

**FINAL STATEMENT OF REASONS
FOR
PROPOSED BUILDING STANDARDS
OF THE
OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT

REGARDING THE CALIFORNIA BUILDING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2**

The Administrative Procedure Act requires that every agency shall maintain a file of each rulemaking that shall be deemed to be the record for that rulemaking proceeding. The rulemaking file shall include a final statement of reasons. The Final Statement of Reasons shall be available to the public upon request when rulemaking action is being undertaken. The following are the reasons for proposing this particular rulemaking action:

UPDATES TO THE INITIAL STATEMENT OF REASONS: (Government Code Section 11346.9(a) (1) requires an update of the information contained in the initial statement of reasons. If update identifies any data or any technical, theoretical or empirical study, report, or similar document on which the state agency is relying that was not identified in the initial statement of reasons, the state agency shall comply with Government Code Section 11347.1)

There are no revisions to the Initial Statement of Reasons, as shown below.

The specific purpose and rationale of each adoption, amendment, or repeal is as follows:

Title 24 Part 2, Chapters 14, 15, 16, 16A, 17, 17A, 18, 18A, 19, 19A, 20, 21, 21A, 22, 22A, 23, 24, 25, 26, 31, 33, 34, 34A, 35, Appendix Chapter 1 and Appendix J:

The Office of Statewide Health Planning and Development (OSHPD) adopt California Building Code (CBC) requirements for hospital, skilled nursing facility, intermediate care facilities, licensed clinic and correctional treatment center construction. The requirements governing the structural design and construction of OSHPD regulated facilities are currently found in the structural chapters of the 2001 CBC. These chapters are based on the structural provisions of 1997 Uniform Building Code (UBC).

Pursuant to the direction of the California Building Standards Commission, the 2007 CBC shall be based on the 2006 IBC. This proposal represents OSHPD's adoption of the 2006 IBC for incorporation into the 2007 triennial edition California Building Code. In addition, OSHPD proposes superseding Chapters 16A, 17A, 18A, 19A, 21A, 22A and 34A based upon the 2006 IBC, for the design of hospital buildings, skilled nursing facility, intermediate care facilities and correctional treatment center construction. These structural provisions will amend IBC Chapters 16, 17, 18, 19, 21, 22 & 34.

The specific purpose and rationale for the amendments in the 2007 CBC Chapter 14 provisions:

**CHAPTER 14
EXTERIOR WALLS**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standard for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language is shown in the express terms and part of the text that is repealed is shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column shows where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated with the purpose and rationale stated.

Section 1403.2 – OSHPD regulated facilities are exempt from Title 24 Part 6 by statute.

Section 1405.1.1 – This reference is added to seismic design requirements in Section 1408 for proper use of the section.

Section 1405.10.4 – This section refers to the ICC Electrical Code for grounding of metal veneers. The OSHPD is proposing to replace the reference to the ICC Electrical Code with the California Electrical Code. The amendment is necessary to ensure that the statutory code is properly referenced.

Section 1408.3 (Relocated from 1403A.4.1, 1403A.4.4, 1403A.5.3, 1403A.5.6 & 1405A.1, CBC 2001) – This section retains the requirements for adhered and anchored veneer design, testing and inspection from the 2001CBC, Sections 1403A.4.1, 1403A.4.4, 1403A.5.3, 1403A.5.6 &1405A.1. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapter 15 provisions:

**CHAPTER 15
ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standard for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language is shown in the express terms and part of the text that is repealed is shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column shows where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated with the purpose and rationale stated.

Section 1503.4 – This section refers to the International Plumbing Code for roof drainage system design and installation. The OSHPD is proposing to replace the reference to the International Plumbing Code with the California Plumbing Code. California Plumbing Code is proposed to be based upon the Uniform Plumbing Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Plumbing Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Plumbing Code would apply.

Section 1507.3.10 – The reference is added to seismic design requirements in Section 1511 for proper use of the section.

Section 1507.7.6 – The reference is added to seismic design requirements in Section 1511 for proper use of the section.

Section 1511(Relocated from 1507.1.1, 1507.7.1 & 1507.11.1, CBC 2001): – This section retains the seismic design requirements for roof fasteners, wire and metal strip from Sections 1507.1.1, 1507.7.1 & 1507.11.1 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format. Also, an alternative design procedure is added to make the design more flexible.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 16 provisions:

**CHAPTER 16
STRUCTURAL DESIGN**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in CBC 2001, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forwarded are indicated and purpose and rationale stated.

Section 1601.2 – This section requires that amendments to reference standard in the 2007 CBC be applied uniformly to all applicable standards. This also addresses the resolution of discrepancy between the 2007 CBC and reference standards.

Section 1601.3 – This section will codify the current OSHPD practice for enforcement agency approval & is consistent with existing 2001 CBC requirements.

Section 1602.1 (Relocated from 1641A.1, CBC 2001) – This section retains the definitions of enforcement agent from Section 1941A.1 of the 2001 CBC. Interchangeable use of the word enforcement agent with the terms Building official and / or Code official in these regulations and reference standards is clarified.

Section 1603.1 – This section references the requirement for construction documents contained in California Building Standards Administrative Code, CCR Title 24, Part 1 (CAC).

Section 1605.3.2: (Relocated from 1632.1, CBC 2001) – This section retains the provision of not allowing 1/3rd stress increase for intermittent connection from Section 1632.1 of the 2001 CBC. This change simply moves the current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Table 1607.1 (Relocated from Table 16-B, CBC 2001) – This table retains the loading requirements from the 2001 CBC Table 16-B for storage racks. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1609.1.1 (Relocated from 1619, CBC 2001) (Exception 5) – This amendment is necessary to ensure consistency with Section 1609.4.

Section 1609.4 (Relocated from 1619, CBC 2001) – This section retains the requirement for an architect or structural engineer to provide a justification to the enforcement agent prior to using Exposure Category B from Section 1619 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1612.3 – This section adds the requirement for flood hazard map adopted by local jurisdiction to be used as a basis for design in flood hazard as required by the IBC.

Section 1612.5 – The section references are revised to accommodate relocation of Chapter 1 of the 2006 IBC to Appendix as Chapter 1 for the 2007 CBC.

Section 1613.1 (Exception) – The amendment is necessary to ensure consistency with Sections 1613.5.6 and 2308.

Section 1613.5.1 (Exception) – The amendment is necessary to ensure consistency with Section 1613.5.6.

Section 1613.5.6 (Exception) – The ductility and /or redundancy requirements in design & material standards depend on the Seismic Design Category. The requirement of this section for structure to be placed in Seismic Design Category D, as a minimum, will ensure that all structural design will be ductile and / or redundant. This requirement does not change the base shear required by model code.

Section 1613.5.6.1 (Exception) – The amendment is necessary to ensure consistency with Section 1613.5.6.

Section 1613.5.6.2 (Exception) – The amendment is necessary to ensure consistency with Section 1613.5.6.

Section 1613.6.1 – This section refers to the IBC for wood structural panel diaphragms. The OSHPD is proposing to replace the reference to the IBC with the CBC. While the CBC is proposed to be based upon the IBC, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the IBC proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IBC would apply.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 16A provisions:

**CHAPTER 16A
STRUCTURAL DESIGN**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 16A to a chapter other than Chapter 16A are shown in the relocated Chapters.

Section 1601A.1 – This Chapter’s scope is revised by adding Sections 1601A.1.1 and 1601A.1.2 to clarify application of Chapter 16A to OSHPD 1 and 4 facilities and to define acronyms for OSHPD facilities. Chapter 16A is based on Chapter 16 of the 2006 IBC. To accommodate the substantial number of amendments for immediate occupancy structures in moderate to high seismic areas, amended Chapter 16A is created.

Section 1601A.2 – This section requires that amendments to reference standard contained in the 2007 CBC be applied uniformly to all applicable standards. This section also addresses the resolution of discrepancy between the 2007 CBC and reference standards.

Section 1601A.3 – This section will codify the current OSHPD practice for enforcement agency approval and is consistent with the existing 2001 CBC requirements.

Section 1602A.1(Relocated from 1641A.1 / 1602A, CBC 2001) – This section retains the definitions of enforcement agent from Section 1641A.1 of the 2001 CBC and its interchangeable use with the terms building official and/or code official in these regulations and reference standards is clarified. This section also retains the definition for hospital building from Section 1602A of the 2001 CBC.

Section 1603A.1 – This section makes reference to the requirement for construction documents contained in California Building Standards Administrative Code, CCR Title 24, Part 1.

Section 1603A.1.5.1 (Relocated from 1633A.2.3, CBC 2001) – This section retains the requirement for connections that resist design seismic forces to be detailed on drawings from Section 1633A.2.3 of the 2001 CBC. This is original language from the 1997 UBC carried forward as an amendment. This change simply moves the current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1603A.3.1 (Relocated from 1614A.1, CBC 2001) – This section retains the requirements for snow load posting from Section 1614A.1 of the 2001 CBC. Part of the text deleted is a maintenance function not a design or construction requirement. Maintenance requirement is implied in section 1603A.3.2. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1603A.3.2 (Relocated from 1607A.3.5.2, CBC 2001) – This section retains the requirement that hospital governing boards be responsible for keeping the actual load below the posted load from Section 1607A.3.5.2 of the 2001CBC 2001.

Table 1604A.3 (Relocated from Table 16A-W, CBC 2001) – This section retains the veneer deflection requirement from Table 16A-W from the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1604A.3.7 (Relocated from 1613A.2, CBC 2001) – This section retains the lateral load deflection requirements from Section 1613A.2 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format. Also prescriptive requirements for diaphragm in the 2001 CBC are replaced by national standards.

Section 1604A.3.8 (Relocated from 1613A.1, CBC 2001) – This section retains the requirements from Section 1613A.1 of the 2001 CBC for an architect and/or structural engineer to develop deflection criteria when not specified in the building code and enforcement agency approval. Part of the text is the original 1997 UBC language. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Table 1604A.5 (Relocated from Table 16-K, CBC 2001) – This table retains the requirements for all hospitals classified as OSHPD 1 and 4 to be placed in Occupancy Category IV from the 2001 CBC Table 16-K. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1604A.11 (Relocated from 1605A.5, CBC 2001) – This section retains the requirement for unusual construction procedures to be detailed on the design drawing & be approved by the enforcement agent from Section 1605A.5 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1605A.3.2 (Relocated from 1632A.1, CBC 2001) – This section retains the provision of not allowing 1/3rd stress increase for intermittent connection from Section 1632A.1 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1605A.5 (Exception) – This section deletes the exception to the code provision, which is a relaxation of the current standards. For immediate occupancy buildings, this relaxation can't be justified at this time because of unavailability of long term use data.

Section 1606A.3 (Relocated from 1607A.4.1, CBC 2001) – This section retains the requirements of roof to be designed for one reproofing load from Section 1607A.4.1 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Table 1607A.1 (Relocated from Tables 16A-A / 16A-B, CBC 2001) – This table retains the loading requirements for floor and storage racks from Tables 16A-A and 16A-B from the 2001 CBC. This change simply moves current standards, which are not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1607A.11.2.2 (Relocated from 1607A.4.4, CBC 2001) – This section retains the loading requirements for uncovered open roof from Section 1607A.4.4 of the 2001 CBC. This change simply moves current standards, which are not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1607A.13 (Relocated from 1611A.5, CBC 2001) – This section retains the deflection requirements for interior wall from Section 1611A.5 of the 2001CBC. This is the original 1997UBC language retained as an amendment. This change simply moves current standards, which are not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1608.2 – The reference to Alaska & Hawaii snow load is deleted.

Section 1609A.1.3 (Relocated from 1620A, CBC 2001) – This section retains the deflection requirements for wind load from Section 1620A of the 2001CBC. This change simply moves current standards, which are not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1609A.4 (Relocated from 1619, CBC 2001) – This section retains the requirement from Section 1619 of the 2001 CBC for an architect or structural engineer to provide a justification to the enforcement agent prior to using exposure B. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1612A.3 – This section adds the requirement for flood hazard map adopted by local jurisdiction to be used as a basis for design in flood hazard areas as required by the IBC.

Section 1612A.5 – The section references are revised to accommodate relocation of Chapter 1 of the 2006 IBC to Appendix as Chapter 1 for the 2007 CBC.

Section 1613A.1 – This section is revised to ensure that all the amendments to ASCE 7 are incorporated in the design and the correct structural design category is adopted from the CBC instead of ASCE 7.

Requirements in exception which are not covered by scope of Chapter 16A are deleted. In addition, Section 2308 reference is deleted to be consistent with modified Section 2308.

Section 1613A.1.1 (Relocated from 1626A.4, CBC 2001) – This section retains the requirements that structure with unusual configuration to provide same level of safety as the customary configuration from Section 1626A.4 of the 2001 CBC 2001. This change simply moves current standards, which are not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1613A.2 (Relocated from 1627A / 1641A, CBC 2001) – This section retains the definition of terms associated with earthquake from Sections 1627A and 1641A of the 2001 CBC. Part of the text is the original 1997 UBC language carried forward as amendment. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Figure 1613.5.1 – The seismic maps in figures 1613.5 (1) through 1613.5 (14) found in Chapter 16 are not duplicated in Chapter 16A. These maps are also available in ASCE 7, Chapter 22.

Section 1613A.5.1 – The amendment is necessary to ensure consistency with Section 1613A.5.6.

Section 1613A.5.6 – The ductility and redundancy requirements in design and material standards depend on seismic design category. Requirement of this section for structure to be placed in Seismic Design Category D, as a minimum, will ensure that all structural design will be ductile and / or redundant. This requirement does not change the base shear required by model code.

Fault mapping is not perfect and attenuation relationship used by United States Geological Service does not address potential amplification of ground motion at bottom of valleys. Redundancy factor (ρ) is not applied to Seismic Design Category A through C. Most of the ductile detailing requirements in concrete, masonry and wood do not apply to Seismic Design Category A through C.

Section 1613A.5.6.1 – The amendment is necessary to ensure consistency with Section 1613A.5.6.

Section 1613A.5.6.2 (Relocated from 1630A.2.3, CBC 2001) – ASCE 7 Section 12.14.1.1 limit simplified design procedure to Occupancy Category I and II, this does not include any hospitals classified as OSHPD 1 and 4. This change simply moves current standard from Section 1630.2.3 of the 2001 CBC to a new section of the code to be consistent with the IBC format.

Section 1613A.6.1 – This section refers to the IBC for wood structural panel diaphragms. The OSHPD is proposing to replace the reference to the IBC with the CBC. While the CBC is proposed to be based upon the IBC, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the IBC proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IBC would apply.

Section 1613A.6.2 – This section codifies the current OSHPD practice of allowing Intermediate Moment Frames in base-isolated buildings. There is a concern about limited ductility of Ordinary Moment Frames in the plastic range & are not permitted.

Section 1614A.1 – This section modifies ASCE 7, which is the primary reference standard and basis for most of the requirements in Chapter 16A.

Section 1614A.1.1 – This section codifies the current OSHPD practice of requiring design criteria submittal prior to non-linear analysis. Wide use of non-linear analysis for design is a relatively new phenomenon, often resulting in subjective interpretation by the practicing engineer. This requirement will ensure uniformity in design using non-linear procedure.

Section 1614A.1.2 – This section creates uniformity in requirements contained in ASCE 7 & FEMA 356, so that new and existing structures will be designed to similar standards. Also, the current OSHPD practice of requiring site specific study for structures located within 10km of an active fault is codified.

Section 1614A.1.2 – This section codifies the current OSHPD practice of not allowing certain systems, which either have performed poorly in the past earthquakes or do not have enough accumulated knowledge and/or test data to justify their use under all circumstances. These systems can be used as an alternate system when pre-approved by the enforcement agency on a case by case basis.

