

**INITIAL STATEMENT OF REASONS
OF THE
OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT**

**REGARDING PROPOSED CHANGES TO THE
CALIFORNIA ADMINISTRATIVE CODE
AND
CALIFORNIA BUILDING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PARTS 1 & 2**

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

STATEMENT OF SPECIFIC PURPOSE AND RATIONALE: The purpose of this proposed action is to amend the California Administrative Code (CAC) based on new information for incorporation into the 2010 CAC. Additionally, the Office of Statewide Health Planning and Development (OSHPD) is mandated to adopt the most recent edition of model code, as amended by Office, pursuant to Health and Safety Code Section 18928. This proposed rulemaking represents OSHPD's proposal to adopt the 2009 International Building Code published by International Code Council and carry forward existing California amendments into the 2010 California Building Code (CBC). New amendments are also being proposed for the CBC based on new information.

**Title 24, Part 1
Chapter 6 - Seismic Evaluation Procedures for Hospital Buildings**

Table 11.1 – Footnote No. 2 of Table 11.1 is revised to make it consistent with the 2010 CBC Section 3412A.

**Title 24, Part 1
Chapter 7 – Safety Standards for Healthcare Facilities**

Section 7-104 – Revised is necessary for consistency with the 2010 CBC Section 104.11.

Section 7-111 – “Nonrequired structural alteration” is changed to “voluntary structural alteration” to make definition consistent with the 2010 CBC Chapters 34 & 34A. Definition of conforming and nonconforming buildings, which are given in Chapter 6, are added to Chapter 7 since they are now used in context not specifically related to seismic evaluation procedure of hospital buildings.

Article 20 – This article is revised to clarify that all emergencies are treated the same way as required by FEMA. In addition, earthquake repair requirements in this article are deleted because they are now addressed in the 2010 CBC Chapters 34 and 34A.

**Title 24, Part 2, Volume 1
Chapter 1 – Scope and Administration**

Section 102.4 – Amendment in this chapter is required to ensure consistency between the California Building Standards Code and Reference Standards.

**Title 24, Part 2, Volume 1
Chapter 14 – Exterior Walls**

Section 1403.2 – The exception relating to OSHPD 1, 2 & 4 is deleted since the reference to Title 24, Part 6, California Energy Code, is removed from the section by reference to another section of this code.

Section 1408.3 (2007 CBC) – This section is deleted because it is redundant. It refers to requirements in Chapter 17A.

**Title 24, Part 2, Volume 1
Chapter 15 – Roof Assemblies and Rooftop Structures**

Section 1511.6 (2007 CBC) – This section is deleted because it is redundant. It repeats requirements that are in Section 104.11 and the roof systems testing requirements that are covered in Section 1504.3.1.

Title 24, Part 2, Volume 2
Chapter 16 – Structural Design

Section 1605.3.2 – The amendment in this section is not necessary, since most anchorage is currently qualified for cyclic forces expected during earthquake.

Section 1609.1.1 and 1609.6 (2007 CBC) – The California amendment is no longer necessary because it has been incorporated into model code. Deleted California amendments are not shown; only new model code amendments are shown to avoid confusion.

Section 1609.4 – The amendment to this section is not necessary. With the availability of Google maps and other internet tools site exposure conditions can be easily verified.

Title 24, Part 2, Volume 2
Chapter 16A – Structural Design

Section 1601A.1 – Section references are revised because California Chapter 1 in the 2007 CBC will be relocated to Chapter 1A in the 2010 CBC.

Section 1602A.1 – Section reference is revised because Appendix Chapter 1 in the 2007 CBC will be relocated to Chapter 1 in the 2010 CBC.

Section 1603A.1.5 - Structural irregularities (defined in ASCE-7 section 12.3) can result in restrictions on building height, prohibition of certain configurations, increased design forces, additional analytical requirements, restriction of permissible analytical procedures, greater building separations, or additional detailing requirements for certain structural elements. It is often not evident whether one or more irregularities are applicable to a structure, because many of them require structural analysis to determine their applicability. This information is useful for building officials, plan checkers, peer reviewers, and for structural engineers in future building additions and/or alterations.

