# INITIAL STATEMENT OF REASONS FOR PROPOSED BUILDING STANDARDS OF THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY (DSA-SS) REGARDING THE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11

# (BSC-SS XX/19)

The Administrative Procedure Act (APA) requires that an Initial Statement of Reasons be available to the public upon request when rulemaking action is being undertaken. The following information required by the APA pertains to this particular rulemaking action:

## STATEMENT OF SPECIFIC PURPOSE, PROBLEM, RATIONALE and BENEFITS

Government Code Section 11346.2(b)(1) requires a statement of specific purpose of each adoption, amendment, or repeal and the problem the agency intends to address and the rationale for the determination by the agency that each adoption, amendment, or repeal is reasonably necessary to carry out the purpose and address the problem for which it is proposed. The statement shall enumerate the benefits anticipated from the regulatory action, including the benefits or goals provided in the authorizing statute.

**General purpose, problem, rationale and benefits:** DSA-SS proposes to amend existing amendments from the 2019 California Green Building Standards Code for inclusion in the 2019 California Green Building Standards Code, unless specifically modified below.

Key amendments proposed during this code cycle include:

* Amend the Electric Vehicle infrastructure tables to increase the percentages for mandatory electric vehicle capable spaces.
* Amend the Light Pollution reduction to add clarity.
* Relocate pre-rinse spray valves from voluntary into mandatory with additional amendments to reference Title 20.
* Update the VOC limits reference standard for Carpet systems, Carpet cushion and Resilient flooring systems in the mandatory and voluntary code provisions.

The intent of the code continues to (1) reduce greenhouse gas (GHG) emissions from buildings, (2) promote environmentally responsible, cost-effective, healthier places to live and work and (3) reduce potable water consumption in buildings.

The proposed changes to the building standards with statewide application will lead to substantial environmental benefits through reduction in GHG emissions, criteria pollutants, and fossil fuel dependency leading to improved public health, and potentially result in significant cost savings (avoided costs) associated with future installation of EV charging stations at public K-12 schools and community colleges.

The proposed additions, amendments and deletions to Chapter 5, of Part 11, Title 24, California Code of Regulations, are being made to clarify, implement and make specific requirements relative to the following items:

**ITEM 1. ELECTRIC VEHICLE INFRASTRUCTURE**

**Table 5.106.5.3.3** **EV charging space calculation.**

**Section 5.106.5.3.5 [N] Future charging spaces.**

DSA-SSis proposing to increase the percentage of electric vehicle infrastructure stalls for inclusion in the 2019 CALGreen Code, Table 5.106.5.3.3 for mandatory measures for new public K-12 schools and community college campuses, and new parking structures and additions to existing parking areas on existing public K-12 schools and community college campuses.  DSA is also proposing an amendment to the EV code Section 5.106.5.3.5 by adding a “Note” that states, “Future electric vehicle charging spaces shall be considered parking spaces and shall count for the total parking spaces required by the local enforcing agencies.” This amendment is needed because there is confusion from designers and local enforcing agencies that misinterpret the intent of the future EV charging stalls as not counting toward the total parking spaces requirements. While this note does not apply to public K-12 schools and community colleges, DSA does co-adopt this provision with the California Building Standards Commission for clarity of code application, and the adoption of this note will not result in any regulatory effect for public K-12 schools and community colleges.

**History:**

DSA’s Zero Emission Vehicle (ZEV) regulation is one strategy to improve air quality and reduce greenhouse gas emissions through advanced technology vehicle production and Low-Emission Vehicle Regulations placed on automobile manufacturers.  Consumers are embracing electric and electric/hybrid vehicles and there is a need for widespread infrastructure to support future charging needs. Additionally, the Governor’s Office Zero Emission Vehicle (ZEV) Action Plan identifies strategies and actions supporting the milestones identified in Executive Order B-16-12, and a revised target of 5 million ZEVs on California’s roadways by 2030 as directed by Executive Order B-48-18.

**Rationale for proposed code change:**

DSA-SS is proposing to increase the percentages for EV infrastructure in Table 5.106.5.3.3 from 6 percent to 10 percent. This increase will accommodate a foreseeable increase in the demand for EV charging.  The addition of the “Note” in section 5.106.5.3.5 will provide guidance to the design and regulation community for properly using the EV infrastructure table stall count as part of the total required parking spaces. While this note does not apply to public K-12 schools and community colleges, DSA does co-adopt this provision with the California Building Standards Commission for clarity of code application, and the adoption of this note will not result in any regulatory effect for public K-12 schools and community colleges.

**ITEM 2. LIGHT POLLUTANT REDUCTION**

**Section** **5.106.8 and Table 5.106.8 Light pollution reduction.**

**Sections: 5.106.8.1** **Facing – Backlight; 5.106.8.2** **Facing – Glare.**

DSA-SS proposes to strike the **[N]** banner from Exceptions in Section 5.106.8 since the exceptions are not only for new construction.