Section 1614A.1.4 (Relocated from 1629A.8.3 /1630A.4.2, CBC 2001) – This section retains the requirements for two -stage analysis using equivalent lateral force procedure from Sections 1629A.8.3 and 1630A.4.2 from the 2001 CBC. Part of the text is original UBC 1997 language. This change simply moves current standards, which are not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.5 (Relocated from 1629A.9.1, 1630A.9.4 and 1629A.9.5, CBC 2001) – This section retains the requirements that certain irregular structures not to be used from the 2001CBC 2001, Sections 1629A.9.1, 1629A.9.4 and 1929A.9.5. Part of the text is the original 1997 UBC language carried forward as an amendment. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.6 (Relocated from 1630A.1.1.5, CBC 2001) – This section retains the requirement of including earth pressure when there is a grade difference of more than six feet from Section 1630A.1.1.5 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.7 (Relocated from 1630A.2.1, CBC 2001) – The minimum base shear requirement provided by ASCE 7 Equation 12.8 -5 is pretty much equivalent to requirement for base shear in Seismic Design Category A in Section 11.7. This is a deviation from current practice for both the 2003 IBC & the 2001 CBC. Since there is no practical experience with performance of structure with such a low base shear in seismically active areas such as California, this requirement is modified.

Equation 12.8-5 is modified to provide minimum base shear that can be achieved by using the 2001CBC Equation 30A.6:

For $I = 1.00$, $C_a = 0.30$ (for Seismic Zone 3, Soil Profile S_B)

$$C_s = 0.11 \times 1.00 \times 0.30 = 0.033$$

Use minimum base shear of 0.03 or 3%.

Section 1614A.1.8 – This section ensures that stability coefficient (θ) is calculated for proper deflection & not the deflection divided by importance factor as shown in ASCE 7 Equation 12.8-15.

Section 1614A.1.9 – This section will ensure that base shear generated by modal response spectrum analysis is not less than the base shear required for equivalent static base shear. This will be a relaxation of requirements from the 2001 CBC, Section 1631A.5.4 for irregular structures.

Section 1614A.1.10 (Relocated from 1633A.2.12, CBC 2001) – This section retains the requirement for foundation design from CBC Section 1633A.2.12. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.11 – This section merely ensures that relative displacement is properly accounted for when importance factor is higher than 1.0.

Section 1614A.1.12 (Relocated from 2501A.5, CBC 2001) – The provisions of ASCE 7 and CISCA (Ceiling & Interior Systems Construction Association) for Seismic Zones 3 and 4 have been modified to be

compatible with current requirements from Section 2501A.5 of the 2001CBC . This change simply moves the current standard, which is more restrictive than the model code to be consistent with the IBC format.

Section 1614A.1.13 (Relocated from 1644A.13.1.2.1, CBC 2001) – The requirements for HVAC Duct, Pipe & Trapeze have been retained from Section 1644A.13.1.2.1 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.14 – This change is necessary to avoid conflict between ASCE 7-05 section 13.6.7 & SMACNA guidelines, that do not differentiate between an $I_p = 1.0$ and 1.5.

Section 1614A.1.15 (Relocated from 1633A.2.13.1, CBC 2001) – This section retains the requirements of designing elevator guide rail from Section 1633A.2.13.1 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.16 (Relocated from 1644A.2.13.1, CBC 2001)– This section retains the requirements for retainer plate, acceleration & deflection from Section 1633A.2.13 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.17 (Relocated from 1634A.5, CBC 2001) – This amendment is necessary for consistency with Section 1614A.1.7.

Section 1614A.1.18 (Relocated from 1657A.3, CBC 2001) – This section retains the requirements for higher importance factor for non-structural components in base isolated building from Section 1657A.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.19 (Relocated from 1661A.2.7, CBC 2001) – This section retains the requirements that uplift & rocking be accounted for in analysis of base isolated buildings from Section 1661A.2.7 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.20 (Relocated from 1661A.2.8, CBC 2001) – This section retains the requirements for inspection & replacement of isolators from Section 1661A.2.8 of the 2001CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.21 (Relocated from 1661A.2.9, CBC 2001) – This section retains the requirements for prototype & production isolator testing from Section 1661A.2.9 of the 2001CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.22 (Relocated from 1661A.2.8, CBC 2001) – This section retains the requirements for instrumentation of base isolated buildings from Section 1661A.2.8 of the 2001CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.23 (Relocated from 1661A.3.2, CBC 2001) – This section retains the requirements for building separation above base isolation for base isolated buildings from Section 1661A.3.2 of the CBC 2001. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.24 (Relocated from 1657A.5.3.3, CBC 2001) – This section retains the requirements for site specific ground spectra from Section 1657A.5.3.3 of the 2001 CBC. This is original UBC 1997 language carried forward as an amendment. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.25 (Relocated from 1659A.4.2, CBC 2001) – This section retains the requirements for ground motion time history scaling for isolated building from Section 1659A.4.2 of the 2001 CBC. This

change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.26 (Relocated from 1657A.5.2, CBC 2001) – This section retains the limitation for use of static force procedure in design of base isolated building from Section 1657A.5.2 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.27 (Relocated from 1657A.5.3, CBC 2001) – This section retains the limitation for use of response spectrum procedure for design of base isolated building from Section 1657A.5.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.28 (Relocated from 1657A.5.1.1, CBC 2001) – This section retains the requirements for period separation in base isolated building from Section 1657A.5.1.1 of the 2001CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.29 (Relocated from 1664A.1, CBC 2001) – This section retains the requirements for design review of base isolated building design from Section 1657A.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by the model code to a new section of the code to be consistent with the IBC format.

Section 1614A.1.30 – This section makes the requirements for use of non-linear time history analysis procedure uniform for all structures with damping devices.

Section 1614A.1.31 – This section will ensure uniformity in production testing for all buildings with damping devices.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 17 provisions:

**CHAPTER 17
STRUCTURAL TESTS AND SPECIAL INSPECTIONS**

Section 1702.1 – The section reference is revised to accommodate relocation of the 2006 IBC, Chapter 1 to Appendix as Chapter 1 for the 2007 CBC.

Section 1704.1 – The section references are revised to accommodate relocation of the 2006 IBC, Chapter 1 to Appendix as Chapter 1 for the 2007 CBC.

Section 1704.1.1 – The section reference is revised to accommodate relocation of the 2006 IBC, Chapter 1 to Appendix as Chapter 1 for the 2007 CBC.

Section 1704.4.2(Relocated from 1701.5.1.1, CBC 2001) – This section retains the requirement for keeping concrete placing record from the 2001 CBC, Section 1701.5.1.1. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704.6.2 (Relocated from 1701.5.16, CBC 2001) – This section retains the requirement for continuous inspection of manufactured truss and other assemblages from the 2001 CBC, Section 1701.5.16. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1711.1 – The section reference is revised to accommodate relocation of the 2006 IBC 2006 Chapter 1 to Appendix as Chapter 1 for the 2007 CBC.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 17A provisions:

**CHAPTER 17A
STRUCTURAL TESTS AND SPECIAL INSPECTIONS**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated and purpose and rationale stated.

Section 1701A.1 – The scope is revised by adding Sections 1701A.1.1 and 1701A.1.2 to clarify the application of Chapter 17A to OSHPD 1 and 4 facilities and to define acronyms for OSHPD facilities. Chapter 17A is based on the 2006 International Building Code (IBC), Chapter 17. To accommodate the substantial number of amendments for immediate occupancy structures in moderate to high seismic areas, amended Chapter 17A is created.

Section 1701A.4 (Relocated from 1701A.1.2, CBC 2001) – This section retains the requirement for the owner to retain special inspectors in addition to inspector(s) of record from the 2001 CBC, Section 1701A.1.2. Part of the text is the original 1997 UBC language. This change is consistent with the 2006 IBC requirements. This change is required to refer to proper sections of CCR Title 24, Part 1, which also require appointment of Inspector(s) of Record.

Section 1702A.1 – The section reference is revised to accommodate relocation of the 2006 IBC 2006 Chapter 1 to Appendix as Chapter 1 for the 2007 CBC.

Section 1704A.1 – The section references are revised to accommodate relocation of the 2006 IBC, Chapter 1 to Appendix as Chapter 1 for the 2007 CBC.

Section 1704A.1.1 – The section references are revised to accommodate relocation of the 2006 IBC, Chapter 1 to Appendix as Chapter 1 for the 2007 CBC. Also, the exception provided for wood design under Section 2308 is removed since construction inspection is vital for immediate occupancy structures.

Section 1704A.1.2 (Relocated from 1701A.3.2, CBC 2001) – This section retains the requirements for an inspection report to include the requirements of CCR Title 24, Part 1 from Section 1701A.3.2. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.2.1 (Exception) – This section codifies current OSHPD practice of requiring special inspection in shop for certain materials or assemblies. This will be a relaxation of requirements from the 2001 CBC, which require the same special inspection in the shop as in the field for OSHPD 1 and 4 facilities.

Section 1704A.3.1.1 (Relocated from 2231A.5, CBC 2001) – This section retains the requirement for inspection of welding & welder qualifications from Section 2231A.5 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.3.2.1 (Relocated from 2231A.4, CBC 2001) – This section retains the requirements for significant steel structural detailed connections to be shop inspected when directed by enforcement agency from Section 2231A.4 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.3.2.2 (Relocated from 2231A.5, CBC 2001) – This section retains the requirement for inspection of steel welding for joist and joist girder fabrication at shop from Section 2231A.5 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.3.2.3 (Relocated from 2231A.5, CBC 2001) – This section retains the requirement for inspection of welds for light framed steel truss from Section 2231A.5 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.4 (Exception) – The waiver of special inspection requirements for concrete in the exception is deleted because it is inconsistent with current OSHPD practice and considered inappropriate for immediate occupancy structures in Seismic Design Categories D, E & F.

Table 1704A.4 (Relocated from 1701A.5.18, CBC 2001) – This table retains the requirements for inspection of post-installed anchor from Section 1701A.5.18 of the 2001 CBC. This change simply moves current standards, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.4.2 (Relocated from 1929A.12, CBC 2001) – This section retains the requirement for inspection of rebar welding & welder qualification from Section 1929A.12 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.4.3 (Relocated from 1929A.4, CBC 2001) – This section retains the requirement for inspection of the batch plant from Section 1929A.4 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.4.4 (Relocated from 1929A.5, CBC 2001) – This section retains the requirements for waiver of batch plant inspection from Section 1929A.5 of CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with IBC format.

Section 1704A.4.5 (Relocated from 1929A.9, CBC 2001) – This section retains the requirements for inspection of prestressed concrete Section 1929A.9 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.4.6 (Relocated from 1905A.7.1, CBC 2001) – This section retains the requirement for concrete pre-placement inspection from Section 1905A.7.1 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with IBC format.

Section 1704A.4.7 (Relocated from 1929A.7, CBC 2001) – This section retains the requirements for placing record for concrete from Section 1929A.7 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.5 (Exception) – The waiver for special inspection requirements in the exception for masonry is deleted because it is inconsistent with current OSHPD practice and considered inappropriate for immediate occupancy structures in Seismic Design Category D, E and F.

Section 1704A.5.1 – Empirically designed masonry is not permitted in OSHPD regulated facilities per Chapter 21 of the 2007 CBC. Requirements for special inspection of empirically designed masonry are deleted in this section. Also, the inspection requirements for Occupancy Categories II, III and IV are made uniform to ensure that there will be no uninspected masonry construction. For OSHPD, Occupancy Category II and III, this is limited to SNF and ICF's of Type V construction; hence this change may not have any impact.

Sections 1704A.5.2 and 1704A.5.3 - The inspection requirements for Occupancy Categories II, III and IV are made uniform to ensure uniformity in masonry construction. For OSHPD, Occupancy Category II and III, this is limited to SNF and ICF's of Type V construction; hence this change may not have any impact.

Table 1704A.5.1 (Relocated from 1701A.5.18, CBC 2001) – This table retains the requirements for inspection of post-installed anchors in masonry from Section 1705.5.18 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Table 1704A.5.3 (Relocated from 1701A.5.18, CBC 2001) – This table retains the requirements for inspection of post-installed anchors in masonry from Section 1705.5.18 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format. Also, requirement for masonry not permitted by OSHPD is deleted.

1704A.6: Section 1704A.6 – This amendment is required for consistency with section 1704A.6.2 & 1704A.6.3.

Section 1704A.6.2 (Relocated from 2337A.1 & 2337A.3, CBC 2001) – This section retains the requirements for inspection of wood structural elements and assemblies (e.g. glued laminated timber, manufactured trusses, etc.) from Sections 2337A.1 & 2337A.3 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.6.3 (Relocated from 2337A.2, CBC 2001) – This section retains the requirements for inspection of timber connectors from Section 2337A.2 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.7.1 (Relocated from 3301A.1, CBC 2001) – This section retains the requirements for inspection of soil fill from Section 3301A.1 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.8.1 (Relocated from 1809A.6, CBC 2001) – This section retains the requirements for pile observation from Section 1809A.6 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.9.1 (Relocated from 1809A.7.1, CBC 2001) – This section retains the requirements for pier observation From Section 1809A.7.1 of the 2001CBC. Terms which are not defined by IBC 2006 are deleted. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1704A.15 (Relocated from 1929A.10 & 1924A.11.2, CBC 2001) – This section retains the requirements for inspection of shotcrete from Sections 1929A.10 and 1924A.11.2 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with IBC format.

Section 1704A.16 (Relocated from 1701A.5.8, CBC 2001) – This section retains the requirements for inspection of reinforced gypsum concrete from Section 1701A.5.8 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1705A.3 (Exception) – This change is necessary to be consistent with the test, special inspection and observation plan required by Title 24, Part 1, of the California Building Standards Administrative Code.

Section 1707A.3 (Exception) – The waiver for special inspection requirements in the exception is deleted because it is inconsistent with current OSHPD practice and considered inappropriate for immediate occupancy structures in Seismic Design Category D, E and F.

Section 1707A.7 (Exception) – The waiver for special inspection requirements in the exception is deleted because it is inconsistent with current OSHPD practice and considered inappropriate for immediate occupancy structures in Seismic Design Category D, E and F.

Section 1704A.10 (Relocated from 1664A.3, CBC 2001) – This section retains the requirement for inspection of prototype and production testing of isolator units and energy dissipation devices that are part of the seismic isolation system from Section 1664A.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1708A.1.1 – Empirically designed masonry is not permitted in OSHPD regulated facilities per Chapter 21A of the 2007 CBC. The requirement for special inspection of empirically designed masonry is deleted in this section to be consistent with Chapter 21A. The inspection requirements for Occupancy Categories II, III and IV are made uniform to ensure uniformity in masonry construction. For OSHPD, Occupancy Categories II and III are limited to SNF and ICF's of Type V construction; hence this change may not have any impact.

Section 1708A.1.2 – Empirically designed masonry is not permitted in OSHPD regulated facilities per Chapter 21A of the 2007 CBC. The requirement for special inspection of empirically designed masonry is deleted in this section to be consistent with chapter 21A. Also, inspection requirements for masonry construction in Occupancy Categories II, II and IV are made uniform. The inspection requirements for Occupancy Categories II, III and IV are made uniform to ensure uniformity in masonry construction. For OSHPD, Occupancy Categories II and III are limited to SNF and ICF's of Type V construction; hence this change may not have any impact.

Table 1708A.1.2 and 1708A.1.4 – Reference to AAC masonry is deleted since they are not permitted by Chapter 21A.

Sections 1708A.1.3 and 1708A.1.4 - The inspection requirements for Occupancy Categories II, III and IV are made uniform to ensure uniformity in masonry construction. For OSHPD, Occupancy Categories II and III are limited to SNF and ICF's of Type V construction; hence this change may not have any impact.

Section 1709A.2 (Relocated from 1702A.2, CBC 2001) – This section retains the requirement for structural observation of all OSHPD regulated facilities from Section 1702A.2 of the 2001 CBC. This is required by Item # 1 in Section 1709.2 of the 2006 IBC, change only simplify the code text.

Section 1709A.3 (Relocated from 1702A.2, CBC 2001) – This section retains the requirement for structural observation of all OSHPD regulated facilities from Section 1702A.2 of the 2001 CBC. This is required by Item # 1 in Section 1709.2 of the 2006 IBC, change only simplify the code text.