Table 1604A.3 – Veneer wall deflection limit is revised to be consistent with Section 1405.10.

Section 1604A.3.7 – Reference for wood diaphragm aspect ratios is changed to American Forest & Paper Association Special Design Provisions for Wind and Seismic, 2008 (AF & PA SDPWS -2008) since equivalent table in Chapter 23 is deleted in the 2009 IBC.

Section 1604A.3.7.1 – This section is deleted to avoid duplication with ASCE 7 Section 12.12.4.

Section 1604A.3.8 - This section is deleted to avoid duplication with Section 104.11.

Section 1605A.1.1 - This amendment is necessary for consistency with Section 1615A.1.10. Stability requirements in Section 1615A.1.10 are deleted and all the requirements are consolidated into this section.

Section 1605A.3.2 – ASCE 7-05 Section 13.4.2 is revised in Section 1615A.1.14 of this code, making the amendment unnecessary.

Section 1605A.4 – Existing amendment deleting exception is retained.

Section 1607A.11.5 – Relocated from CBC 2007 Section 1607A.11.2.2.

Section 1607A.13 – Editorial change.

Section 1609A.1.1 and 1609A.6 (2007 CBC) – California amendment is no longer necessary because it has been incorporated into model code. Deleted California amendments are not shown; only new model code amendments are shown to avoid confusion.

Section 1609A.4 – With availability of Google maps and other internet tools, a detailed verification submittal is no

longer necessary.

Section 1613A.1.1 – This section is deleted since requirements in the section duplicate alternative system requirements in the code.

Section 1613A.2 – Definition of “Next Generation Attenuation” (NGA) relations is added for use in Geotechnical/Geohazard reports. Some definitions are deleted because they are no longer used in the code.

Section 1613A.6.3 – Requirements for design of anchorage and bracing in accordance the 2010 CBC is added, since equivalent provisions in NFPA – 13 are not consistent with 2010 CBC.

Section 1613A.6.4 – This section is deleted for consistency with Chapter 21A.

Section 1613A.6.7 – Importance factor “I” is deleted from the denominator to ensure that buildings subjected to same forces and stiffness will have equal building separations.

Section 1613.6.8 (2009 IBC) – Deleted redundant requirements in this section since OSHPD amendments in Section 1615A cover the requirements.

Section 1613.7 (2009 IBC) – This section is deleted to retain the minimum wall force requirements in ASCE 7-05 for high seismic areas.

Section 1614A.1.13 (2007 CBC) – Deleted requirements are redundant because of the amendments to ASCE 7-05 in Sections 1615A.1.7, 1615A.18 and 1615A.1.19.

Section 1614A.1.14 (2007 CBC) – Deleted requirements are consolidated into ASCE 7-05 Section 13.6.7 amendments in Section 1615A.1.18.

Section 1614A.1.21 (2007 CBC) – Requirements moved to Section 1708A.5.

Sections 1614A.1.24 (2007 CBC), 1614.1.26 (2007 CBC) through 1614A.1.31 (2007 CBC) – These sections are deleted to permit design of buildings with base isolators and dampers without non-linear response history analysis in areas where site spectral acceleration at one second (S_1) is less than 0.6g.

Section 1615A.1.1 – This section is revised to clarify requirements for structural design criteria and peer review requirements in the 2007 CBC and ASCE 7-05.

Section 1615A.1.2 – This section codifies OSHPD CAN 2-1614A.1.2.

Section 1615A.1.4 – Deleted requirements is covered in ASCE 7-05 Section 12.12.4.

Section 1615A.1.9 – This proposal is based on modification to ASCE 7 proposed by SEAOC to eliminate affect of minimum diaphragm shear on amplified loads for collector design, since minimum shear is not tied to “R” factor.

Section 1615A.1.10 (2007 CBC) – Deleted requirements for stability check in this section is picked-up by the model code in Section 1605A.1.1.

Section 1615A.1.11 – This section codifies OSHPD CAN 2-1613A.1.

