ENERGY

MANDATORY

MEASURES

CUSTOMER:

Service Water Systems

Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 1.10°F

Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute.

Self-closing valves, and outlets devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.25 gallons/cycle (circulating system).

Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.50 gallons/cycle (non-circulating system)

Pools and Spas

Pool and/or spa heating systems or equipment shall be installed only if the manufacturer has certified that the system or equipment meets the requirements of *114 and *115 of the Energy Efficiency Standards.
Equipment shall not have a pilot light. All such systems shall be installed with at least 36" of pipe between the filter and the heater to allow for the future addition of solar heating equipment.

A cover pools. shall shall be be installed with directional adequately mix the pool provided ō outdoor

provided with a he pump to b beak electrical he minimum t naintain the w equired by app standards. lation pump(s) shall be with a time switch that allows to be set to run in the off-rical demand period, and for um time necessary to he water in the conditions y applicable public health

\$121(e) \$122(f) Controls sho outside air operated at specified in hall be provided to allow dampers or devices to but the ventilation rates as nothers plans. be

\$122(f) Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges o all space conditioning and exhaust systems. All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings. ್ತ

§121(f) Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1986); or

§122(E)

Each space conditioning s building types such as of manufacturing facilities (a not explicitly exempt from requirements of section 1 installed with an automati

g system serving offices and (and all others

d)) shall be

\$12(e)

Each space conditioning system shall installed with one of the following:

8124

Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.

\$123

Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.

§115(a)

Fan type central furnaces have pilot lights.

shall not

&111

Any appliance for which ther California standard establishe Appliance Efficiency Regulatio comply with the applicable s

there is a plished in the ulations with the standard.

Equipment and Systems Efficiency

Mechanical

Mandatory

Measure

\$121(f) Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 Mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or

\$121(f) Outside shall be equipped shall be equipped local or remote de measuring the qua on a continuous behat auantity on a le Air Measurement: The System be equipped with a calibrated or remote device capable of uring the quantity of outside air continuous basis and displaying quantity on a ready accessible

then resumes the normally operation; and has program capabilities that prevent the the device's program and for at least 10 hours if printerrupted; or

ally scheduled gram backup the loss of nd time settings power is

chedules for weekdays acorporate an automatic shut off feature that that for at least 24 have resumes the normal pabilities that prevente device's programment of the programment of the

off all

with an access erride that allows of stem during off—hou hours. The time swipable of programmadules for arrival and the stem of the stem o

o the

\$121(f) Another method Commission. approved δ _

Envelope Mana Measures Mandatory

\$122(e)

Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.

§113(b)

A 4—hour timer that can be manually operated to control the operating period of the system.

\$122(a)

An occupancy sensor to control the operating period of the systems; or

§118(a) Installed Insulating Material shall have been certified by the manufacturer to comply with California Quality Standards for Insulating material, Title 20

Each space cc.
multiple zones with
floor area more than zshall be provided with i
Each zone: shall not e
square feet; shall be p

ning system secombined cond 25,000 squa h isolation zo exceed 25,00 provided with ves or dampe

conditioning

\$118(c) §117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed. All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of the Title 24, Part 2

§116(a) §116(b) Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1—E. of standards manufactured fenestration products must be labeled for U—value according to NFRC procedures. Site Constructed Doors, Windows, and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

\$122 (A&B)

tach space conditioning zone shall be controlled by an individual thermostatic control that responds to temperature within the zone.

Where used to control hearing the control

18(e) Demising Walls in Nonresidential Buildings: The Opaque portions of rates not exceeding those shown in framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.

§122(b)

Heat Pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the neat pump alone.

Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel

and cooling minimum.

e up to sed to ing, the roviding a

Mechanical Measures

§113(b)

§113(b) Lavatories in restrooms of public facilities shall be equipped within of the following:

Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.75 gallons/cycle (foot switches and proximity sensor controls).

shall ਰ੍ਹ outdoor

§131(f) Control
Exterior
from the
building
photo ce

\$131(e) Lighting: Display lighting mounted fixtures and served separately switched on that are 20 amps of less.

ightin M

easures

Mandatory

§113(b) If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.

Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute

Proximity sensors actuated control valves and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute

8132

§131(b) §131(a)

Daylit Area
All rooms wi
that are gre
and that alk
daylight in t
the lamps in
by a separa
use of dayligh
because the
shaded by a
lot. Diagram
times of yea

Mandatory
- Cont.

\$131(d)1

systems separate off the shall me 119 and automatic capable the light

rery floor, all interior lighting is shall be equipped with a site automatic control to shut e lighting. This automatic control meet the requirements of Section and may be an occupancy sensor, atic time switch, or other device le of automatically shutting off shifting.

\$131(d)2

Override
The auto
is provid
override
The area
5,000 so

for Building Lighting Shut-Off omatic building shut-off system ded with a manual, accessible switch in sight of the lights.

If of override is not to exceed quare feet.

\$119(h)

Automati All auton are certi shall be directed

omatic devices Specified omatic devices specified rtified, all alternate equipment e certified and installed as by the manufacturer.

§113(b)

Fluoreso Certified All fluore

ent Ballast and Luminaries

escent fixtures specified for the are certified and listed in the ... All installed fixtures shall

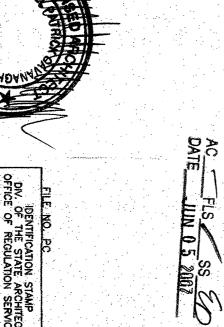
Tandem
Lamp Flu
and three
are tand
ballasts
Section
fluoresce Fluorescent Fixtures: All one rece lamp fluorescents fixtures ndem wired with two lamps were required by Standards 132; or all three lamp cents fixtures are specified with nic high-frequency ballasts and empt from tandem wiring ments.

Individual Room/Area Controls:
Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor—to—ceiling walls. equirem

Uniform
All rooms
square f
per squa
controlle m Reduction for Individual Rooms ms and areas greater than 100 feet and more than 0.8 watts ware foot of lighting shall be led with Bi-level switching for reduction of lighting within

31(c) of Exterior Lights
r mounted fixtures and served
he electrical panel inside the
g are controlled with a directional
cell control on the roof and a
sonding relay in the electrical krea Comtrol
ns with windows and skylights,
e greater than 250 square feet,
at allow for the effective use of
in the area shall have 50% of
ops in each daylit area controlled
eparate switch; or The effective
daylight cannot be accomplished
e the windows are continuously
by a building on the adjacent
agram of shading during different
of year is included on plans.

APP03 110694 DIV. OF THE STATE ARCHITECT



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PROJECT NO

REVISIONS
DESCRIPTION NO