DSA-SS proposes to amend Exception 1 to add an exception for cutoff luminaires to align CALGreen with the BUG requirements and exceptions adopted into Section 130.2(b) of Title 24, Part 6, *2019 California Energy Code*.

DSA proposes to add Exception 5, for “Luminaries with less than 6,200 initial luminaire lumens” to align CALGreen with similar language adopted in the *2019 California Energy Code* Section 130.2(b), Luminaire cutoff requirements. The purpose of the new exception 5 is to align the scope of Part 11, Section 5.106.8 to the scope of similar provisions in Part 6, Section 130.2(b). Light pollution provisions were first adopted into Part 6 and later moved into Part 11.  To the extent that the language in Part 11 could have been understood to be more broad in application than that in Part 6, this change has the material effect of narrowing the application of these requirements to luminaires within the scope of the Part 6 provisions. This change is necessary to prevent a conflict between the scoping provisions of light pollution in Parts 6 and 11; the scoping provisions in Part 11 are intended to reflect the scoping provisions in Part 6.

DSA-SS proposes to strike the **[N]** banner from “Notes” in Section 5.106.8 since the note #3 mentions a reference to the *California Energy Code* for additions and alterations.

DSA-SS proposes to repeal footnotes 3 and 5 from Table 5.106.8 and relocate them into two new code Sections 5.106.8.1 with exception and Section 5.106.8.2. This amendment will add clarify for their application and intent.  As a result of the proposed change, the footnotes in Table 5.106.8 will need to be updated accordingly. To the extent that the original language was ambiguous regarding when increases in stringency of backlight and glare would apply, and how luminaire facing was to be addressed, this change has the material effect of ensuring that increased requirements do not apply to luminaires located more than two mounting heights away from property lines, and precluding illogical facing of luminaires located close to property boundaries.  The changes to this section are necessary to align the application of Section 5.106.8 to the intent of the original code language and to ensure the requirements comply with backlight and glare ratings, but do not apply when they would not be of benefit.

DSA-SS proposed amendments will benefit the code user by clarifying the exceptions to the requirements of light pollution reduction by avoiding conflict with mandatory provisions of California Energy Code for newly constructed and additions and alterations to public K-12 schools and community college buildings. Additionally, the new code sections will help clarify the application and intent of how backlight and glare are to be addressed when located near property lines.

**ITEM 3. PRE-RINSE SPRAY VALVES**

**Section: 5.303.3.4.6 Pre-rinse Spray Valve**

In coordination with the Department of Housing and Community Development (HCD), the Office of Statewide Health Planning and Development (OSHPD), and the California Energy Commission (CEC), DSA-SS is proposing this new subsection to align with the Appliance Efficiency regulations adopted by the CEC in Title 20 of the *California Code of Regulations*. On January 28, 2019, the amended federal standards for all commercial pre-rinse spray valves went into effect (Title 10, Code of Federal Regulations, section 431, subpart O). The federal standards for flow rate of commercial pre-rinse spray valves manufactured on or after January 28, 2019, shall be equal to or less than the values shown in Table H-2. Table H-2 can be found in Title 20, California Code of Regulations, section 1605.1(h)(4). And per Title 20 Section 1605.3(h)(4)(A); Commercial pre-rinse spray valves manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf) [113 grams-force (gf)]. Additionally, Title 20 has a requirement that pre-rinse spray valves need to be labeled per Title 20, Section 1607(d)(7) so DSA-SS is also adding a reference to that code section. Lastly, the model code Section 420.3 has a requirement for valves to be equipped with an integral automatic shutoff and DSA-SS is proposing to duplicate that requirement in new Section 420.3.1. Finally, this code change reflects the same provisions adopted by DSA-SS in CALGreen Section 5.303.3.4.6. Consistency among federal law and state regulations will benefit the code user, and there is no intended change in regulatory effect.

**ITEM 4. POLLUTION CONTROL**

**Sections: 5.504.4.4 Carpet systems; 5.504.4.4.1 Carpet cushion; 5.504.4.6 Resilient flooring systems.**

[Associated Sections: 4.504.3 and Chapter 6, ANSI Standards, NSF/ANSI 140-2014]

DSA proposes to amend Chapter 5, Section 5.504.4.4 (carpet systems), Section 5.504.4.4.1(Carpet cushion), and Section 5.504.4.6 (resilient flooring systems) to update the referenced standard for the new California Department of Public Health (CDPH) for Volatile Organic Compounds (VOC) limits. DSA-SS is proposing to only reference the new CDPH VOC limits standard for these materials and proposes to repeal all other testing standards listed as those third party testing standards all rely on the CDPH testing standard criteria. DSA-SS is proposing to provide a web link to CDPH’s website for certification programs and testing labs.

Updating the reference to the new CDPH standard and by only using the CDPH standard for VOC limits will aid the code user in properly applying the most recent reference standard. Using one single source for the most current information will also aid the code user and the regulatory agencies. These amendments are non-substantive with no intended change in regulatory effect.