Section 1615A.1.12 – This section is revised to make it consistent with ASCE 7-10 and current OSHPD practice.

Section 1615A.1.14 – This section is revised to make it consistent with ASCE 7-10. Exceptions # 1 codify requirement in the OSHPD CAN # 2-1912A.1 & # 2 relocate exception to the CBC 2007 Section 1908A.1.47 (exception to ACI 318-05 Sections D.3.3.4 & D.3.3.5)/IBC 2009 Section 1908A.1.9 (exception to ACI 318-08 Sections D.3.3.4 & D.3.3.5).

Section 1615A.1.15 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.16 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.17 – This section is revised to make it consistent with requirements of ASCE 7-05 Section 13.4 for seismic design categories D, E, and F.

Section 1615A.1.20 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.21 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.22 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.25 – This amendment is added to permit Next Generation Attenuation (NGA) relations for ground motions.

Section 1615A.1.26 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.27 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.28 – This section is revised to provide acceptance criteria for non-linear response history analysis explicitly. These requirements are based on International Existing Building Code (IEBC), which is a reference standard for the 2009 IBC.

Section 1615A.1.32 – This section is revised to make it consistent with ASCE 7-10.

Section 1615A.1.33 – This section is revised to permit linear analysis of base isolated buildings.

Section 1615A.1.34 – This section is revised to permit linear analysis of base isolated buildings.

Section 1615A.1.35 – This section is revised for consistency between analysis requirements in ASCE 7-05 Chapter 18 and the materials chapters of the 2010 CBC.

Section 1615A.1.36 – This section codifies OSHPD CAN 2-1614A.1.2.

Section 1615A.1.37 – Requirements in the 2007 CBC Sections 1614A.1.20.g and 1614A.1.22 are consolidated in this section. This section also clarifies that earthquake instrumentation and monitoring equivalent to those of a base isolation system also apply to buildings with a damping system or undefined lateral force resisting system in accordance with Section 104.11.4 of the Appendix Chapter 1.

Section 1615A.1.38 – Non-mandatory requirements to achieve operational performance level is added to the code. SB 1953 will require all buildings to satisfy the operational performance level by 2030.

Title 24, Part 2, Volume 2

Chapter 17 - Structural Tests and Special Inspections

Section 1704.4.2 – This section is deleted because it is a duplicate of the requirement in 2007 CAC Section 7-145(a) 6.A.

Title 24, Part 2, Volume 2

Chapter 17A - Structural Tests and Special Inspections

Sections 1704A.2.1 and 1704A.2.2 – This section codify current OSHPD practice of not establishing approved fabricators and do not permitting any exception to special inspection requirements for approved fabricators.

Section 1704A.3.1.4 – Deleted parts are picked-up by model code. Welder qualification is required by AWS.

Section 1704A.3.2.1 – This section is not required since shop and field fabrications are treated equally.

Section 1704A.4 – Existing amendment retained.

Section 1704A.4.2 – This section is deleted since requirement in this section is covered by Section 1704A.3.1.

Table 1704A.4 (CBC 2007) – California amendments in this table (Items # 3 and # 12) have been incorporated in model code in Table 1704.4 (Items # 3 & 4) and therefore are not being carried forward to 2010 CBC.

Section 1704A.4.4 – This section is revised for consistency with Table 1808A.8.1.

Table 1704A.4.5.2 (CBC 2007) – Deleted requirement is redundant.

Section 1704A.4.6 – This section is revised for consistency with current practice.

Section 1704A.8.1 – Deleted section is redundant.

Section 1704A.9.1 – Section is deleted since requirements are picked-up by model code.

Section 1704A.16 – Requirements for reinforced gypsum inspection is deleted since it is considered an alternative system in accordance with the Chapter 19A.

Section 1707A.4 – Exception is deleted since gypsum board shear walls are not permitted by OSHPD. This is consistent with Section 1707A.3.

Section 1707A.9 – This amendment will provide inspection requirements for dampers and isolators equivalent.