Section 1711A.1 – The section reference is revised to accommodate relocation of the 2006 IBC Chapter 1 to Appendix as Chapter 1 for the 2007 CBC.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 18 provisions:

**CHAPTER 18
SOILS AND FOUNDATIONS**

Section 1802.2 – The requirement for soil report is waived for small one story Type V building not located in Earthquake Fault Zones or Seismic Hazard Zones. This section codifies the current OSHPD practice of allowing wood-frame and light-steel-frame buildings less than 4000 square feet to be designed on the basis of presumptive soil bearing capacities provided in the building code.

Section 1802.6 (Relocated from 1804.8 / 1804.9, CBC 2001) – This section retains requirements for engineering geologic report / geotechnical & supplemental ground response report from CBC Sections 1804.8 & 1804.9. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1802.7 (Relocated from 1804.8, CBC 2001) – This section retains the requirements for engineering geologic report requirement from CBC Section 1804.8. References are revised to be consistent with current CDMG requirements. Requirement for submitting of geologic report prior to geotechnical and supplemental ground response report is deleted to be consistent with current OSHPD practice. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1802.8 (Relocated from 1804.9, CBC 2001) – This section retains the requirement for geotechnical & supplemental ground response report from CBC Section 1804.9. References are revised to be consistent with CDMG requirements. Requirement for submitting of geotechnical report prior to supplemental ground response report is deleted to be consistent with current OSHPD practice. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1807.4.3 – This section refers to the International Plumbing Code for drainage system design. The OSHPD is proposing to replace the reference to the International Plumbing Code with the California Plumbing Code. California Plumbing Code is proposed to be based upon the Uniform Plumbing Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Plumbing Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Plumbing Code would apply.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 18A provisions:

**CHAPTER 18A
SOILS AND FOUNDATIONS**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 18A to a chapter other than Chapter 18A are shown in the relocated chapters

Section 1801A.1 – The scope is revised by adding sections 1801A.1.1 and 1801A.1.2 to indicate application of Chapter 18A to OSHPD 1 and 4 facilities. Chapter 18A is based on Chapter 18 of the 2006 IBC. To accommodate substantial number of amendments for immediate occupancy structures in moderate to high seismic areas, amended chapter 18A is created.

Requirements for grading to comply with Appendix Chapter J have been retained from CBC 2001 Section 1801A.1.1. Part of the text is the original 1997 UBC 1997 language. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1802A.1 (Relocated from 1804A.1, CBC 2001) – This section retains the requirements for geotechnical investigation to be conducted under the responsible charge of a California registered geotechnical engineer from Section 1804A.1 of the 2001CBC. Enforcement agency approval requirement from several sections of Chapter 18A of CBC is replaced by an overall enforcement agency approval requirement in this section. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1802A.2 – The requirements for soil report is waived for small one story Type II or V Building not located in earthquake fault zones or seismic hazard zones. This section codifies the current OSHPD practice of allowing buildings less than 4000 square feet to be designed on the basis of presumptive soil bearing capacities provided in the building code. Also, use of available geotechnical report from adjacent area is prohibited because it is considered inappropriate for OSHPD regulated facilities, which are designed for immediate occupancies after major earthquake.

Section 1802A.2.1 – Editorial.

Section 1802A.2.3 – The soil report waiver provision is deleted because it is considered inappropriate for immediate occupancy facilities.

Section 1802A.2.4 – Editorial.

Section 1802A.2.6 – Editorial.

Section 1802A.2.7 – Exception is clarified so that site specific study is not required when exception is used, which is the intent of the exception.

Section 1802A.2.8 (Relocated from 1804A.3.8, CBC 2001) – This section retains the requirements for evaluating affect of high sulfate soil on durability of concrete from CBC Section 1804A.3.8. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1802A.4.1 (Relocated from 1804A.2 of the CBC 2001) – This section retains the requirement for minimum number of borings for soil investigation from CBC Section 1804A.2. Requirements of CBC 2001 that is already covered by IBC Chapter 18 is deleted. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1802A.6 (Relocated from 1637A, CBC 2001) – This section retains the requirements for geologic report / geotechnical & supplemental ground response report from CBC Section 1637A with minor amendments. References are revised to be consistent with current CDMG requirements. Requirement for submitting of geologic and geotechnical reports in multiple stages is deleted to be consistent with current OSHPD practice. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1802A.7 (Relocated from 1804A.1, 1804A.3 & 1637A.2.1.1, CBC 2001) – This section retains the requirements for engineering geologic report & addressing stepped footing effect from CBC Sections 1804A.1, 1804A.3 & 1637A. Requirement of CBC 2001 that is already covered by IBC 2006 Chapter 18 is deleted. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1805A.1 (Relocated from 1806A.4, CBC 2001) – This section retains the requirement for steps in continuous footings from CBC Section 1806A.4. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section_1805A.4.1 (Relocated from 1806A.2, CBC 2001) – This section retains the provision that enforcement agency may require analysis of footing when appropriate to evaluate their effect on superstructure from Section 1806A.2 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Table 1805A.4.2 (Relocated from Table 18A-I-C, CBC 2001) – The table retains the prohibition on use of isolated footing to support interior bearing wall without proper calculations from CBC Table 18A-I-C. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1805A.4.2.3 – Plain concrete footing is not permitted to be consistent with Chapter 19A. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1805A.4.2.6 (Relocated from 1806A.2, CBC 2001) – This section retains the requirements for increasing footing sizes when cast directly against soil from Section 1806A.2 of the 2001 CBC 2001. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1805A.4.3 – Masonry unit footings are not commonly used in California Hospitals. There is not enough data on the performance of masonry footing in actual seismic event or cyclic testing to justify their use in immediate occupancy structure.

Section 1805A.4.5 – Timber footings are not commonly used in California Hospitals. There is not enough data on the performance of masonry footing in actual seismic event or cyclic testing to justify their use in immediate occupancy structure.

Section 1805A.4.6 – Wood foundations are not commonly used in California Hospitals. There is not enough data on the performance of masonry footing in actual seismic event or cyclic testing to justify their use in immediate occupancy structure.

Section 1805A.4.7 (Relocated from 1806A.11, CBC 2001) – This section retains the separation requirements for trenches & crossing requirements for pipes below footings from CBC Section 1806A.11. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1805A.5 (including Sub-Sections 1805.5.1 through 1805.5.5) – The prescriptive design of foundation walls based on presumptive soil properties is not permitted. For immediate occupancy structures in moderate or high seismic areas detailed design of foundation wall based on actual soil data is desirable. Seismic requirements in IBC Sections 1805.5 .5 / 1805.5.1.3 essentially prohibit use of tables in Section 1805A.5 for Seismic Design Categories D, E & F without proper design.

Section 1805A.5.6 – This section refers to section 2210A.4 for bolting or fastening of steel stud foundation plate for proper use of code.

Section 1805A.9 – Editorial.

Section 1806A.1 (Relocated from 1611A.6, CBC 2001) – This section retains the requirements for retaining walls from Section 1611A.6 of the 2001CBC 2001. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1806A.2 (Relocated from 1611A.13, CBC 2001) – This section retains the requirements for freestanding cantilever walls from Section 1611A.13 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1807A.2 – The reference to a wood foundation, which is not permitted by this chapter, is deleted to be consistency with the rest of the chapter.

Section 1807A.4.3 – This section refers to the International Plumbing Code for drainage system design. The OSHPD is proposing to replace the reference to the International Plumbing Code with the California Plumbing Code. California Plumbing Code is proposed to be based upon the Uniform Plumbing Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Plumbing Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Plumbing Code would apply.

Section 1808A.2.23.1 – This section deletes the reference to Section 1613 for determination of Seismic Design Category C, since it's not required due to the fact that only Seismic Design Categories D, E & F are allowed in OSHPD regulated facilities per Section 1613A.

Section 1808A.2.23.2 (Exception) – This section deletes the waiver for requirements of ACI 318 to provide ductile design in Seismic Design Categories D, E & F areas, because it is considered inappropriate for immediate occupancy structures in moderate to high seismic categories. Also, dwelling requirements are deleted since they are outside the scope of the Chapter.

Section 1808A.2.23.2.4 (Relocated from 1806A.8.1, CBC 2001) – This section retains the requirements for deformation compatibility of deep foundation with connected members from Section 1806A.8.1 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1809A.1 – This section prohibits the use of timber pile for immediate occupancy structure in Seismic Design Categories D, E & F. There is not enough cyclic test data or seismic performance data from past seismic events on the ductile behavior of Timber pile to concrete pile caps.

Section 1809A.2.2.2.1 – This section deletes the reference to Section 1613 for determination of Seismic Design Category C, since it's not required due to the fact that only Seismic Design Categories D, E & F are allowed in OSHPD regulated facilities per Section 1613A.

Section 1809A.2.3.2.1 – This section deletes the reference to Section 1613 for determination of Seismic Design Category C, since it's not required due to the fact that only Seismic Design Categories D, E & F are allowed in OSHPD regulated facilities per Section 1613A.

Section 1809A.2.3.2.2 – This section prohibits the use of inner & outer spiral to satisfy spiral reinforcement requirements. There is not enough cyclic test data or seismic performance data from past actual seismic event to justify splitting the spiral rebar.

Section 1810A.1.2.1 – This section deletes the reference to Section 1613 for determination of Seismic Design Category C, since it's not required due to the fact that only Seismic Design Categories D, E & F are allowed in OSHPD regulated facilities per Section 1613A.

Section 1810A.2 – The enlarged base pile is not used widely in California. Considering it as an alternate system will require design professional to submit a design criteria explaining the details.

Section 1810A.3.5 / 1810A.6.4.1 – Editorial.

Section 1810A.8.4.1 – The section reference is revised to accommodate relocation of Model Code Chapter 1 to Appendix as Chapter 1.

Section 1811A.4 – The splice between wood and steel / concrete pile is prohibited to be consistent with Section 1809A.1.

Section 1811A.8 – Plain concrete construction is prohibited to be consistent with Chapter 19A.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 19 provisions:

**CHAPTER 19
CONCRETE**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward are indicated and purpose and rationale stated.

Section 1908.1.10 – This section refers to Chapter 18 of the IBC for foundation design requirements. The OSHPD is proposing to replace the reference to the IBC with the CBC. While the CBC is proposed to be based upon the IBC, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the IBC proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IBC would apply.

Section 1908.1.12 – This section refers to the IBC for load combinations. The OSHPD is proposing to replace the reference to the IBC with the CBC. While the CBC is proposed to be based upon the IBC, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the IBC proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IBC would apply.

Section 1912.2 (Relocated from 1923.3.5, CBC 2001) – This section retains the requirements for testing of post installed anchors from Section 1923.3.5 of the 2001CBC 2001. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 19A provisions:

**CHAPTER 19A
CONCRETE**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward are indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 19A to a chapter other than Chapter 19A are shown in the relocated chapters.

Section 1901A.1 – The scope is revised by adding sections 1901A.1.1 and 1901A.1.2 to clarify application of Chapter 19A to OSHPD 1 and 4 facilities and to define acronyms for OSHPD facilities. Chapter 19A is based on the 2006 IBC, Chapter 19. To accommodate substantial number of amendments for immediate occupancy structures in moderate to high seismic areas, amended chapter 19A is created.

Section 1903A.1 – The reference to testing requirements in Section 1916A is added to ensure proper application of code requirements.

Section 1903A.3 (Relocated from 1903A.3.2.2, CBC 2001) – This section retains the requirements for aggregate reactivity test & remedial measures for reactive aggregates from Section 1903A.3.2.2 of the 2001 CBC. References have been revised to current ASTM standards. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1903A.4 (Relocated from 1903A.5.2, CBC 2001) – This section retains the requirements for chemical analysis of rebars to be welded when mill test report is not available from Section 1903A.5.2 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1903A.5 (Relocated from 1903A.6.6, CBC 2001) – This section retains the requirements for use of fly ash from Section 1903A.6.6 of the 2001 CBC. Reference to mix design methods B and C are deleted since they are used by ACI 318-05. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1905A.1.1 (Relocated from 1905A.1.3, CBC 2001) – This section retains the requirements for minimum concrete strength from Section 1905A.1.3 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format. Also, requirements to treat concrete with specified compressive strength higher than 8 ksi to be treated as an alternative system is added to prevent use of high strength concrete in critical lateral resisting system without proper understanding of their behavior. ACI is planning to publish a technical document to address high strength concrete, until that happens this provision will minimize their indiscriminate use. ACI 318 Section D.3.5 limits concrete compressive strength to 8000 psi for post-installed anchor strength calculations.

Section 1905A.2 (Relocated from 1905A.3.3.2.7, CBC 2001) – This section retains the requirement for registered civil engineer to be responsible for selection of basic concrete proportions of the concrete mixes & testing be performed in an approved laboratory from Section 1905A.3.3.2.7 of the 2001 CBC. Revision of text is for clarifications only. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1905A.6.2 (Relocated from 1905A.6.1.3, CBC 2001) – This section retains the modified test frequency requirements from Section 1905A.6.1.3 of the 2001 CBC. Also, the waiver of concrete testing provided in exception is deleted to be compatible with requirements from Section 1905A.6.1.3 of the 2001 CBC. These changes simply move current standards, which are stricter than IBC to a new section of the code to be consistent with the IBC format.

Section 1905A.6.2.1 (Relocated from 1905A.6.1.1, CBC 2001) – This section retains the requirements for frequency of concrete strength test from Section 1905A.6.1.1 of the 2001 CBC. Part of the underlined text is the original 1997 UBC language. This change simply moves current standards, which are stricter than the IBC to a new section of the code to be consistent with the IBC format.

Section 1905A.8 (Relocated from 1905A.8.3, CBC 2001) – This section retains the requirement that no split sack batches be used for concrete mixing from Section 1905A.8.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1905A.10.1 (Relocated from 1905A.10.10, CBC 2001) – This section retains the requirement for adjusting concrete mixes to ensure proper consolidation of concrete from Section 1905A.10.10 of the 2001 CBC. Change in text is for clarifications only. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1905A.12 (Relocated from 1905A.12.4, CBC 2001) – This section retains the requirement for maintaining minimum temperature for concrete mixes in cold weather from Section 1905A.12.4 of the 2001 CBC. Terms Freezing or near Freezing weather which are not defined in ACI 318-05 is replaced by Cold Weather which is defined in ACI 318-05., This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1906A.2 (Relocated from 1906A.2.1, CBC 2001) – This section retains the requirement for not removing forming and shoring before 12 hours from Section 1906A.2.1 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1906A.3.1 (Relocated from 1906A.3.13, CBC 2001) – This section retains the requirement for large openings be detailed on the structural plans from Section 1906A.3.13 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1906A.3.2 (Relocated from 1906A.3.14, CBC 2001) – This section retains the requirements for supporting pipes and conduits embedded in concrete from Section 1906A.3.14 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1906A.4 (Relocated from 1906A.4.3, CBC 2001) – This section retains the requirements for construction joints to be detailed on plans from Section 1906A.4.3 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1906A.4.1 (Relocated from 1906A.4.7, CBC 2001) – This section retains the requirement for horizontal concrete construction joint preparation from Section 1906A.4.7 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1907A.5.1 (Relocated from 1907A.5.5, CBC 2001) – This section retains the requirements for tolerances of pre-stressing tendons from Section 1907A.5.5 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1907A.7.1 (Relocated from 1907A.7.1, CBC 2001) – This section retains the requirement for concrete cover of tilt-up panels from Section 1907A.7.1 the 2001 CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1 – This section modifies ACI 318 Chapters 8 through 21. All requirements related to Seismic Design Categories A, B and C are deleted because OSHPD regulated facilities are restricted to Seismic Design Categories D, E & F per Section 1613A. Also, sections are renumbered to maintain sequence of ACI 318.