## TECHNICAL, THEORETICAL, AND EMPIRICAL STUDY, REPORT, OR SIMILAR DOCUMENTS

Government Code Section 11346.2(b)(3) requires an identification of each technical, theoretical, and empirical study, report, or similar document, if any, upon which the agency relies in proposing the regulation(s).

* There was no technical, theoretical or empirical study, report, or similar documents used as the basis for the proposed amendment to the 2019 California CALGreen Code.

## STATEMENT OF JUSTIFICATION FOR PRESCRIPTIVE STANDARDS

Government Code Section 11346.2(b)(1) requires a statement of the reasons why an agency believes any mandates for specific technologies or equipment or prescriptive standards are required.

* The proposed amendments to CALGreen Code regulations do not mandate any specific technologies or equipment, and do not require any prescriptive standards.

## CONSIDERATION OF REASONABLE ALTERNATIVES

Government Code Section 11346.2(b)(4)(A) requires a description of reasonable alternatives to the regulation and the agency’s reasons for rejecting those alternatives. In the case of a regulation that would mandate the use of specific technologies or equipment or prescribe specific action or procedures, the imposition of performance standards shall be considered as an alternate. It is not the intent of this paragraph to require the agency to artificially construct alternatives or describe unreasonable alternatives.

* DSA-SS has not identified any reasonable alternatives to these proposed regulations, which do no mandate the use of specific technologies or equipment.

## REASONABLE ALTERNATIVES THE AGENCY HAS IDENTIFIED THAT WOULD LESSEN ANY ADVERSE IMPACT ON SMALL BUSINESS

Government Code Section 11346.2(b)(4)(B) requires a description of any reasonable alternatives that have been identified or that have otherwise been identified and brought to the attention of the agency that would lessen any adverse impact on small business.

* No alternatives were identified that would lessen any adverse impact on small business. Small businesses will not experience an adverse impact due to these amendments.

## FACTS, EVIDENCE, DOCUMENTS, TESTIMONY, OR OTHER EVIDENCE OF NO SIGNIFICANT ADVERSE IMPACT ON BUSINESS

Government Code Section 11346.2(b)(5)(A) requires the facts, evidence, documents, testimony, or other evidence on which the agency relies to support an initial determination that the action will not have a significant adverse economic impact on business.

* DSA did not identify any facts, evidence, documents, testimony, or other substantiation to make an initial determination of significant adverse economic impact on businesses. DSA has determined that this regulatory action would not have a significant adverse economic impact on California business enterprises and individual, including the ability of California businesses to compete with businesses in other states.

## ASSESSMENT OF EFFECT OF REGULATIONS UPON JOBS AND BUSINESS EXPANSION, ELIMINATION OR CREATION

Government Code Sections 11346.3(b)(1) and 11346.5(a)(10)

The DSA has assessed whether or not and to what extent this proposal will affect the following:

1. The creation or elimination of jobs within the State of California.

These regulations may cause some jobs to be created for the installation, maintaining and manufacturing of Electric Vehicle Supply Equipment (EVSE). No jobs are expected to be eliminated within the State of California

1. The creation of new businesses or the elimination of existing businesses within the State of California.

These regulations may cause the creation of businesses that expand into the EV market. These regulations will not affect the elimination of jobs within the State of California.

1. The expansion of businesses currently doing business within the State of California.

These regulations will likely promote the expansion of businesses currently involved with EV manufacturing, installation, maintenance and technology development within the State of California.

1. The benefits of the regulation to the health and welfare of California residents, worker safety, and the state’s environment.

These regulations will increase the sustainability of California’s natural resources by reducing fuel use, GHG emissions, criteria pollutants, and fossil fuel dependence. Additionally, updating and clarifying the minimum current CALGreen codes will provide increased protection of public health and safety, worker safety and the environment.

## ESTIMATED COST OF COMPLIANCE, ESTIMATED POTENTIAL BENEFITS, AND RELATED ASSUMPTIONS USED FOR BUILDING STANDARDS

Government Code Section 11346.2(b)(5)(B)(i) states if a proposed regulation is a building standard, the initial statement of reasons shall include the estimated cost of compliance, the estimated potential benefits, and the related assumptions used to determine the estimates.

* There are no increased costs to comply with the proposed updated CALGreen Code regulations. The amendments provide clarity and regulatory consistency for the code user.

## DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS

Government Code Section 11346.2(b)(6) requires a department, board, or commission within the Environmental Protection Agency, the Resources Agency, or the Office of the State Fire Marshal to describe its efforts, in connection with a proposed rulemaking action, to avoid unnecessary duplication or conflicts with federal regulations contained in the Code of Federal Regulations addressing the same issues. These agencies may adopt regulations different from these federal regulations upon a finding of one or more of the following justifications: (A) The differing state regulations are authorized by law and/or (B) The cost of differing state regulations is justified by the benefit to human health, public safety, public welfare, or the environment.

* There are no proposed CALGreen Code regulations that duplicate or conflict with federal regulations. CALGreen is a California-only code and there are no federal regulations addressing this same subject matter.