Sections 1708A.1.1 & 1708A.1.2 (2007 CBC) – California amendments are picked-up by model code.

Section 1708A.1.3 – Model Code Errata.

Section 1708A.1.4 – Testing requirement for damping devices which are not addressed in the model code is added.

Section 1708A.4 – Requirements in the 2007 CBC Section 1614A.1.21 is relocated to this section and language is clarified.

Section 1708A.5 – Testing requirements for damping system, which are not currently addressed in the code, are added. Also, prototype and production testing requirements for Isolator units and damping devices, which are currently in the 2007 CBC Section 1614A.1.21 and 1614A.1.31 are consolidated into this section.

Title 24, Part 2, Volume 2

Chapter 18 – Soils and Foundations

Section 1802.8 - All requirements beyond the model code geotechnical report and supplemental ground-response reports are deleted. Revision to model code Chapter 18 adequately address the geotechnical report requirements. Supplemental ground response requirements in ASCE 7 Chapter 21 are adequate for OSHPD 2 buildings.

Section 1810.3.1.5.1 – Seismic requirements are added for helical piles, which are not in the model code.

Section 1810.3.10.4 – Alternative system submittal requirement in the code is removed by explicitly providing requirements for use of micropiles in Seismic Design Categories D, E or F.

Title 24, Part 2, Volume 2

Chapter 18A – Soils and Foundations

Section 1802A.2.8 (2007 CBC) – California amendments have been incorporated into the model code in Chapter 19A.

Section 1803A.1 - Reference to California Geological Survey (CGS) is deleted since the enforcement agency can choose a consultant other than CGS and in certain cases may not pick any consultant.

Section 1803A.2 - Amendment relocated from Section 1802A.2.

Section 1803A.6.1.2 – Deleted requirements are covered by Section 1803A.5.11 and 1803A.5.12.

Section 1803A.6.2 – Section is revised to require Next Generation Attenuation (NGA) relations, which will be the basis of future building code, for site specific ground motion analysis.

Section 1806A.1 (CBC 2007) - Requirements are being deleted since they duplicate requirements in Section 1802A.2.7.

Section 1807A.1.1 – Section is revised to make it consistent with requirements in Section 1803.5.12.

Section 1807A.1.3 – Deleted provisions are not permitted in Seismic Design Categories D, E, and F, which are the only design categories permitted by OSHPD.

Section 1807A.2 – Amendment relocated from Section 1806A.

Section 1807A.2.2 – Section is revised to make-it consistent with requirements in Section 1803.5.12. Deleted existing amendments are redundant since lateral soil pressure is provided by the geotechnical engineer.

Section 1808A.2 – Editorial changes made to existing provisions for clarity.

Section 1808A.8.5 – Concrete cover requirements in defined in Table 1808.8.2 and ACI 318-08 Section 7.5.2.1 added tolerance requirement for concrete cover, which removed the rationale for existing amendment.

Section 1808A.8.6 – Column confinement requirement for piles just below cap and free standing piles in accordance with ACI 318-08 is retained.

Section 1809A.13 (Exception) – Provision for alternative to prescriptive provisions, which are permitted on a case by case basis, is codified.

Section 1810A.2.23.2.4 (CBC 2007) – California amendment is picked-up by model code in Section 1810A.2.4.1.

Section 1810A.3.1.5.1 – Seismic requirements for helical piles are added. ICC AC 358, which is the basis of helical piles provisions in 2009 IBC, limited helical foundations to Seismic Design Categories A, B, and C. When helical foundation requirements were adopted in 2009 IBC, restriction for Seismic Design Categories D, E, and F were omitted accidentally.

Section 1810A.3.1.5.1 – Section is deleted since this is in conflict with ACI 31-08 requirements for deep foundation.

Section 1810A.3.8.3.2 – Requirements for Seismic Design Category C are deleted since Seismic Design Category C are not permitted by Section 1613A.

Section 1810A.3.9.4.2.1 - Section is revised for consistency with ACI 31-08 requirements for deep foundation.

