astrole;

...[skipping the rest of (f)]

...[skipping (g) through (i)]

(j) Small Volume Manufacturers.

- (1) Entities seeking to be designated as a "small volume manofacturer" for purposes of Section (605.0(v)(7) of this Article shall certify and retain records to demonstrate the following information:
 - (A) Gross revenues from the 12-month period preceding the certification from all of the entity's operations, including operations of any other person or business entity that controls, is controlled by, or is under common control of the entity, is \$2,000,000 or less; and
 - (B) The manufacturer assembles and sells the computers at the same location.
- (2) If a small volume manufacturer no longer meets one of the requirements to be a small

volume manufacturer, the entity shall file to remove itself from the database as a smallvolume manufacturer within 50 days.

...[skipping the rest of section 1606]

Note: Authority cited: Sections 25213, 25218(e), 25401.9, 25402(a) 25402(c) and 25960, Public Resources Code; and Sections 16, 26, and 30, Governor's Exec. Order No. B-29-15 (April 1, 2015). Reference: Sections 25216.5(d), 25401.9, 25402(a)-25402(c), 25402.5.4 and 25960, Public Resources Code; and Section 16, Governor's Exec. Order No. B-29-15 (April 1, 2015).

§ 1607. Marking of Appliances.

..[skipping (a) through (c)]

(d) Energy Performance Information.

(1) Federally Regulated Consumer Products,

The marking required by 16 C.F.R. part 305 shall be displayed as required for all federally regulated consumer products of the following classes;

(A) Rrefrigerators,

- (B) Refrigerator-freezers,
- (C)_ffreezers.
- (D) Egentral air conditioners,
- (E) Hheat jumps,
- (E) Ddishwashers,
- (G) Wwater heaters,
- (H) Rroom air conditioners,
- Wwarm air furnaces,
- (I) Bboilers,
- <u>(K)</u> Ppool heaters,
- Country (1) Country
- (M) Ffluorescent lamp ballasts,
- (N)_Sshowerheads,
- (O) Ffaucers,
- (P)_Wyater closets,
- (O) Furinals,
- (R) Egeneral service incandescent reflector lamps,
- (S) Ggeneral service fluorescent lamps,
- (I) Ggeneral service incandescent (other than reflector) lamps,
- (U) Mmedium base compact fluorescent lamps,
- (V) Mmetal halide lamp fixtures.
- (W) Fielevisions, and
- (\underline{X}) Coeffing fans,

...[skipping (d)(2) through (d)(10)]

- (14) Bimergency Lighting and Self-Contained Lighting Controls. All occupant sensing devices which utilize interovave radiation for detection of occupants shall be marked with an approved Federal Communications Commission identifier: In addition, such devices must have permanently affixed installation instructions recommending that the device be installed at least 12 inches from any area normally used by room occupants.
- (12)(11) Air Filters, Each unit of air filters manufactured on or ofter April 1, 2019 shall be marked, permanently and legibly, on an accessible and conspicuous place on the edge of

:

the filter uself or on the pleats, in characters of font size 12, with the information specified in either section (A) or (B) below as applicable to the air filter model:

...[skipping the rest of (d)(0.2)(11)]

- (10)(12) State-Regulated LED Lamps. State-regulated LED lamps shall meet the criteria below before making any of the relevant claims in marketing materials, including retail packaging or on the lamp itself.
 - (A) For lamps manufactured on or after January 1, 2018, the following shall be demonstrated before making a claim of being "dimmable."
 - 1. The lamp shall be dimmable to 10 percent of its full light output.
 - 2. The lamp shall be reduced flicker operation;
 - Shall not produce poise in excess of 24 A-weighted decibels at 100 percent and 20 percent of full light output.
 - 4. If the product cannot be reduced flicker operation using a standard phase-cut dimmer, but can be reduced flicker operation using another type of dimmer, references to dimmability shall be qualified with the phase "dimmable with LED dimmer." These tamps shall include instructions on or inside the retail packaging that describe, or contain an internet link to a description of, the type of dimmers that are compatible or recommended for use with the lamp.
 - (B) State-regulated LFD lamps manufactured on or after famory 1, 2018 shall meet all of the following requirements before including comparisons to incandescent lamps:
 - 1. The lamp shall have a correlated color temperature of 30306K or less.
 - 2. The tamp shall be "dimmable" as described in 1607(d)(F38(12)(A) of this Article.
 - 3. The tamp shall have a fumen output of 310 humens or greater for medium screw
 - base lamps or 150 lumens or greater for intermediate and randelabra bases.

EXCEPTION to section 1607(d)(13)(12)(0) of this Article: Section 1607(d)(13)(12)(B) of this Article does not apply to incodescent wattage equivalency claims.

...[skipping the rest of (d)(13)(12)]

(H4913) Portable Electric Spas.

- (A) All portable electric spas manufactured on or after June 1, 2010, shall be marked by the manufacturer with the label specified in section 1607(d)(144(13)(8)) The label shall be legible, conspicuously displayed to the consumer, and be removed only by the consumer.
 - For standard, exercise, and combination spas, the label shall be affixed on a readily visible location on the shell or skirt panel of the unit.
 - For initiatable spas, the label shall be affixed on a readily visible location on the upit's retail packaging.
- (B) The label for all portable electric spas shall conform to the design specifications listed in subdivisions (00110,13)(B)1, through (d)(148(13)(B)4, in this section (inclusive). If the spa has been tested with multiple spa covers, the label shall display the most recent performance data, the model number, and the manufacturer, as listed in MAEDbS, of the tested spa cover of the spa unit-cover combination that yielded the maximum normalized standby power test result obtained in accordance with section 1605-3(g)(7)(B). The label may display the most recent spa cover model number(s) and corresponding spa cover manufacturer(s) for other covers tested with the unit. If the label lasts multiple spa covers, the label shall display the spa cover model number(s) and corresponding spa cover manufacturer(s) of the spa covers tested with the unit as listed in MAEDbS.
 - Tabel Specifications: the label shall be formatted as shown in Figure 1 and as directed in subdivision (001-0(1,3)(0)2, of this section.

...[skipping (d)(14)(13)(B)2.]

- The label shall be printed:
 - a on a removable adhesive-backed white polymer label or the equivalent for standard, everyse, and combination spas.
 - b. as specified in subdivision (d)(1-4)(13)(B)3.a. or integrated as part of the unit's retail packaging design for inflatable spas.
- 4. All adhesive labels shall be applied so they can be easily removed without the use of tools or liquids, other than water, but shall be applied with an adhesive with an adhesion capacity sufficient to prevent dislodgment during normal handling throughout the chain of distribution to the consumer.

(15)(14) Landscape Irrigation Equipment.

(A) Spray Sprinkler Bodies, Each spray sprinkler body manufactured on or after October 1, 2020, shall be marked, permanently and lepibly, to indicate the presence of an internal pressure regulator. The marking shall be on an accessible and conspicuous place on the spray sprinkler body and designed to be visible after installation.

...[skipping the rest of section 1607]

Note: Authority cited: Sections 25213, 25218(c), 25461.9, 25462(a)-25402(c) and 25960, Public Resources Code, Reference: Sections 25216.5(d), 25461.9, 25462(a)-25462(c), and 25966, Public Resources Code.

§ 1608. Compliance, Enforcement, and General Administrative Matters.

[No Changes]

§ 1609. Administrative Civil Penalties.

[No Changes]