Section 1908A.1.1 (Relocated from 1908A.11.5, CBC 2001) – This section retains the requirement that permanent burned clay not be used as a structural element from Section 1908A.11.5 of the 2001 CBC 2001. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.2 (Relocated from 1908A.11.6, CBC 2001) – This section retains the requirements for minimum slab thickness and reinforcement from Section 1908A.11.6 of the 2001CBC. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.3 (Relocated from 1908A.11.9, CBC 2001) – This section retains the requirements for concrete bridging from Section 1908A.11.9 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.4 (Relocated from 1910A.5.3, CBC 2001) – This section retains the requirement that minimum reinforcement not be reduced for members resisting seismic loads from Section 1910A.5.3 of the 2001 CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.5 (Relocated from 1912A.14.3.6, CBC 2001) – This section retains the requirements for clearances and cover at welded and mechanical splice from Section 1912A.14.36 of the 2001 CBC 2001. This is original UBC 1997 language carried forward as an amendment. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with IBC format.

Section 1908A.1.6 – The technical paper by Mark Richie et. al. titled “Unbalanced Moment Resistance at Shear in Slab-Column Connections: Experimental Assessment”, ACI Structural Journal, February 2006 (Title no. 103-S09) showed that design per ACI Section 13.5.3.3 is unsafe & recommended removal of this section from code. Since ACI 318 committee has not acted on this recommendation yet, this section is essentially placed on hold by this amendment.

Section 1908A.1.7 (Relocated from 1914A.2.6, CBC 2001) – This section retains the requirements for minimum rebar for anchoring walls from Section 1914A.2.6 of the 2001 CBC. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.8 (Relocated from 1914A.3.5, CBC 2001) – This section retains the requirements for locating upper and lower most rebars in wall from Section 1914A.3.5 of the 2001CBC. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.9 (Relocated from 1914A.3.8, CBC 2001) – This section retains the requirements for minimum rebar in precast walls from Section 1914A.3.8 of the 2001CBC. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.10 (Relocated from 1914A.5, CBC 2001) – This section retains the prohibition of design by empirical method from Section 1914A.5 of the 2001CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.11 (Relocated from 1914A.6.1, CBC 2001): – This section retains the requirements for minimum thickness of non-bearing walls from Section 1914A.6.1 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section1908A.1.12 (Relocated from 1914A.10, CBC 2001) – This section retains the requirement for foundation walls for wood frame or light steel buildings from Section 1914A.2.6 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.13 (Relocated from 1915A.2.1, CBC 2001) – This section retains the provision for converting working load to factored load from Section 1915A.2.1 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.14 (Relocated from 1915A.2.2.2, CBC 2001) – Clarification for loads to be working level for this section have been retained from Section 1915A.2.2.2 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with IBC format.

Section 1908A.1.15 (Relocated from 1915A.8.3.2, CBC 2001) – This section retains the requirements for connections between precast walls and supporting members from Section 1915A.8.3.2 of the 2001 CBC. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.16 (Relocated from 1916A.3.3, CBC 2001) – This section retains the requirements for architectural nonbearing, nonshear panels from Section 1916A.3.3 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.17 (Relocated from 1916A.11, CBC 2001) – This section retains the requirement for minimum rebar and design forces for precast walls from Section 1916A.11 of the 2001 CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.18 (Relocated from 1916A.12, CBC 2001) – This section retains the requirement for on-site cast precast wall panels from Section 1916A.12 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.19 (Relocated from 1917A.5.1.1, / 5.1.2, CBC 2001) – This section retains the requirements for full transfer of horizontal shear in a composite member from Section 1916A.5.11 and 1916.5.1.2 of the 2001 CBC. This is the original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.20 (Relocated from 1918A.2.3.2, CBC 2001) – This section retains the requirements for connections to be analyzed per PCI Design Handbook from Section 1918A.2.3.2 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section1908A.1.21 (Relocated from 1918A.2.4.2, CBC 2001) – This section retains the requirements for analysis of restrained prestressed concrete members per PCI Design Handbook from Section 1918A.2.4.2 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.22 (Relocated from 1918A.2.7, CBC 2001) – This section retains the requirement for span to depth ratios for prestressed members from Section 1918A.2.7 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.23 (Relocated from 1918A.6.4, CBC 2001) – This section retains the provision for presumptive loss of pre-stress from Section 1918A.6.4 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.24 (Relocated from 1918A.9.2.2, CBC 2001) – This section retains the requirement for one-way, unbounded, posttensioned slab from Section 1918A.9.2.2 of the 2001 CBC. This is the original 1997 UBC language carried forward as an amendment. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.25 (Relocated from 1918A.9.2.3, CBC 2001) – This section retains the provision of spacing limitation of bonded reinforcement not applicable to unbonded tendon from Section 1918A.9.2.3 of the 2001 CBC. This is original 1997 UBC language carried forward as an amendment. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.26 (Relocated from 1918A.12.7, CBC 2001) – This section retains the requirements for opening in flat plates from Section 1918A.12.7 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.27 (Relocated from 1918A.19.5, CBC 2001) – This section retains the requirements for prequalification of anchorages and coupler from Section 1918A.19.5 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.28 (Relocated from 1918A.21, CBC 2001) – This section retains the requirements for prestressed flat slab have Section 1918A.21 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.30 (Relocated from 1921A.2.1.2, CBC 2001) – This clarification for applicability of the section from Section 1921A.2.1.2 of the 2001 CBC. This is original 1997 UBC language carried forward as an amendment. This change simply moves current standard, to a new section of the code to be consistent with the IBC format.

Section 1908A.1.33 (Relocated from 1921A.2.5.5, CBC 2001) – This section retains the prohibition on using shear strength provided by prestressing tendons from Section 1921A.2.5.5 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.34 (Relocated from 1921A.4.4.1, CBC 2001) – This section retains the requirements for providing additional transverse reinforcing for columns when point of contraflexure in not within the middle half of member clear height from Section 1921A.4.4.1 of the 2001 CBC. This is the original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.35 (Relocated from 1921A.4.4.7, CBC 2001) – This section retains the requirements for providing additional transverse reinforcing for columns when column strength is less than sum of shear strength of beams framing into the column from Section 1921A.4.4.7 of the 2001 CBC. This is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.36 (Relocated from 1921A.5.4.5, CBC 2001) – This section retains the requirements for splice length adjustment of rebar from Section 1921A.5.4.5 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.37 (Relocated from 1921A.6.6.4, CBC 2001) – This section retains the requirements for providing additional bar at shear wall edges and minimum rebar at openings from Section 1921A.6.2.2 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.38 (Relocated from 1921A.6.6.3.2, CBC 2001) – This section retains the requirements for wall with heavy axial loads not contributing to resistance of earthquake loads from Section 1921A.6.6.3.2 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.41 (Relocated from 1921A.6.12, CBC 2001) – This section retains the requirements for minimum thickness of collector and boundary elements from Section 1921A.6.12 of the 2001 CBC. This is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.42 (Relocated from 1921A.6.2.2, CBC 2001) – This section retains the requirements for minimum rebar at edges and openings from Section 1921A.6.6.4 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1908A.1.43 – This section refers to the IBC for foundation design per Chapter 18A. The OSHPD is proposing to replace the reference to the IBC with the CBC. While the CBC is proposed to be based upon the IBC, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the IBC proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IBC would apply.

Section 1908A.1.45 – This section refers to the IBC for load combinations. The OSHPD is proposing to replace the reference to the IBC with the CBC. While the CBC is proposed to be based upon the IBC, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the IBC proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IBC would apply.

Section 1908A.47 – The reference to Seismic Design Category C is deleted, since it is not permitted by OSHPD per Chapter 16A. Exception for non-structural component anchor is necessary for consistency between ASCE 7-05 Section 13.4.2 and this Section. This is one of the changes approved by International Building Code – Structural Code Committee for 2006/2007 code development cycle.

Section 1909A.1(Relocated from 1922A.1, CBC 2001) – This section retains the requirement that plain concrete not be used in structural design other than for fill from Section 1922A.1 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1912A.1 – Editorial.

Section 1913A.1 (Relocated from 1924A.1, CBC 2001) – This section retains the general requirements for shotcrete from Section 1924A.1 of the 2001CBC 2001. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1913A.7 (Relocated from 1924A.7, CBC 2001) – This section retains the requirements for removing laitance at shotcrete from Section 1924A.7 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1913A.10 (Relocated from 1924A.10, CBC 2001) – This section retains the requirements for using ASTM standards for testing from Section 1924A.10 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1913A.10.2 (Relocated from 1924A.10, CBC 2001) – This section retains the requirements for prior approval by enforcement agency for test panel method from CBC 2001 Section 1924A.10. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1913A.11 (Relocated from 1924A.12, CBC 2001) – This section retains the requirements for using the same equipment used in testing in actual work unless approved otherwise by enforcement agency from Section 1924A.12 of the 2001 CBC. Part of the text is original UBC 1997 language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1913A.12 (Relocated from 1924A.13, CBC 2001) – This section retains the requirements for forms and ground wires for shotcrete from Section 1924A.13 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with IBC format.

Section 1913A.13 (Relocated from 1924A.14, CBC 2001) – This section retains the requirements for placing shotcrete per ACI 506 from Section 1924A.14 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1914A.1: Reinforced gypsum concrete is not usually used in the hospital buildings. No recent cyclic test data or performance data during actual seismic event is available for use of reinforced gypsum concrete. This system is made an alternative system.

Sections 1916A.1 through 1916A.7 (Relocated from 1929A, CBC 2001) – These sections retain the requirements for concrete testing from Section 1929A of the 2001 CBC. Language is revised as shown to be consistent with current OSHPD practice. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1916A.8 (Relocated from 1923A.3.5, CBC 2001) – This section retains the requirement for testing of expansion bolts and chemical anchors from Section 1923A.3.5 of the 2001 CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 1917A (Relocated from 1930A, CBC 2001) – This section retains the requirements for existing concrete structures from Section 1930A of the 2001 CBC. Section reference to Masonry is deleted because for strengthening existing unreinforced masonry is not there anymore. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 20 provisions:

**CHAPTER 20
ALUMINUM**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modifications to amendments being carried forward are indicated and purpose and rationale stated.

Section 2003.1(Relocated from 2004A.8, CBC 2001) – This section retains the requirements for inspection of aluminum from Section 2004A.8 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 21 provisions:

**CHAPTER 21
MASONRY**

Section 2107.4 – This section refers to the IBC for masonry materials. The OSHPD is proposing to replace the reference to the IBC with the CBC. While the CBC is proposed to be based upon the IBC, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the IBC proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IBC would apply.

Section 2113.11.1.2 – This section refers to the International Fuel Gas Code for flue lining systems. The OSHPD is proposing to replace the reference to the International Fuel Gas Code with the California Mechanical Code. The California Mechanical Code is based on Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fuel Gas Code would apply.

Section 2113.15 (Exception) – This section refers to the International Fuel Gas Code for flue lining systems. The OSHPD is proposing to replace the reference to the International Fuel Gas Code with the California Mechanical Code. The California Mechanical Code is based on Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fuel Gas Code would apply.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 21A provisions:

**CHAPTER 21A
MASONRY**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modifications to amendments being carried forward are indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 21A to a chapter other than Chapter 21A are shown in the relocated chapters.

Section 2101A.1 – The scope is revised by adding Sections 2101A.1.1 and 2101A.1.2 to clarify application of Chapter 21A to OSHPD 1 and 4 facilities and to define acronyms for OSHPD facilities. Chapter 21A is based on Chapter 21 of the 2006 IBC. To accommodate the substantial number of amendments for immediate occupancy structures in moderate to high seismic areas, amended Chapter 21A was created.

Section 2101A.2.2 – Section 2101.2.2 of the IBC does not allow Autoclaved Aerated Concrete (AAC) Masonry in seismic force resisting system in Seismic Design Category D, E and F. There is no cyclic test or past performance data to justify use of AAC masonry in non-load bearing walls of immediate occupancy structures subjected to seismic loads. Hence, AAC Masonry is not permitted for any application in OSHPD 1 and 4 facilities.

Section 2101A.2.3 – Prestressed masonry walls are not allowed in Seismic Design Category D, E and F per ASCE 7 Table 12.2-1. The amendment in this section simply ensures that requirement of ASCE 7 is followed.

Section 2101A.2.4 (Relocated from 2109A, CBC 2001) – This section retains the prohibition on empirical design of masonry from Section 2109A of the 2001CBC. This amendment ensures that limitations in Section 2109A.1.1.1 of the 2006 IBC 2006 will be enforced. This change simply moves current standard to a new section of the code to be consistent with the IBC format.

Section 2101A.2.5 (Relocated from 2110A .1, CBC 2001) – This section retains the restrictions on using glass unit masonry for non-bearing non-structural walls from Section 2110A.1 of the 2001CBC. This is a relaxation of prohibition on empirical design of Masonry per IBC 2006 section 2210. This change simply moves current standard to a new section of the code to be consistent with the IBC format.

Section 2102A.1 (Relocated from 2101A.3, CBC 2001 – This section retains the definition of hollow unit masonry wall from Section 2101A.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2103A.3 – This amendment is required to be consistent with Section 2101A.2.2.

Section 2103A.8 (Relocated from 2103A.3.1, CBC 2001) – This section retains the requirement for mortar to be limited to Type S, lime to be the last materials added to the mixer and aggregate to conform to ASTM C 144 from Section 2103A.3.1 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2103A.11 – This amendment is required to be consistent with Section 2101A.2.2.

Section 2103A.12 (Relocated from 2103A.4.2 / 2103A.4.3, CBC 2001) – This section retains the requirements for grout, proportioning, water and aggregate for grout from Sections 2103A.4.2 and 2103A.4.3 of the 2001CBC. Part of the text is the original 1997UBC language. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2103A.13.6 – This amendment is required to be consistent with Section 2101A.2.3.

Section 2103A.13.7 – This amendment is required to be consistent with Section 2101A.2.3.

Section 2103A.14 (Relocated from 2103A.5, CBC 2001) – This section retains the requirements for additive and admixtures for grout and mortar from Section 2103A.5 of the 2001CBC. Part of the text is the original 1997 UBC language which is carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2104A.1.2 – This amendment is required to be consistent with Section 2101A.2.2.

Section 2104A.1.2.5 (Relocated from 2110A.2, CBC 2001) – This section retains the requirements for treating mortar contact surfaces for adhesion from Section 2110A.2 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2104A.1.2.6 – This amendment is required to be consistent with Section 2101A.2.2.

Section 2104A.1.2.7 – This amendment is required to be consistent with Section 2104A.6.

Section 2104A.2 (Relocated from 2104A.4.5, 2001) – This section retains the requirements for corbelled masonry from Section 2104A.4.5 of the 2001 CBC 2001. This change simply moves current standards which is stricter than new model code to a new section of the code to be consistent with the IBC format.

Section 2104A.3.2.2 – This amendment is required to be consistent with Section 2101A.2.2.

Section 2104A.3.3.2 – This amendment is required to be consistent with Section 2101A.2.2.

Section 2104A.4.2.1 – This amendment is required to be consistent with Section 2101A.2.2.

Section 2104A.6 (Relocated from 2104A.6, 2001) – This section retains the requirements for grouted masonry from Section 2104A.6 of the 2001CBC 2001. Part of the text is original 1997UBC language that is required to make the 2001CBC amendments meaningful. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2104A.7 (Relocated from 2104A.7, CBC 2001) – This section retains the prohibition on use of aluminum equipment for handling grout from Section 2104A.7 of the 2001CBC. This is original 1997UBC language that is not being addressed by model code. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2105A.2.1 (Relocated from 2105A.3.0, CBC 2001) – This section retains the limitations on design compressive strength of masonry and associated test requirements from Section 2105A.3.0 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format. Also, requirement for AAC masonry, which is not permitted in OSHPD regulated facilities, is deleted.

Section 2105A.2.2 – The applicability of the section is clarified to accommodate limitations in Section 2105A.2.1. Also, requirement for AAC masonry, which is not permitted in OSHPD regulated facilities, is deleted.

Section 2105A.2.2.1.3 – Requirements for AAC masonry, which are not permitted in OSHPD regulated facilities, is deleted.

Section 2105A.2.2.1 – Requirements for using prism test method is clarified.

Section 2105A.2.2.2.2 (Relocated from 2105A.3.2, CBC 2001) – This section retains the requirement for masonry prism testing from Section 2105A.3.2 of the 2001 CBC. Part of the text is original 1997 UBC language. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2105A.2.2.3 (Relocated from 2105A.3.3, CBC 2001) – This section retains the requirement for compressive design strength verifications by masonry prism test record from Section 2105A.3.2 of the 2001CBC. Part of the text is original 1997 UBC language. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2105A.3 – The applicability of this section is clarified to accommodate the requirements of Sections 2105A.4 and 2105A.5.