Section 1810A.3.10.2 – Minimum pipe thickness is changed to 3/8" for use in Seismic Design Categories D, E and F to provide corrosion allowance.

Section 1810A.3.10.4 – Alternative system submittal requirement in the code is removed by explicitly providing requirements for use of micropiles in Seismic Design Categories D, E or F.

Section 1810A.4.7 – Revision in model code to design requirements for enlarged pile made them equivalent to other cast-in-place concrete, which removed the rationale for original amendments.

Title 24, Part 2, Volume 2
Chapter 19 – Concrete

Section 1911.1.1 – This section codifies OSHPD requirements currently contained in CAN 2-1912A.1.

Sections 1912.1.1, 1912.1.1, 1912.1.2, and 1912.2 – These sections codify OSHPD requirements currently contained in CAN 2-1912A.1 and 2-1916A.8.

Title 24, Part 2, Volume 2
Chapter 19A – Concrete

Section 1903A.3 – Since durability is dependent on components of cementitious materials & is required for verification of compliance with ACI 318-08 Table 4.4.2, reporting requirement for them is added.

Section 1903A.5 – Discontinuous steel fibers had not yet been tested for use in high seismic regions; therefore they are prohibited in this section.

Section 1905A.1.1 – Section is revised to make it consistent with Table 1808A.8.1.

Section 1905A.2 – Requirement that is duplicate with OSHPD's Testing, Inspection, and Observation (TIO) program in accordance with the California Administrative Code is deleted.

Section 1905A.8 – This requirement is not necessary because of changes in construction practice.

Section 1907A.7.1 – Addition of tolerances for concrete cover in ACI 318 Section 7.5.2.1 removed the original rationale for this amendment.

Section 1908A.1.1 – Word "basis" is deleted to make code consistent with ASCE 7 terminology.

Section 1908A.1.6 (2007 CBC) – ACI 318-08 revised this section to eliminate the rationale for this amendment.

Sections 1908A.1.8 (2007 CBC) and 1908A.1.6 (2007 CBC) – Redundent sections deleted.

Section 1908A.1.13 (2007 CBC) – Simplification provided by this section, which were intended for hand calculations, is no longer necessary since most of calculations are now done by the computer software. If soil pressures are calculated by neglecting vertical effect of earthquake as permitted by exception to ASCE 7 Section 12.4.2.2, this simplification will give incorrect results.

Section 1908A.1.14 (2007 CBC) – California amendments adopted by 2009 IBC in Section 1605A.1.1.

Section 1908A.1.15 (2007 CBC) – Deleted requirements are covered by ASCE 7.

Section 1908A.1.16 – Deleted paragraphs are pointers to other sections of the code, which are not necessary.

Section 1908A.1.18 (2007 CBC) – This amendment is no longer necessary. All requirements for precast walls in ACI 318 Chapter 16 apply to site-cast precast wall panels based on definition of precast wall in ACI 318 Section 2.2.

Section 1908A.1.23 (2007 CBC)– Simplification provided by this section, which were intended for hand calculations, is no longer necessary since most of calculations are now done by the computer software. In addition, changes in ACI 318-08, which changed concrete strength at which prestress can be applied, make this incorrect.

Section 1908A.1.24 (2007 CBC) – This section is deleted because requirements in this section are not fully consistent with other code provisions and uniform force method in the ACI 318-08 made this provision unnecessary. In addition, Structural Integrity requirements are covered in new code Section 1614A.

Section 1908A.1.25 (2007 CBC) - This section is delete because it is redundant.

Section 1908A.1.26 (2007 CBC) - This section is delete because it is redundant

Section 1908A.1.30 (2007 CBC) – Deleted requirements in this section is picked-up by ACI 318-08.

Section 1908A.1.23 – This section is not permitted by OSHPD for consistency with Section 1615A.1.3.

Section 1908A.1.30 – This section is modified to make it consistent with amendments in Chapter 16A and 23A.

Section 1908A.1.31 – Section 1615A revised ACE 7-05 Section 13.4.1 and 13.4.2, making deleted exceptions unnecessary.

Section 1908A.1.33 (2007 CBC) – Deleted requirements in this section is picked-up by ACI 318-08.

Section 1908A.1.34 (2007 CBC) – ACI 318 Section 21.6.4.5, which limit maximum tie spacing to 6", is considered to provide adequate protection, hence this amendment is deleted.

Section 1908A.1.35 (2007 CBC) – ACI 318 Section 21.6.4.5, which limit maximum tie spacing to 6" , is considered to provide adequate protection, hence this amendment is deleted.

Section 1908A.1.36 (2007 CBC) – Deleted requirements in this section is picked-up by Section 1908A.1.22.

Section 1908.1.7 (2009 IBC) – This section is deleted because it is in conflict with Section 1909A.

Section 1908.1.8 (2009 IBC) – This section is deleted because it is in conflict with Section 1909A.

Section 1908A.1.47 (2007 CBC) – Deleted requirements in this section is picked-up by ACI 318.

Section 1909A – This section is deleted for consistency with Section 1908A.1.22.

Section 1911A.1.1 – This section codifies OSHPD requirements currently contained in CAN 2-1912A.1.

Sections 1912A.1.1– This sections codify OSHPD requirements currently contained in CAN 2-1912A.1.

Section 1913A.3 – Aggregate size gradation for shotcrete in shear wall is specified to ensure good performance of shear walls during earthquake.

Section 1913A.11 – California amendment incorporated in model code Section 1913A.5.

Sections 1916A.2 & 1916A.4 – Contents of Sections 1916A.2 & 1916A.2 are consolidated into Section 1916A.2. Also, reference to 2500 psi concrete is deleted since it is not permitted anymore.

Section 1916A.7 – This section codifies OSHPD requirements for post-installed concrete anchor testing currently contained in CAN 2-1916A.8.

Section 1917A.3 – This section codifies current OSHPD practice for concrete strengthening for gravity frame members using externally bonded Fiber Reinforced Polymer (FRP).

Title 24, Part 2, Volume 2

Chapter 21A - Masonry

2101A.1.3 – This section consolidate existing prohibition in various section of the 2007 CBC with no change to current requirements.

Section 2103A.8 – This amendment will permit use of class M mortar in addition to class mortar, since both can provide equivalent performance. Deleted section is redundant. Reference to ASTM C 144 is covered in ASTM C 270.

Section 2103A.12.2 – Repeal restriction on coarse aggregate, since ASTM C 404 requirement is more stringent.

Section 2103A.12.3 - Repeal reference to ASTM C 404, since reference to the standard is in ASTM C 476.

Section 2103A.14.4 – Repeal limitations on carbon black more restrictive in ACI 530 Section 2.6 A.2.

Section 2104A.1.1 – This section codify current practice.

Section 2104A.2 (2007 CBC) – Amendments in this section for corbelled masonry is deleted, since new provisions in the 2010 CBC (2009 IBC) Section 2104A.2 is adequate.

Section 2104A.5 – Existing amendment for grouted masonry is retained with editorial changes. Pointers to other sections in the code, which are not necessary, have been deleted.

Section 2105A.2.1 (Exception) - Increase maximum value of f'_m to 3000 psi in recognition of improved masonry design and QA standards.

Section 2105A.2.2.3 – Redundent section is deleted, since requirements are covered in ASTM C 1314.

Section 2105A.6 – Redundent section is deleted.

Section 2107A.1.1 – Design assumptions are deleted because they are not necessary for design.

Section 2107A.4 (2007 CBC) – Revised anchor bolts requirements in Section 2.1.4 of TMS 402 is considered adequate.

Section 2107A.5 (2007 CBC) – Revised anchor bolts requirements in Section 2.1.4 of TMS 402 is considered adequate.

Section 2107A.6 (2007 CBC) – Prescriptive bearing requirements are considered unnecessary since Chapter 22 & 23 require submission of detailed joist design calculations.

Section 2107A.10 (2007 CBC) – Existing requirements is relocated to Section 2101A.1.3.