Section 2105A.4 (Relocated from 2105A.3.1, CBC 2001) – This section retains the requirement for masonry core testing from Section 2105A.3.1 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section_2105A.5 (Relocated from 2105A.3.4, CBC 2001) – This section retains the requirements for mortar and grout testing from Section 2105A.3.4 of the 2001 CBC 2001. Part of the text is original 1997 UBC language. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2106A.1.1.1 – Ordinary plain prestressed masonry shear wall is not permitted per ASCE 7 Table 12.2-1 in Seismic Design Categories D, E and F, all OSHPD regulated facilities are in one of those categories. Amendment is required to ensure consistency with ASCE 7 for OSHPD regulated facilities.

Section 2106A.1.1.2 – Intermediate prestressed masonry shear wall is not permitted per ASCE 7 Table 12.2-1 in Seismic Design Categories D, E and F, all OSHPD regulated facilities are in one of those categories. Amendment is required to ensure consistency with ASCE 7 for OSHPD regulated facilities.

Section 2106A.1.1.3 – Special prestressed masonry shear wall is not permitted per ASCE 7 Table 12.2-1 in Seismic Design Categories D, E and F, all OSHPD regulated facilities are in one of those categories. Amendment is required to ensure consistency with ASCE 7 for OSHPD regulated facilities.

Section 2106A.5.3.1 (Relocated from 2106A.1.12.4 and 2104A.8, CBC 2001) – This section retains the requirements for minimum reinforcement in masonry walls from Sections 2104A.8 and 2106A.1.12.4 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2106A.5.3.2 (Relocated from 2103A.1.12.4, CBC 2001) – This section retains the requirements for minimum reinforcement in masonry columns from Section 2105A.1.12.4 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2106A.5.4 (Relocated from 2106A.1.7, CBC 2001) – This section retains the requirement for lateral support of masonry from Section 2105A.1.7 of the 2001CBC. Part of the text is original 1997 UBC language. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2107A.1.1 (Relocated from 2107A.1.4, CBC 2001) – Masonry design assumptions for allowable stress design have been retained from Section 2107A.1.4 of the 2001 CBC. This will prevent misuse of design requirements beyond their intended scope. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2107A.4 (Relocated from 2107A.1.5.3, CBC 2001) – This section retains the requirement for adjustment of anchor bolt capacities for edge distance and spacing from Section 2107A.1.5.3 of the 2001CBC. Part of the text is original 1997 UBC language. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2107A.4, IBC 2006 – The requirements for Seismic Design Categories A, B and C are deleted since only Seismic Design Categories D, E and F are permitted in OSHPD regulated facilities per Section 1613A.

Section 2107A.5 (Relocated from 2106A.2.14.1, CBC 2001) – This section retains the requirement for anchor bolt size and materials from Section 2106A.2.14.1 of the 2001 CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2107A.6 (Relocated from 2106A.2.7, CBC 2001) – This section retains the requirement for anchoring walls and columns and requirements for bearing of concentrated load on walls from Section 2106A.2.7 of the 2001 CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2107A.9 (Relocated from 2106A.2.3.3, CBC 2001) – This section retains the requirement for minimum thickness of masonry walls from Section 2106A.2.3.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2107A.2.10 (Relocated from 2107A.3, CBC 2001) – This section retains the practice of not permitting unreinforced masonry in OSHPD regulated facilities from Section 2107A.3 of the 2001 CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2107A.12 – The requirement for maximum reinforcement ratio is simplified and expanded to all reinforced masonry components for immediate occupancy structures in Seismic Design Category D, E and F facilities.

Section 2108A.1 (Exception) – This amendment is required to be consistent with Section 2101A.2.2.

Section 2108A.2 (Relocated from 2107A.3, CBC 2001) – This section retains the practice of not permitting unreinforced masonry in OSHPD regulated facilities from Section 2107A.3 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2108A.5 – This amendment is required to be consistent with Section 2106A.1.1.3.

Section 2109A (Relocated from 2109A, CBC 2001) – Section 2909.1.1 of the IBC prohibits use of empirical design in Seismic Design Categories D, E and F. This prohibition is consistent with requirements of Section 2109A of the 2001 CBC. Prohibited text is deleted from the amended Chapter 21A. Amendment simply deletes design requirements that are not permitted by IBC 2006.

Section 2110A.1 (Relocated from 2110A.1, CBC 2001) – This section retains the restriction on use of glass unit masonry for non-structural non-bearing walls only from Section 2110A.2 of the 2001 CBC. Part of the text is 1997 UBC language carried forward as an amendment. This change simply moves current standard to a new section of the code to be consistent with the IBC format.

Section 2111A.3 – The requirements for Seismic Design Categories A, B and C are deleted since they are not permitted by OSHPD per Section 1613A.

Section 2113A.5 (Relocated from 2104A.4.5, CBC 2001) – The requirements for corbelling defined in Section 2104A.2 are referenced to make all corbels design consistent. This will also make all corbel design consistent with requirements from Section 2104A.4.5 of the 2001 CBC.

Section 2113A.11.1.2 – This section refers to the International Fuel Gas Code for flue lining systems. The OSHPD is proposing to replace the reference to the International Fuel Gas Code with the California Mechanical Code. The California Mechanical Code is based on Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fuel Gas Code would apply.

Section 2113A.15 (Exception) – This section refers to the International Fuel Gas Code for Flue lining systems. The OSHPD is proposing to replace the reference to the International Fuel Gas Code with the California Mechanical Code. California Mechanical Code is based on Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to

the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fuel Gas Code would apply.

Section 2114A (Relocated from 2112A, CBC 2001) – This section retains the requirements for masonry non-bearing walls from Section 2112A of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2115A (Relocated from 2113A, CBC 2001) – This section retains the requirements for masonry screen walls from Section 2113A of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 22 provisions:

**CHAPTER 22
STEEL**

(This chapter is adopted without any amendments)

The specific purpose and rationale for the amendments in 2007 CBC Chapters 22A provisions:

**CHAPTER 22A
STEEL**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modifications to amendments being carried forward are indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 21A to a chapter other than Chapter 21A are shown in the relocated chapters.

Section 2201A.1 – The scope is revised by adding Sections 2201A.1.1 and 2201A.1.2 to clarify application of Chapter 22A to OSHPD 1 and 4 facilities and to define acronyms for OSHPD facilities. Chapter 22A is based on Chapter 22 of the 2006 IBC. To accommodate substantial number of amendments for immediate occupancy structures in moderate to high seismic areas, amended Chapter 22A was created.

Section 2204A.1.1 (Relocated from 2205A.10.2, CBC 2001) – This section retains the prohibition on adding welded splice unless shown on approved plans from Section 2205A.10.2 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2204A.1.2 (Relocated from 2205A.13, CBC 2001) – This section retains the requirements for using reduced shear strength for welded shear connector to transfer loads except for composite action from Section 2205A.13 of the 2001 CBC. Changes in the section are necessary to make the section consistent with new format of AISC 360. Also, requirement is clarified by permitted higher allowable strength when design force includes over strength factor or strength is justified by test data. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2204A.2.2 (Relocated from 2205A.12, CBC 2001) – requirements for incorporating affect of bending of anchor bolts when using oversized hole in the base plate have been retained from CBC 2001 section 2205A.12. Combined stress formula is deleted because it is provided in a different format in ACI 318-05, Appendix D. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with IBC format.

Section 2205A.1.1 (Relocated from 2209A.4, CBC 2001) – requirements for welds to be made prior to bolts are tensioned have been retained from CBC 2001 section 2209A.4. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with IBC format.

Section 2205A.2.1 – The requirements for Seismic Design Category A, B & C is deleted since they are not permitted by OSHPD per section 1613A.

Section 2205A.2.2 – The requirements for all steel structure to be designed per AISC 341 is added to make the requirement in AISC 341 compatible with ASCE Table 12.2-1 item # H. Also, according to AISC Seismic Design Manual, 2006 (Page # 1-9), system with R = 3 was not intended to be used for seismic design categories D, E & F.

Section 2205A.3.1 – The requirement for use of composite structure to be considered as an alternate system is added. Section as written in IBC will require approval by building official, change will require that a design criterion be pre-approved by OSHPD.

Section 2205A.4 – This section lists modifications to AISC 341. These modifications are intended to make AISC 341 requirements compatible with OSHPD goal of immediate occupancy after a major earthquake.

Section 2205A.4.1.1.1 (Relocated from 2211A.4, CBC 2001) – This section retains the requirements for steel special moment frame connections to have inelastic rotation capacity of 0.03 radians from Section 2211A.4 of the 2001CBC. Part of the language is original 1997 UBC language. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2205A.4.1.1.2 – This section refers to modifications to AISC 358.

Section 2205A.4.1.2 (Relocated from 2211A.5, CBC 2001) – This section retains the prohibition on use of intermediate steel moment frames from Section 2211A.5 of the 2001CBC. This make the prohibition on intermediate moment frame requirements in ASCE 7 Table 12.2 - 1 item # C.3 uniform for moderate and high seismic region for immediate occupancy buildings.

Section 2205A.4.1.3 (Relocated from 2211A.6, CBC 2001) – This section retains the prohibition on use of ordinary steel moment frames from Section 2211A.6 of the 2001CBC. This makes the prohibition on ordinary moment frame requirements in ASCE 7 Table 12.2 - 1 item # C.4 uniform for moderate and high seismic region for immediate occupancy buildings.

Section 2205A.4.1.4 (Relocated from 2211A.7, CBC 2001) – This section retains the prohibition on use of steel special truss moment frames from Section 2211A.7 of the 2001 CBC 2001. This change simply moves current standard to a new section of the code to be consistent with the IBC format.

Section 2205A.4.1.5 – The limitations on use of rectangular HSS is added for special concentrically braced frame. Recent tests at University of California, Berkeley by Patxi Uriz & Stephen Mahin have discovered that an HSS brace can be subject to premature fracture due to reduced net area when subjected to cyclic load at normally expected design displacement at first or second cycle. This limitation will ensure ductility for brace under cyclic load.

Section 2205A.4.1.6 – Ordinary steel concentric braced frame which has poor ductile behavior & is prohibited in immediate occupancy structure in moderate or high seismic categories except as permitted in Section 1614A for penthouse.

Section 2205A.4.1.7 – Waiver of testing for EBF permitted in exception to AISC 341 is deleted because it is considered inappropriate for immediate occupancy structure in moderate or high seismic categories.

Section 2205A.4.2.1(Relocated from 2211A.9.S3, CBC 2001) – This section retains the definition of inelastic rotation from Section 2211A.9.S3 of the 2001 CBC 2001 to be compatible with current measurement practice for rotation angle at OSHPD. Part of the text is original 1997 UBC language. This change simply moves current standard to a new section of the code to be consistent with the IBC format.

Section 2205A.4.2.2 (Relocated from 2211A.1, CBC 2001) – This section retains the definition of rapid strength degradation from Section 2211A.1 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2205A.4.2.3 (Relocated from 2211A.10, CBC 2001) – This section retains the limitations on size of the beam or link specimen for testing from Section 2211A.10 of the 2001CBC. This change simply moves current standards, which are more restrictive than model code to a new section of the code to be consistent with the IBC format.

Section 2205A.4.2.4 (Relocated from 2211A.12, CBC 2001) – This section retains the acceptance criteria to be based on two cycle of testing instead of one cycle permitted by AISC 341 from Section 2211A.12 of the 2001CBC. This change simply moves current standard, which is more restrictive than model code to a new section of the code to be consistent with the IBC format.

Section 2205A.4.3 – The limitation on variation of brace test specimen with prototype is limited to 20% consistent with current OSHPD practice instead of 50% shown in AISC 341. There is limited test data or past performance data based on actual earthquake event to justify 50% variation.

Section 2205A.5 – This section lists the modifications to AISC 358.

Section 2205A.5.1 – This section limits the use of Table 2.1 prequalified moment connections to the condition for which they were tested.

Section 2205A.5.2 – The requirements for enforcement agency approval for omission of beam bracing is added to avoid misuse of this requirement, where there are large openings next to a beam. In addition, minimum slab requirement is clarified.

Section 2206A.4 – The requirements for enforcement agency approval and seal / signature of engineer of record is added to be compatible with CCR Title 24, Part 1.

Section 2206A.6 (Relocated from 2205A.7.1, CBC 2001) – This section retains the requirement for joist chord bracing from Section 2205A.7.1 of the 2001CBC. This change simply moves current standard, which is more restrictive than model code to a new section of the code to be consistent with the IBC format.

Section 2209A.3 (Relocated from 2205A.4.1, CBC 2001) – This section retains the requirements for steel deck diaphragms from Section 2205A.4.1 of the 2001CBC. Part of the text deleted is inconsistent with IBC 2006 format. Also, requirements for weld washers is deleted because it is not commonly used in OSHPD regulated facilities and is not required for materials 20 gage or thicker. This change simply moves current standards, which are not addressed in model code to a new section of the code to be consistent with the IBC format.

Section 2206A.3 – The requirements for submission of engineering analysis, report and drawings for enforcement agency approval are added to be compatible with CCR Title 24, Part 1.

Section 2210A.5 (Relocated from 2219A.2, CBC 2001) – This section retains the prohibition on use of gypsum board as shear wall from Section 2219A.2 of the 2001 CBC. This change simply moves current standard, which is more restrictive than model code to a new section of the code to be consistent with the IBC format.

Section 2210A.6 – The prescriptive design using metal stud for dwellings and town houses is prohibited because residential construction do not fall under OSHPD jurisdiction and is not within the scope of Chapter 22A.

Section 2212A.1 through 2212A.4 (Relocated from 2231A, CBC 2001): – These sections retain the requirements for testing of steel from Section 2231A of the 2001CBC. This change simply moves current standards, which are not addressed in model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 23 provisions:

**CHAPTER 23
WOOD**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modifications to amendments being carried forward are indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 23 to a chapter other than Chapter 23 are shown in the relocated chapters.

Section 2301.1 – The scope is revised by adding Sections 2301.1.1, 2301.1.2 and 2301.1.3 to clarify application of Chapter 23 to OSHPD regulated facilities and to define acronyms for OSHPD facilities. Since the total numbers of amendments in Chapter 23 are very few, an amended Chapter 23A is not created similar to the 2001 CBC.

Section 2303.1.3.1 (Relocated from 2316A.2, CBC 2001) – This section retains the requirement for construction document to show detailed requirements for structural glue laminated timber from Section 2316A.2 of the 2001CBC. This amendment also clarify requirement per reference standards. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2303.4.1.2 (Exceptions) – This change is required to satisfy the requirements of California Code of Regulations (CCR), Title 24, Part 1, Section 7-115 which requires that structural plans and specifications or reports shall be prepared and signed by a structural engineer.

Section 2303.4.3 (Relocated from 2318A.7, CBC 2001) – This section retains the requirements for construction document to show details for wood trusses from Section 2318A.7 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2304.3.4 (Relocated from 2320A.6 and 2320A.11.9, CBC 2001) – This section retains the requirement for providing engineering analysis to justify design & details for sill plate from Sections 2320A.6 and 2320A.11.9 of the 2001CBC. The text is revised to match requirements with current design practice. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2304.4.1(Relocated from 2320A.8 and 2320A.12.1, CBC 2001) – This section retains the requirements for providing engineering analysis to justify design & limitations on notches and bored holes in framing from Sections 2320A.8 and 2320A.12.1 of the 2001 CBC. The revisions to text are for clarifications only. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2304.5 – This section refers to the International Mechanical Code for distance from source of fire to combustible framing. The OSHPD is proposing to replace the reference to the International Mechanical Code with the California Mechanical Code. The California Mechanical Code is proposed to be based upon the Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Mechanical Code would apply.