Section 2107A.12 (2007 CBC) – Requirement is picked-up in the TMS 402 Section 2.3.3.4.

Section 2107A.5 – Reference to strength design section is deleted.

Section 2108A.2 (2007 CBC) – Existing requirements is relocated to Section 2101A.1.3.

Section 2113A.5 (2007 CBC) – California amendments picked-up by 2009 IBC in Sections 2113A.4 & 2113A.5.

Title 24, Part 2, Volume 2

Chapter 22A - Steel

Section 2204A.1.1 – This section is revised to be consistent with requirements in AISC 341-10.

Section 2204A.1.2 – This section is revised to be consistent with requirements in AISC 341-10.

Section 2204A.1.3 – This section is revised to be consistent with requirements in AISC 341-10.

Section 2205A.1.1 – Existing section, which was intended for bolted moment connections, is not necessary since OSHPD currently do not permit bolted moment connections.

Section 2205A.5.1 – This section is revised to permit Welded Unreinforced Flange – Welded Web (WUF-W) moment connections, which is adopted by AISC 341-05 Supplement # 1. This section will also prohibit bolted moment connections approved through AISC 341-05 Supplement # 1, since they are not tested to OSHPD seismic pre-qualification requirements.

Section 2205A.5.2 (2007 CBC) – This section is deleted since any structural slab seems to provide adequate rotational restraint.

2206A.4 – Deleted requirement is redundant since OSHPD does not permit deferred approval of primary gravity load resisting system.

Section 2209A.3 – Redundant test requirements is deleted.

2210A.3.2 – Errata.

Section 2210A.3.3 – Section is revised to be consistent with the California Administrative Code (Title 24, Part 1) Section 7-126.

2210A.6 – Editorial.

Section 2212A.1 (2007 CBC) – California amendments incorporated in the model code (2009 IBC).

Section 2212A.4 (2007 CBC) – Redundant test requirements (which is also covered in Section 2205A) is deleted.

Title 24, Part 2, Volume 2

Chapter 23 - Wood

Section 2301.2 - Log structure is not considered appropriate for occupancy category IV structures in high seismic region, since ASCE 7 or building code do not provide seismic co-efficient for log structures.

Section 2303.1.3.1 – Reference to other code sections are deleted since they had been causing confusion as to exclusive nature of those requirements. Construction documents shall satisfy all the code requirements.

Section 2303.4.3.1 – Revisions to Section 2303.4.1 in 2009 IBC eliminated the basis for deleted parts of the amendment.

Section 2303.3.4 – Reference to other code sections are deleted since they had been causing confusion as to exclusive nature of those requirements. Construction documents shall satisfy all the code requirements.

Section 2304.4.1 – Reference to other code sections are deleted since they had been causing confusion as to exclusive nature of those requirements. Construction documents shall satisfy all the code requirements.

Section 2304.6.1 – Revision is necessary to provide proper importance factors for Occupancy Category IV buildings.

Section 2305.1.2 – 2009 IBC removed the duplicate requirements between code and SDPWS removing the basis for deleted amendments.

The design shear values for wood structural panel shear walls with staples are based on monotonic testing. Earthquakes load shear walls in a repeating fully reversible manner. Tests performed by the Structural Engineers Association of California indicate that shear assemblies constructed with staples deteriorate badly under cyclical loading.

Prohibition on unblocked shear walls in the CBC 2007 Section 2305.3.3 is retained for high seismic region.

Section 2305.1.4 - Current design provisions require calculation of the capacity of sill plate anchor bolts using the provisions of ACI 318 Appendix D, however, those methods result in shear capacities far smaller than historical values using provisions of earlier codes and standards. Recent experiments specifically focused on this connection have revealed that the actual capacities exceed those historically used and support a return to determining the sill bolt shear capacity based upon its capacity in the wood sill plate member. The experiment by SEAOC showed that concrete failure modes do not control the capacity of these connections when certain embedment, edge and end distances are maintained. Therefore, it is proposed that Section 2305.1.4 clearly state that the minimum design capacity be based upon the lateral design value of the bolt attaching a wood sill plate to concrete, as determined using AF&PA NDS.