Section 2304.9.1.1 (Relocated from 2318A.3.4, CBC 2001) – This section retains the requirement for coating fasteners from Section 2318A.3.4 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2304.11.2.2 (Exception, Relocated from 2306A.4, CBC 2001) – This section retains the requirement for minimum height of sill plate above slab at exposed exterior walls from Section 2306A.4 of the 2001 CBC. The text is revised to be consistent with current design practice. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2304.11.2.4.1 (Exception, Relocated from 2306A.4, CBC 2001) – This section retains the requirement for concrete curb around shower or toilet from Section 2306A.4 of the 2001CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2305.1.7 – Changes in this section is required to make SDPWS consistent with requirements of the 2007 CBC.

Section 2305.2.4.2 (Relocated from 2315A.3.3, CBC 2001): – This section retains the requirements for wood structural panel sheathing used for diaphragms and shear walls that are part of seismic force resisting system to be applied directly to framing members from Section 2315A.3.3 of the 2001CBC 2001. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Table 2306.4.1 (Foot note m) – This amendment is required to ensure consistency with Section 2305.2.4.2.

Section 2306.4.5 (Relocated from 2513, CBC 2001): – This section retains the prohibition on use of lath, plaster or gypsum board from Section 2513 of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2308.2.8 (Relocated from 2320A.1, CBC 2001): – This section retains the requirement that engineering analysis be provided when using conventional light-frame construction from Section 2320A of the 2001CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 24 provisions:

**CHAPTER 24
GLASS AND GLAZING**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 24 to a chapter other than Chapter 24 are shown in the relocated chapters.

Section 2403.1.1 (Relocated from 2402a, CBC 2001) – This section retains the requirements for labeling safety glass in hazardous locations from Section 2402a of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2403.2.1 (Relocated from 2404.1a, CBC 2001) – This section retains the requirement for minimum laps and edge clearance for glass from Section 2404.1.a of the 2001CBC 2001. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2403.6 (Relocated from 2403, CBC 2001) – This section retains the requirement for glazing materials from Section 2403 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2406.1.5 (Relocated from 2406.1, CBC 2001): – This section retains the requirement for glazing subjected to human impact in specific hazardous locations from Section 2406.1 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in the 2007 CBC Chapter 25 provisions:

**CHAPTER 25
GYPSUM BOARD AND PLASTER**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 25 to a chapter other than Chapter 25 are shown in the relocated chapters.

Section 2501.2 (Relocated from 2501A.1, CBC 2001) – This section retains the details of expanded scope of the chapter covering walls and ceilings from Section 2501A.1 of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2503.1 – The section reference is revised to accommodate relocation of Chapter 1 of the 2006 IBC to Appendix as Chapter 1 for the 2007 CBC.

Section 2503.2 (Relocated from 2501A.2, / 2501A.3, CBC 2001) – This section retains the requirements for keeping lath or gypsum wall boards to be accessible for inspection by inspector of record / special inspector and giving enforcement agency authority to require testing when appropriate from Sections 2501A.2 and 2501A.3 of the 2001CBC 2001. Part of the text is original UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2504.2 (Relocated from 2503A.1 / 2504A.1,CBC 2001) – This section retains the requirement for designing vertical and horizontal assemblies of gypsum board, lath and plaster per relevant chapters of CBC from Section 2503A.1 and 2504A.1 of the 2001CBC. Part of the text is 1997 UBC language carried forward. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2504.2.1(Relocated from 2504A.2, CBC 2001) – This section retains the requirement for wood furring strip connections from Section 2504A.2 of the 2001CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2505.3 (Relocated from 2513A, CBC 2001) – This section retains the prohibition on use of gypsum board, lath and plaster over wood or light steel framing as shear wall from Section 2513A of the 2001CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2506.2.1.1 – This section refers to Section 1614A for modifications to ASCE 7 requirements for acoustical and lay-in panel ceilings.

Section 2507.3 (Relocated from 2505A.3 and 2506A.5, CBC 2001): – This section retains the requirements for lath attached to horizontal wood support from Sections 2505A.3 and 2506A.5 of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 2508.5.6– The requirements for designing connection between gypsum board diaphragm and vertical lateral load resisting system is added for safe design.

Section 2510.7.1(Relocated from 2508A.8, CBC 2001): – This section retains the requirement for cement plaster boding agent standard for preparation of masonry or concrete surfaces from Section 2508A.8 of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale of each adoption, amendment, or repeal for structural chapters is as follows:

**CHAPTER 26
PLASTIC**

(This chapter is adopted without any amendments)

The specific purpose and rationale of each adoption, amendment, or repeal for structural chapters is as follows:

**CHAPTER 31
SPECIAL CONSTRUCTION**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

All amendments contained in the 2001 CBC, Chapter 31 are repealed.

(This chapter is adopted without any amendments)

The specific purpose and rationale for the amendments in 2007 CBC Chapters 33 provisions:

**CHAPTER 33
SAFEGUARDS DURING CONSTRUCTION**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

Amendments contained in the 2001 CBC are repealed except those shown in express terms. Where an entire amendment in a section or subsection is repealed they are shown as stricken through the section or subsection numbers. When amendments are carried forward the amended language are shown in the express terms and part of the text that is repealed are shown in strike-out. The first column of the adoption matrix shows which amendments are carried forward. The second column show where the amendment has been relocated to (by section). Any modification to amendments being carried forward is indicated and purpose and rationale stated. Amendments that are relocated from existing Chapter 33 to a chapter other than Chapter 33 are shown in the relocated chapters.

Section 3305.1 – This section refers to the International Plumbing Code for sanitary facilities provided during construction. The OSHPD is proposing to replace the reference to the International Plumbing Code with the California Plumbing Code. The California Plumbing Code is proposed to be based upon the Uniform Plumbing Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Plumbing Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Plumbing Code would apply.

Section 3307.2 (Relocated from 3301.2a, CBC 2001) – This section retains the requirements for protection of adjacent property from Section 3301.2a of the 2001 CBC. Part of the text is original 1997 UBC language carried forward as an amendment. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 3307.3 (Relocated from 3301.3, CBC 2001) – This section retains the requirements for protection of existing buildings from Section 3301.3 of the 2001 CBC 2001. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 34 provisions:

**CHAPTER 34
EXISTING STRUCTURES**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

All amendments contained in the 2001 CBC Chapter 34 are repealed.

Section 3401.3 – This section refers to the International Codes for alterations, repairs, additions and change of occupancy to existing structures. The OSHPD is proposing to replace the reference to the International Codes with the California Codes. California Codes are proposed to be based upon the International and Uniform Codes, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International and Uniform Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Codes would apply.

Section 3403.2.3.3 – Division VI-R of CBC 2001, which was a California developed standard for seismic retrofit, additions, alterations and repairs is replaced by a national standard, FEMA 356. Referenced standards in FEMA 356 have been replaced by standards in Chapter 35 of the 2007 CBC, so that new and existing building designs are based on the same materials standard. Testing, Inspection and Structural observation requirement for the new construction is adopted for retrofit too.

Section 3410.2 – The applicability date for the code is added as required by the 2006 IBC.

Section 3410.2.4 – The retrofitting of non-compliant building to a condition where it will still remain non-compliant is prohibited to be consistent with SB -1953. Retrofitting of non-compliant buildings is addressed in Sections 3411 through 3414.

Section 3410.3.2 – This section refers to the International Fire Code for alterations, repairs, additions and change of occupancy to existing structures. The OSHPD is proposing to replace the reference to the International Fire Code with the California Fire Code. The California Fire Code is proposed to be based upon the International Fire Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International Fire Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fire Code would apply.

Section 3410.6.7.1 – This section refers to the International Mechanical Code. The OSHPD is proposing to replace the reference to the International Mechanical Code with the California Mechanical Code. The California Mechanical Code is proposed to be based upon the Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Mechanical Code would apply.

Section 3410.6.8 – This section refers to the International Mechanical Code. The OSHPD is proposing to replace the reference to the International Mechanical Code with the California Mechanical Code. The California Mechanical Code is proposed to be based upon the Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Mechanical Code would apply.

Section 3410.6.8.1 – This section refers to the International Codes. The OSHPD is proposing to replace the reference to the International Codes with the California Codes. California Codes are proposed to be based upon the International and Uniform Codes, the amendment is necessary to ensure that the statutory code is

properly referenced and to ensure changes to the International and Uniform Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Codes would apply.

Section 3410.6.14 – This section refers to the International Fire Code. The OSHPD is proposing to replace the reference to the International Fire Code with the California Fire Code. California Fire Code is proposed to be based upon the International Fire Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International Fire Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fire Code would apply.

Section 3410.6.14.1 – This section refers to the International Fire Code. The OSHPD is proposing to replace the reference to the International Fire Code with the California Fire Code. California Fire Code is proposed to be based upon the International Fire Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International Fire Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fire Code would apply.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 34A provisions:

**CHAPTER 34A
EXISTING STRUCTURES**

Section 3401A.1 – The scope is revised to indicate application of Chapter 34A to OSHPD 1 and 4 facilities. Chapter 34A is based on Chapter 34 of the 2006 IBC, Chapter 16A of the 2001 CBC and FEMA 356. To accommodate substantial number of amendments for immediate occupancy structures in moderate to high seismic areas, amended Chapter 34A was created.

Section 3401A.3 – This section refers to the International Codes for alterations, repairs, additions and change of occupancy to existing structures. The OSHPD is proposing to replace the reference to the International Codes with the California Codes. California Codes are proposed to be based upon the International and Uniform Codes, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International and Uniform Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Codes would apply.

Section 3402A.1(Relocated from 1627A of the CBC 2001) – This section retains the definitions of various terms used in retrofitting existing structures from Section 1627A of the 2001 CBC 2001. Also, the definitions of structural and non-structural performance categories from CCR Title 24, Part 1 are referred. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 3403A.2.3.1 – The overstress due to seismic loads for additions to existing structures in immediate occupancy structures located at moderate to high seismic zones is limited to 5%. Model code provision permitting 10% overstress is considered excessive for immediate occupancy structures. This change will make new code consistent with current OSHPD practice using CBC 2001 & make the requirements uniform for additions and alterations.

Section 3403A.2.3.2 – The overstress due to seismic loads for alterations to existing structures in immediate occupancy structures located at moderate to high seismic zones is limited to 5%. Model code provision permitting 10% overstress is considered excessive for immediate occupancy structures. This change will make new code consistent with current OSHPD practice using CBC 2001& make the requirements uniform for additions and alterations.

Section 3403A.2.3.3 – Division VI-R of CBC 2001, which was a California developed standard for seismic retrofit, additions, alterations and repairs is replaced by a national standard, FEMA 356. Reference standards in FEMA 356 have been replaced by standards in CBC 2007 Chapter 35, so that new and existing building designs are based on same materials standard. Use of materials properties based on historical data is prohibited for immediate occupancy structures located in moderate to high seismic zones. Testing, Inspection and Structural observation requirement for the new construction is adopted for retrofit too.

Section 3406A.4 – The exception is deleted because it is outside the scope of Chapter 34A.

Section 3410A.2 – The applicability date for the code is added as required by the 2006 IBC 2006.

Section 3410A.2.4 – The repair and alteration to existing buildings incompatible with SB 1953 and CCR Title 24 Part 1 and 2 is prohibited.

Section 3410A.3.2 – This section refers to the International Codes for alterations, repairs, additions and change of occupancy to existing structures. The OSHPD is proposing to replace the reference to the International Codes with the California Fire Code. The California Fire Code is proposed to be based upon the International Fire Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International Fire Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fire Code would apply.

Section 3410A.6.7.1 – This section refers to the International Mechanical Code. The OSHPD is proposing to replace the reference to the International Mechanical Code with the California Mechanical Code. The California Mechanical Code is proposed to be based upon the Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform

Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Mechanical Code would apply.

Section 3410A.6.8 – This section refers to the International Mechanical Code. The OSHPD is proposing to replace the reference to the International Mechanical Code with the California Mechanical Code. The California Mechanical Code is proposed to be based upon the Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Mechanical Code would apply.

Section 3410A.6.8.1 – This section refers to International Codes. The OSHPD is proposing to replace the reference to the International Codes with the California Codes. The California Codes are proposed to be based upon the International and Uniform Codes, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International and Uniform Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Codes would apply.

Section 3410A.6.14 – This section refers to the International Fire Code. The OSHPD is proposing to replace the reference to the International Fire Code with the California Fire Code. The California Fire Code is proposed to be based upon the International Fire Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International Fire Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fire Code would apply.

Section 3410A.6.14.1 – This section refers to the International Fire Code. The OSHPD is proposing to replace the reference to the International Fire Code with the California Fire Code. The California Fire Code is proposed to be based upon the International Fire Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International Fire Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Fire Code would apply.

Section 3411A (Relocated from 1638A of the CBC 2001): – This section retains the requirement for additions, alterations, repairs and seismic retrofit to existing hospital buildings or structures from Section 1638A of the 2001 CBC. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 3412A (Relocated from 1640A of the CBC 2001) – This section retains the requirements for earthquake evaluation and retrofit of existing hospital buildings or structures from Section 1640A of the 2001CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 3413A.1 (Relocated from 1648A.1, CBC 2001) – This section retains the general requirements for seismic rehabilitation of buildings from Section 1640A of the 2001 CBC. This change simply moves current standards, which are not addressed by model code to a new section of the code to be consistent with the IBC format.

Section 3413A.2 – FEMA 356 has been modified to be compatible with Senate Bill (SB) 1953 requirements in CCR Title 24, Part 1, Chapter 6. In addition, FEMA 356 has been modified for immediate occupancy structures in moderate to high seismic risk areas consistent with current OSHPD practice.

Section 3413A.2.1 – Seismic Rehabilitation Process & objective is made compatible with CCR Title 24, Part 1.

Section 3413A.2.2 – Seismic Hazard requirements is made compatible with CCR Title 24, Part 1.

Section 3413A.2.3 – Data collection requirement for various structural performance categories in immediate occupancy buildings to be consistent with current OSHPD practice.

Section 3413A.2.4 – Limitations on use of Linear Procedures has been modified for various structural performance categories in immediate occupancy buildings to be consistent with current OSHPD practice.

Section 3413A.2.5 – Requirement for using non-linear dynamic analysis or modal pushover analysis procedure when higher mode effects are significant in immediate occupancy buildings is added to be consistent with current OSHPD practice.

Section 3413A.2.6 – Requirements for expected material properties to be obtained by test for immediate occupancy buildings is added to be consistent with current OSHPD practice.

Section 3413A.2.7 – Inconsistencies between Equations 3.5 and 3.6 are addressed consistent with current OSHPD practice.

Section 3413A.2.8 – Requirements for use of C_2 is clarified consistent with current OSHPD practice.

Section 3413A.2.9 – Prohibition on use of unreinforced masonry in moderate to high seismic regions is added to be consistent with new building requirements.

Section 3413A.2.10 – The use of V_y is clarified so that it is not used as a measure of deformability, which it is not intended for.

Section 3413A.2.11 – Requirements for use of C_2 is clarified consistent with current OSHPD practice.

Section 3413A.2.12 – Requirements for use of C_2 is clarified consistent with current OSHPD practice.

Section 3413A.2.13 – Drift limitation is added for linear procedure consistent with new building construction.

Section 3413A.2.14 – Requirements that primary components for immediate occupancy buildings shall satisfy primary component acceptance criteria is added.

Section 3413A.2.15 – Foundation strength and stiffness requirements are added to be consistent with new building.

Section 3413A.2.16 – Presumptive capacities are prohibited consistent with new buildings requirements.

Section 3413A.2.17 – Presumptive expected capacities are prohibited consistent with new buildings requirements.

Section 3413A.2.18 – Requirements for flexible base assumptions to be based upon soil strength evaluation is added to be consistent with current OSHPD requirements.

Section 3413A.2.19 – Requirements for considering seismic earth pressure when appropriate is added to be consistent with new buildings requirements.

Section 3413A.2.20 – Acceptance criteria for non-linear structural steel components is clarified.

Section 3413A.2.21 – Requirement for heavily loaded wall piers to be considered in design is added to be consistent with new buildings requirements.

Section 3413A.2.22 – Requirement for width of compression flange for shear wall and wall segments are clarified consistent with new buildings requirements.

Section 3413A.2.23 – The use of unreinforced masonry is prohibited consistent with new buildings requirements.

Section 3413A.2.24 – The use of unreinforced masonry is prohibited consistent with new buildings requirements.

Section 3413A.2.25 – The minimum shear reinforcement requirements in masonry wall is added to avoid unreinforced masonry shear walls.

Section 3413A.2.26 – The requirement for field verification to establish the expected strength and stiffness is added to be consistent with current OSHPD practice.

Section 3413A.2.27 – The requirement for field verification for component construction is added to be consistent with current OSHPD practice.

Section 3413A.2.28 – The requirement for using non-linear dynamic analysis to verify analysis for base isolated structure is added to be consistent with new building requirements.

Section 3413A.2.29 – The requirement for using non-linear dynamic analysis to verify analysis for base isolated structure is added to be consistent with new building requirements.

Section 3413A.2.30 – The requirement for enforcement agency approval for production testing is added to be consistent with new building requirements.

Section 3413A.2.31 – The requirement for enforcement agency approval for testing exemption is added to be consistent with new building requirements.

Section 3413A.2.32/33 – requirement for using non-linear dynamic analysis to verify analysis for structures with dampers is added to be consistent with new building requirements.

Section 3413A.2.34 – requirement for enforcement agency approval for production testing is added to be consistent with new building requirements.

Section 3413A.2.35 – Simplified rehabilitation procedure is prohibited to be consistent with new building requirements.

Section 3413A.2.36/37 – Seismic Rehabilitation scope & objective is made compatible with CCR Title 24, Part 1.

Section 3414A (Relocated from 1649A, CBC 2001): – This section retains the requirement for peer review from Section 1649A of the 2001CBC 2001. This change simply moves current standard, which is not addressed by model code to a new section of the code to be consistent with the IBC format.

The specific purpose and rationale for the amendments in 2007 CBC Chapters 35 provisions:

**CHAPTER 35
REFERENCED STANDARDS**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standard for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 2001 CBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

All amendments contained in the 2001 CBC Chapter 35 are repealed.

Chapter 35 – Proper references are added for amendments to International Building Code for adoption as the 2007 CBC.

The specific purpose and rationale for the amendments in 2007 CBC Appendix Chapters 1 provisions:

**APPENDIX CHAPTER 1
ADMINISTRATION**

Section 101.1, Appendix Chapter 1 – Editorial.

Section 101.4, Appendix Chapter 1 – This section refers to the International Codes for partial adoptions. The OSHPD is proposing to replace the reference to the International Codes with the California Code. The California Codes are proposed to be based upon the International and Uniform Codes, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International and Uniform Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Code would apply.

Section 101.4.7, Appendix Chapter 1 – OSHPD regulated facilities are exempt from California Energy Code requirements by statute.

Section 102.6, Appendix Chapter 1 – This section refers to the International Codes for legal occupancy of existing structures. The OSHPD is proposing to replace the reference to the International Codes with the California Code. The California Code is proposed to be based upon the International and Uniform Codes, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the International and Uniform Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended International Code would apply.

Section 103.3, Appendix Chapter 1 – This section refers to the International Property Maintenance Code (IPMC) for partial adoptions. The OSHPD is proposing to replace the reference to the IPMC with the California Mechanical Code. The California Mechanical Code is proposed to be based upon the Uniform Mechanical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the Uniform Mechanical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended IPMC would apply.

Section 104.11.3 – The proper reference for peer review is added for its potential use in evaluating an alternate means of compliance.

Section 107.3 – This section refers to the ICC Electrical Code for temporary power. The OSHPD is proposing to replace the reference to the ICC Electrical Codes with the California Code. The California Code is proposed to be based upon the National Electrical Code, the amendment is necessary to ensure that the statutory code is properly referenced and to ensure changes to the National Electrical Code proposed by OSHPD are applied and enforced. Without this amendment, the non-amended ICC Electrical Code would apply.

The specific purpose and rationale for the amendments in 2007 CBC Appendix J provisions:

**APPENDIX J
GRADING**

REPEAL OF EXISTING CALIFORNIA AMENDMENTS IN PART OR IN WHOLE THAT ARE NO LONGER NECESSARY:

The 2006 IBC uses reference standards for design and materials requirements with amendments rather than incorporating them into the building codes as was done in the 2001 CBC, which is based on the 1997 UBC. Since two code cycles (2000 & 2003) have passed between the 1997 UBC and the 2006 IBC, some of the design concepts and philosophies contained in the 2001 CBC have become obsolete or irrelevant. Repeal of California amendments for those sections where the 2001 CBC design concepts or philosophies become obsolete or irrelevant are not addressed explicitly.

All amendments contained in the 2001 CBC Appendix Chapter 33 are repealed.

Section J104.1 – The section reference is revised to accommodate relocation of Chapter 1 of the 2006 IBC 2006 to Appendix as Chapter 1 for the 2007 CBC.

Section J104.2 – The section reference is revised to accommodate relocation of Chapter 1 of the 2006 IBC to Appendix as Chapter 1 for the 2007 CBC.

Section J104.4 – The requirements of this section are not permitted to avoid conflict with requirements in Chapters 18 & 18A.

Section J105.2 – The section reference is revised to accommodate relocation of Chapter 1 of the 2006 IBC 2006 to Appendix as Chapter 1 for the 2007 CBC.

Section J107.5 – The requirements of this section is clarified to avoid conflict with requirements in Chapters 18 & 18A.

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

(Government Code Section 11346.2(b) (2) 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).)

International Building Code, 2006.

Minimum Design Loads for Buildings and Other Structures, ASCE 7-05.

Flood Resistant Design and Construction ASCE 24-05.

Building Code Requirements for Structural Concrete, ACI 318-05.

Guide to Shotcrete, ACI 506-05.

PCI Design Handbook, 6th Edition, PCI 120-04.

Aluminum Design Manual, 2005.

Building Code Requirements for Masonry Structures, ACI 530-05.

Specification for Masonry Structures, ACI 530.1-05.

Specification for Structural Steel Buildings, AISC 360-05.

Seismic Provisions for Structural Steel Buildings, AISC 341-05.

North American Specification for the Design of Cold Formed Structural Members, AISI 2001 with 2004 Supplements.

National Design Specification with Supplement, NDS-05.

Special Design Provisions for Wind and Seismic, SDPWS-05.

Guidelines for Seismic Restraint for Direct Hung Suspended Ceiling Assemblies, Seismic Zone 3-4, CISCA - 2004.

Prestandard and Commentary for the Seismic Rehabilitation of Buildings, FEMA – 356 (2000).

There is no technical, theoretical, and empirical study, report, or similar document that was not identified in the initial statement of reasons.

CONSIDERATION OF REASONABLE ALTERNATIVES

(Government Code Section 11346.2(b) (3) (A) requires a description of reasonable alternatives to the regulation and the agency's reason 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)

The alternative to these proposed regulations would be to leave regulations as they are. The alternative was rejected, since it would leave design requirements that are out dated from the current national standards.

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

(Government Code Section 11346.2(b) (3) (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. Include facts, evidence, documents, testimony, or other evidence upon which the agency relies to support an initial determination that the action will not have a significant adverse impact on business.)

There will be no overall adverse cost impact on small business.

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

(Government Code Section 11346.2(B)(4) requires the facts, evidence, documents, testimony, or other evidence on which the agency relies in to support an initial determination that the action will not have a significant adverse economic impact on business)

The regulations proposed will have no overall cost impact on business:

- 1) In most areas of California, seismic base shear will be less than what was under the 2001CBC except in areas close to known active earthquake faults, where base shear will be more or less equal. Since Seismic Design Category is dependent on spectral acceleration, soil type and occupancy category, individual sites can take advantage of all three factors instead of relying on seismic zones as in the 2001 CBC.
- 2) Component design forces will be smaller at higher elevations because of reduction in rate of increase of spectral acceleration with height provided in ASCE 7 Chapter 13. This change along with reduction in base shear can reduce component design forces significantly.
- 3) Non-Building structures are permitted to be non-ductile and non-redundant when designed for higher base shear. This may reduce the detailing cost in some circumstances.
- 4) Construction detailing requirements in materials standards will be more or less equivalent to the 2001 CBC requirements.
- 5) Inspection and testing requirements in the new code will be some what more stringent than what was in the 2001CBC.
- 6) Construction documentation requirements are clearly spelled out, this will add to the efforts in design document preparation in some cases.

DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS

(Government Code Section 113465.2(b)(5) 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. It is not the intent of this paragraph to require the agency to artificially construct alternatives or to justify why it has not identified alternatives)

These regulations do not duplicate or conflict with Federal Regulations.

MANDATE ON LOCAL AGENCIES OR SCHOOL DISTRICTS. (Pursuant to Government Code Section 11346.9(a) (2), if the determination as to whether the proposed action would impose a mandate, the agency shall state whether the mandate is reimbursable pursuant to Part 7 of Division 4. If the agency finds that the mandate is not reimbursable, it shall state the reasons for the finding(s))

The Office of Statewide Health Planning and Development has determined that the proposed regulatory action would not impose a mandate on local agencies or school districts.

OBJECTIONS OR RECOMMENDATIONS MADE REGARDING THE PROPOSED REGULATION(S). (Government Code Section 11346.9(a) (3))

45-DAY PUBLIC COMMENT PERIOD - COMMENTS RECEIVED BY OSHPD:

Comment #1 - OSHPD 02/06 Ware - Sections 1408.2 and 1408.2.1

Commenter: David Ware, Owens Corning

Mr. Ware proposed revisions to existing amendments in Section 1408.2 and Section 1408.2.1 as follows, which would add new amendment text to 1408.2 and repeal existing amendment text in 1408.2.1 (proposed revisions are indicated in double underline and double strike-out format):

Section 1408.2 Adhered Veneer. Units of tile, masonry, stone or terra cotta which exceed 5/8" (16 mm) in thickness and are greater than 15 psf, shall be applied as for anchored veneer where used over exitways or more than 20 feet in height above adjacent ground elevation.

Reason: The rationale for this proposed revision to 1408.2 is non-conformance with criteria #4 and #6 of the nine-point criteria. The existing amendment arbitrarily limits types of units based on size rather than structural integrity or weight. The applicable referenced standard ACI 530 limits the weight of adhered units to 15 psf.

Section 1408.2.1 Bond Strength and Tests. Veneer shall develop a bond to the ~~supporting element~~ backing of sufficient strength to provide a working shear stress of 50 psi (690 kPa) in accordance with ACI 530, Section 6.3.2.4.

~~Not less than two shear tests shall be performed for the adhered veneer between the units and the supporting element. At least one shear test shall be performed at each building for each 5,000 square foot (465 m²) of floor area or fraction thereof.~~

Reason: The rationale for this proposed revision to 1408.2.1 is non-conformance with criteria #6 and #7 of the nine-point criteria. Using building size criteria to determine the number of test samples is arbitrary, and should be based on surface area of veneer. Also, there is no reference given to a nationally recognized in-field test procedure.

OSHPD Response:

These public comments do not address OSHPD's proposed modifications to the existing amendments. At this time, OSHPD can not propose substantive modifications to the existing amendment as requested, as Government Code §11346.45 requires the proposing state agency to include all parties affected by a proposed code change during the code change development process, which concluded in May 2006. OSHPD will take this comment under consideration during a subsequent rulemaking cycle.

Comment #2 - OSHPD 02/06 Cherrier - Section 1704A.1

Commenter: Robert Cherrier, BSK Associates Inc.

Mr. Cherrier proposed revisions to Section 1704A.1 as follows, which would repeal model code text and add new amendment text regarding employment and qualification criteria of the project testing and inspection agency (proposed revisions are indicated in double underline and double strike-out format):

1704A.1 General. Where application is made for construction as described in this section, ~~the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under Section 1704A. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official,~~ the school district shall employ an approved testing and inspection firm. The approved firm must meet ASTM A329 including the requirement of a professional engineer with five years of material testing and inspection experience. The Quality Control Plan of the approved firm must ensure that only qualified inspectors are used. for inspection of the particular type of construction or operation requiring special inspection.

Reason: The rationale for this proposed revision to Section 1704A.1 is non-conformance with criteria #3 (public interest) of nine-point criteria. Often the agents of the school district are basing consultant selection on price only. The Field Act requires that public schools should be built to a higher standard. Therefore consultant selection should continue to be performed by the districts that are ensuring that a qualification based selection criteria is applied. The only way to ensure that the inspections are of the highest quality is to select an approved agency that subjects inspectors to the professional engineering supervision and control of a firm that meets ASTM E 329.

OSHPD Response:

This comment is directed at DSA-SS only & does not effect OSHPD's proposed amendments.

This public comment does not address OSHPD's proposed modifications to the model code language (Section 1704.1 of the 2006 edition *International Building Code*). At this time, OSHPD can not propose substantive modifications to the model code text as requested, as Government Code §11346.45 requires the proposing state agency to include all parties affected by a proposed code change during the code change development process, which concluded in May 2006. OSHPD will take this comment under consideration during a subsequent rulemaking cycle.

It should be noted that OSHPD has proposed a 15-day modification to Section 1704A.1 as follows (15 day modifications are indicated in double underline and double strike-out format):

1704A.1 General. Where application is made for construction as described in this section, the owner ~~or the registered design professional in responsible charge acting as the owner's agent~~ shall employ one or more special inspectors to provide inspections during construction on the types of work listed under Section 1704A. ...

Rationale: The purpose of the 15 day modification is to align Section 1704A.1 with Title 24, Part 1 requirements regarding special inspection. Title 24, Part 1 does not provide for employment of special inspectors by the design professional in responsible charge, and requires that the costs for special inspection by Owner.

Comment #3 - OSHPD 02/06 Cherrier - Section 1704A.3.1.1

Commenter: Robert Cherrier, BSK Associates Inc.

Mr. Cherrier proposed revisions to Section 1704A.3.1.1 as follows, which would repeal existing amendment text prescribing qualification criteria for welding inspectors (proposed revisions are indicated in double underline and double strike-out format):

1704A.3.1.1 Inspection of Welding.

...
~~The minimum requirements for a qualified welding inspector shall be as those for an AWS certified welding inspector (CWI), as defined in the provisions of the AWS QC1 – 1-96, Standard for AWS Certification of Welding Inspectors published by the American Welding Society. All welding inspectors shall be as approved by the enforcement agency. The qualified welding inspector shall possess certification from a recognized organization such as ICC, AWS, or the Canadian Welding Bureau or equal. The inspector shall be an employee of the approved project testing and inspection firm.~~
...

Reason: The rationale for this proposed revision is non-conformance with criteria #4 (arbitrary, unreasonable, capricious) of nine-point criteria. The State of California should not be endorsing one certification body over another in the building codes. Many other organizations such as ICC provide welding

inspection certification program that meets or exceeds the one developed by AWS. For example, the ICC certification includes a test on the building code while AWS does not. The inspector should be subject to the supervision and oversight of a professional engineer as required by ASTM E 329. The only way to ensure this important life safety issue is enforced is by having the welding inspector employed by the approved testing and inspection firm assigned to the project.

OSHPD Response:

This public comment does not address OSHPD's proposed modifications to the existing amendment. At this time, OSHPD can not propose substantive modifications to the existing amendment as requested, as Government Code §11346.45 requires the proposing state agency to include all parties affected by a proposed code change during the code change development process, which concluded in May 2006. OSHPD will take this comment under consideration during a subsequent rulemaking cycle.

Comment #4 - OSHPD 02/06 Cherrier - Section 1704A.3.1.1

Commenter: Robert Cherrier, BSK Associates Inc.

Mr. Cherrier proposed revisions to Section 1704A.3.1.1 as follows, which would repeal existing amendment text regarding methods of inspection/testing by the welding inspector (proposed revisions are indicated in double underline and double strike-out format):

1704A.3.1.1 Inspection of Welding.

...
~~The inspector shall use all means necessary to determine the quality of the weld. The inspector may use gamma ray, magnaflux, troypanning, sonics or any other aid to visual inspection which the inspector may deem necessary to be assured of the adequacy of the welding.~~

Reason: The rationale for this proposed revision is non-conformance with criteria #6 (ambiguous or vague, in whole or part) of nine-point criteria. "All means necessary" could have multiple interpretations and is completely arbitrary. The present code is not meant to be prescriptive about means and methods of completion. The non-destructive testing mentioned is under the complete control of the laboratory professional engineer and it is his or her determination if adequate testing has been performed. The means and methods of the welding inspection is assured by having the inspector work for an approved testing and inspection firm with the oversight and Quality Control Plans required by ASTM E 329.

OSHPD Response:

This public comment does not address OSHPD's proposed modifications to the existing amendment. At this time, OSHPD can not propose substantive modifications to the existing amendment as requested, as Government Code §11346.45 requires the proposing state agency to include all parties affected by a proposed code change during the code change development process, which concluded in May 2006. OSHPD will take this comment under consideration during a subsequent rulemaking cycle.

Comment #5 - OSHPD 02/06 C. Craig - Section 1704A.3.1.1

Commenter: Clifford Craig, Dynamic Consultants, Inc.

Mr. Craig proposed revisions to Section 1704A.3.1.1 as follows, which would repeal existing amendment text prescribing qualification criteria for welding inspectors (proposed revisions are indicated in double underline and double strike-out format):

1704A.3.1.1 Inspection of Welding.

...
~~The minimum requirements for a qualified welding inspector shall be as those for an AWS certified welding inspector (CWI), as defined in the provisions of the AWS QC1 - 1-96, Standard for AWS Certification of Welding Inspectors published by the American Welding Society. All welding inspectors shall be as approved by the enforcement agency.~~

Reason: The rationale for this proposed revision is non-conformance with criteria #4 (arbitrary, unreasonable, capricious) of nine-point criteria. The qualifications of the special inspector have been previously and adequately identified in section 1704A.1 and 1704A.3.1. It is not appropriate to set a minimum standard using a specific certification such as AWS-CWI. While there are other acceptable certification programs that can meet the criteria, it is not appropriate to set a minimum standard for qualifications of a special inspector in the code. It is more appropriate to let the code enforcement agency determine the qualifications needed to meet the evolving standard of practice.

The State of California should not be endorsing one certification body over another in the building codes. Even ASTM is abandoning this practice, due to the successful claims that it gives an unfair and unreasonable advantage to one or few organizations. ASTM is returning to using more generalized guidelines to define specific personnel qualification requirements. I would also submit that the supervising PE of an inspection agency should be allowed to determine the qualification of the special inspector under his/her supervision.

OSHPD Response:

This public comment does not address OSHPD's proposed modifications to the existing amendment. At this time, OSHPD can not propose substantive modifications to the existing amendment as requested, as Government Code §11346.45 requires the proposing state agency to include all parties affected by a proposed code change during the code change development process, which concluded in May 2006. OSHPD will take this comment under consideration during a subsequent rulemaking cycle.

Comment #6 - OSHPD 02/06 C. Craig - Section 1704A.3.1.1

Commenter: Clifford Craig, Dynamic Consultants, Inc.

Mr. Craig proposed revisions to Section 1704A.3.1.1 as follows, which would repeal existing amendment text prescribing methods of inspection/testing by the welding inspector (proposed revisions are indicated in double underline and double strike-out format):

1704A.3.1.1 Inspection of Welding.

...
~~The inspector shall use all means necessary to determine the quality of the weld. The inspector may use gamma ray, magnaflux, trowanning, sonics or any other aid to visual inspection which the inspector may deem necessary to be assured of the adequacy of the welding.~~

Reason: The rationale for this proposed revision is non-conformance with criteria #1 (conflict, overlap or duplication of other building standards) of nine-point criteria. The interpretation of "all means necessary" has always been difficult for the special inspector to determine and is now appropriately covered in Section 1705A.2.3. This section states "the registered design professional in responsible charge shall identify the type and extent of each type of special inspection and each test." This is where the responsibility should be and is consistent with the practice presently used in the city and county jurisdictions throughout California.

OSHPD Response:

This public comment does not address OSHPD's proposed modifications to the existing amendment. At this time, OSHPD can not propose substantive modifications to the existing amendment as requested, as Government Code §11346.45 requires the proposing state agency to include all parties affected by a proposed code change during the code change development process, which concluded in May 2006. OSHPD will take this comment under consideration during a subsequent rulemaking cycle.

Comment #7 - OSHPD 02/06 M. Craig - Section 1704A.3.1.1

Commenter: Michelle Craig, Dynamic Consultants, Inc.

Ms. Craig proposed revisions to Section 1704A.3.1.1 as follows, which would existing amendment text prescribing qualification criteria for welding inspectors (proposed revisions are indicated in double underline and double strike-out format):

1704A.3.1.1 Inspection of Welding.

...
~~The minimum requirements for a qualified welding inspector shall be as those for an AWS certified welding inspector (CWI), as defined in the provisions of the AWS QC1 - 1-96, Standard for AWS Certification of Welding Inspectors published by the American Welding Society. All welding inspectors shall be as approved by the enforcement agency.~~

Reason: The minimum qualification for a welding inspector has previously been addressed in two locations in the code - Sections 1704A.1 and 1704A.3.1. It is inappropriate for any building code to promote a specific certification when multiple programs are not only available, but also appropriate for demonstrating a minimum level of competence. None of the other code provisions pertaining to special inspection identify a specific certification program as a means of establishing competence. The method is appropriately left to the determination of the code enforcement official. These sentences are an unnecessary expansion of the previously noted requirements for demonstrating competence, and needlessly restrictive as presented.

OSHPD Response:

This public comment does not address DSA's proposed modifications to the existing amendment. At this time, OSHPD can not propose substantive modifications to the existing amendment as requested, as Government Code §11346.45 requires the proposing state agency to include all parties affected by a proposed code change during the code change development process, which concluded in May 2006. OSHPD will take this comment under consideration during a subsequent rulemaking cycle.

Comment #8 - OSHPD 02/06 Cherrier - Sections 1701A.5 and 1704A.1.2

Commenter: Robert Cherrier, BSK Associates Inc.

Mr. Cherrier proposed revisions to Section 1701A.5 and Section 1704A.1.2 to change the term "inspector of record" to "project inspector" as follows (proposed revisions are indicated in double underline and double strike-out format):

~~1701A.5~~ (Relocated from 1701A.1.1, CBC 2001) [For DSA-SS] In addition to the project inspector ~~inspector(s) of record~~ project inspector required by Title 24, Part 1, Section 4-333, ...

~~1704A.1.2~~ Report requirement. (Relocated from 1701A.3.2, CBC 2001) The inspector(s) of record ~~project inspector~~ and special ~~special~~ inspectors shall keep records of inspections. The ~~inspector of record~~ project inspector and special inspector shall furnish inspection reports...

Reason: The rationale for this proposed revision is non-conformance with criteria #1 (conflict, overlap or duplication of other building standards) of nine-point criteria. Title 24, Part 1 (Administrative Code), refers to (in multiple locations) the on-site insepctor for DSA projects as the "project inspector." The introduction of a new term "inspector of record" will cause confusion with other inspectors such as the special inspector.

OSHPD Response:

This comment is for DSA-SS amendments only & does not effect OSHPD's proposed amendments.

Comment #9 - OSHPD 02/06 Cherrier - Section 1701A.5

Commenter: Robert Cherrier, BSK Associates Inc.

Mr. Cherrier proposed revisions to Section 1701A.5 as follows, which would modify proposed amendment text regarding employment of special inspectors (proposed revisions are indicated in double underline and double strike-out format):

~~1701A.5~~ (Relocated from 1701A.1.1, CBC 2001) [For DSA-SS] In addition to the project inspector ~~inspector(s) of record~~ required by Title 24, Part 1, Section 4-333, ~~the school district owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors~~ school district shall employ an approved testing and inspection firm who shall provide inspections during construction on the types of work listed under Chapters 17A, 18A, 19A, 20, 21A, 22A, 23, 25, 34, and noted in the special test, inspection and observation plan required by Sections 4-335 of Title 24, Part 1, of the California Building Standards Administrative Code.

Reason: The rationale for this proposed revision to Section 1701A.5 is non-conformance with criteria #3 (public interest) of nine-point criteria. Often the agents of the school district are basing consultant selection on price only. The Field Act requires that public schools should be built to a higher standard. Therefore consultant selection should continue to be performed by the districts that are ensuring that a qualification based selection criteria is applied. The only way to ensure that the inspections are of the highest quality is to select an approved agency that subjects inspectors to the professional engineering supervision and control of a firm that meets ASTM E 329.

OSHPD Response:

This comment is for DSA-SS amendments only & does not effect OSHPD's proposed amendments.

Comment #10 - OSHPD 02/06 McDonnell - Sections 1701A.5 and 1704A.1.2

Commenter: Martha McDonnell, Youngdahl Consulting Group, Inc.

Ms. McDonnell proposed revisions to Section 1701A.5 and Section 1704A.1.2 to change the term "inspector of record" to "project inspector" as follows (proposed revisions are indicated in double underline and double strike-out format):

1701A.5 (Relocated from 1701A.1.1, CBC 2001) [For DSA-SS] In addition to the project inspector ~~inspector(s) of record~~ project inspector required by Title 24, Part 1, Section 4-333, ...

1704A.1.2 Report requirement. (Relocated from 1701A.3.2, CBC 2001) ~~The inspector(s) of record project inspector and special special~~ inspectors shall keep records of inspections. The ~~inspector of record project inspector and~~ special inspector shall furnish inspection reports...

Reason: The rationale for this proposed revision is non-conformance with criteria #1 (conflict, overlap or duplication of other building standards) of nine-point criteria. Title 24, Part 1 (Administrative Code), refers to (in multiple locations) the on-site insepctor for DSA projects as the "project inspector." The introduction of a new term "inspector of record" will cause confusion with other inspectors such as the special inspector.

OSHPD Response:

This comment is for DSA-SS amendments only & does not effect OSHPD's proposed amendments.

Comment #11 - OSHPD 02/06 McDonnell - Section 1701A.5

Commenter: Martha McDonnell, Youngdahl Consulting Group, Inc.

Ms. McDonnell proposed revisions to Section 1701A.5 as follows, which would modify proposed amendment text regarding employment of special inspectors (proposed revisions are indicated in double underline and double strike-out format):

1701A.5 (Relocated from 1701A.1.1, CBC 2001) [For DSA-SS] In addition to the project inspector ~~inspector(s) of record~~ required by Title 24, Part 1, Section 4-333, ~~the school district owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors~~ school district shall employ an approved testing and inspection firm who shall provide inspections during construction on the types of work listed under Chapters 17A, 18A, 19A, 20, 21A, 22A, 23, 25, 34, and noted in the special test, inspection and observation plan required by Sections 4-335 of Title 24, Part 1, of the California Building Standards Administrative Code.

Reason: The rationale for this proposed revision to Section 1701A.5 is non-conformance with criteria #3 (public interest) of nine-point criteria. Often the agents of the school district are basing consultant selection on price only. The Field Act requires that public schools should be built to a higher standard. Therefore consultant selection should continue to be performed by the districts that are ensuring that a qualification based selection criteria is applied. The only way to ensure that the inspections are of the highest quality is to select an approved agency that subjects inspectors to the professional engineering supervision and control of a firm that meets ASTM E 329.

OSHPD Response:

This comment is for DSA-SS amendments only & does not effect OSHPD's proposed amendments.

Comment #12 - OSHPD 02/06 Cherrier - Section 2105A.5

Commenter: Robert Cherrier, BSK Associates Inc.

Mr. Cherrier proposed revisions to Section 2105A.5 to change the referenced standard "ASTM C 109" to "UBC Historic Standard 21-16" as follows (proposed revisions are indicated in double underline and double strike-out format):

2105A.5 (Relocated from 2105A.3.4 Item #2, 2001 CBC) **Mortar and grout tests.**

...
~~Test specimens for mortar and grout shall be made as set forth in UBC Standards 21-16 and 21-18~~ ASTM C 409-UBC Historic Standard 21-16 and ASTM C 1019.

...

Note by commenter - An alternative would be to place directly in the section the language of UBC Standard 21-16. It is a very short standard.

Reason: The rationale for this proposed revision to Section 2105A.5 is non-conformance with criteria #6 (ambiguous or vague amendment text) of nine-point criteria. The referenced standard of ASTM C 109 is not applicable for sampling in field conditions. It is meant to be used under tightly controlled conditions of a laboratory. For example the specimens can only be molded between 68 and 79 degrees. This would

preclude constructing any masonry except on days that meet that condition. In addition, specimens must be immediately put in a moist room and the flow of the mortar (another laboratory test) must be adjusted for each set. ASTM C 109 was never designed to be used in the field for any kind of contract compliance. UBC Standard 21-16 is the only workable field mortar test.

OSHPD Response:

OSHPD concurs with the comment, and has proposed modifications to Section 2105A.5 in the 15 day public comment period as follows (15 day modifications are indicated in double underline and double strike-out format):

2105A.5 (Relocated from 2105A.3.4 Item #2, 2001 CBC) **Mortar and grout tests.** *These tests are to establish whether the masonry components meet the specified component strengths. At the beginning of all masonry work, at least one test sample of the mortar and grout shall be taken on three successive working days and at least at one-week intervals thereafter. ~~The samples shall be continuously stored in moist air until tested.~~ They shall meet the minimum strength requirement given in Sections ~~2103A.3 and 2103A.4~~ 2103A.8 and 2103A.12 for mortar and grout, respectively. Additional samples shall be taken whenever any change in materials or job conditions occur, or whenever in the judgment of the architect, structural engineer or the enforcement agency such tests are necessary to determine the quality of the material.*

Test specimens for mortar and grout shall be made as set forth in ~~UBC Standards 21-16 and 21-18~~ ASTM C 109 1586 and ASTM C 1019. ~~In making the mortar test specimens, the mortar shall be taken from the unit soon after spreading. After molding, the molds shall be carefully protected by a covering which shall be kept damp for at least 24 hours, after which the specimens shall be stored and tested as required for concrete cylinders.~~

~~In making grout test specimens, the masonry unit molds shall be broken away after the grout has taken its set, but before it has hardened. If an absorbent paper liner is used, the mold may be left in place until the specimen has hardened. The prisms shall be stored as required for concrete cylinders. They shall be tested in the vertical position.~~

Rationale: ASTM C 1586, rather than C 109, is the appropriate national standard for field quality assurance testing of mortar, including preconstruction and construction evaluation of mortar properties (references ASTM C 780 for testing procedures). Note that the U.B.C. Standard 21-16 is contained only in Volume 3 of the 1997 Uniform Building Code, and is not continued in the 2006 International Building Code. DSA also understands that this ICBO standard will not be published elsewhere by the ICC. This renders it unavailable for adoption by reference by DSA-SS.

The proposed repeal of provisions regarding sampling and handling duplicate and conflict with the requirements contained in the referenced standards (C 1586 and C 1019).

This change addresses comments by Mr. Robert D. Cherrier of BSK associates, inc. during the 45-day comment period.

15 Day Public Comment Period – No Comments Received by OSHPD:

DETERMINATION OF ALTERNATIVES CONSIDERED AND EFFECT ON PRIVATE PERSONS. (Government Code Section 11346.9(a) (4))

The Office of Statewide Health Planning and Development has determined that no alternative considered would be more effective in carrying out the purpose for which the regulation is proposed or would be as effective and less burdensome to affected private persons than the adopted regulation.

Supporting information:

This triennial adoption is mandated.

REJECTED PROPOSED ALTERNATIVE THAT WOULD LESSEN THE ADVERSE ECONOMIC IMPACT ON SMALL BUSINESSES: (Government Code Section 11346.9(a) (5))

There are no rejected proposed alternatives to identify. This proposal will not have an adverse economic impact on small businesses.

COMMENTS MADE BY THE OFFICE OF SMALL BUSINESS ADVOCATE. (Government Code Section 11347.6)

No comments were received from the Office of Small Business Advocate for this proposal.

COMMENTS MADE BY THE TRADE AND COMMERCE AGENCY. (Government Code Section 11347.6)

No comments were received from the Trade and Commerce Agency for this proposal.