Section 2306.4 – This section is prohibited for consistency with section 1615A.1.3.

Section 2308.2.8 – Amendments to permit conventional light-frame construction for OSHPD 1 & 4 buildings, when sufficient calculation to justify the design is provided, is deleted because it is in conflict with Section 2308.2.6. In addition, new requirements in AF & PA SDPWS for uplift and shear resistance of wood panels resisting out-of-plane forces, which is an important consideration for performance of Occupancy Category IV structures, is not addressed in conventional light-frame construction provisions.

Title 24, Part 2, Volume 2

Chapter 24 – Glass and Glazing

Section 2403.1.1 - Labeling requirements in the model code is considered in adequate.

Section 2403.6 – Redundant requirements in this section is deleted.

Section 2406.1.5 – Redundant requirements in this section is deleted.

Title 24, Part 2, Volume 2

Chapter 25 – Gypsum Board and Plaster

Section 2501.2 – Editorial.

Section 2503.2 – Editorial.

Section 2506.2.1.1 – Redundant requirements in this section is deleted. Section 2506.2.1 adequately covers the requirement.

Title 24, Part 2, Volume 2
Chapter 34 - Existing Structures

Section 3401.4 – Compliance with International Existing Building Code (IEBC), which in general permits evaluation and retrofit design for lateral forces at 75% of the California Building Code (CBC) force level, is considered inappropriate for healthcare facilities; therefore it is prohibited.

3401.5 – Amendments in this section are intended to permit the use of ASCE 41-06 in OSHPD 3 structures as an option.

Title 24, Part 2, Volume 2
Chapter 34A - Existing Structures

Section 3401.4 (2009 IBC) –International Existing Building Code (IEBC), in general, permit evaluation and retrofit design for lateral forces at 75% of the California Building Code (CBC) force level. This is considered inadequate for hospitals which are expected to remain operational following design earthquake; therefore compliance alternative using IEBC is deleted.

Sections 3402A – Definitions in this section are revised to make them consistent with code changes in other section of this chapter.

Section 3403A.4.1 – Pre-Northridge moment connections, which had shown poor performance during Northridge earthquake are designated as ordinary moment connections based on observed poor performance.

Section 3404A.1 – Reference to Section 3401.4 is deleted since that section is not adopted by OSHPD.

Section 3404A.4.1 – Pre-Northridge moment connections, which had shown poor performance during Northridge earthquake are designated as ordinary moment connections based on observed poor performance.

Section 3404A.5 – Design demand and capacity requirements for new structural/nonstructural elements and demands for alterations, which are part of the voluntary seismic improvement, are defined explicitly in this section.

Section 3405A – Revision in this section will ensure that repaired buildings will have capacities equivalent to other buildings with additions or modifications in accordance with Section 3403A.

Section 3405A.2.1 – Pre-Northridge moment connections, which had shown poor performance during Northridge earthquake are designated as ordinary moment connections based on observed poor performance.

Section 3408A.4 – Pre-Northridge moment connections, which had shown poor performance during Northridge earthquake are designated as ordinary moment connections based on observed poor performance.

Section 3411 (2009 IBC) – Existing amendment deleting this section is continued. Accessibility requirements are addressed in Chapter 11B.

Section 3412 (2009 IBC) – This section is deleted since requirements in this section is not permitted in Group I buildings in accordance with Section 3412.2 and all buildings for OSHPD 1 & 4 are in Group I.

Section 3411 – This section is revised by deleting requirements that are now addressed by model code in Sections 3403A, 3404A and 3405A.

Section 3412 (2009 IBC) – This section is deleted since requirements in this section is not permitted in Group I buildings in accordance with Section 3412.2 and all buildings for OSHPD 1 & 4 are in Group I.

Section 3413A.1.2 – This section is revised to permit reduced ground motions for some existing buildings equivalent to what is permitted for new buildings under ASCE 7. There is no rationale to evaluate or retrofit existing buildings for ground motions higher than those for existing building.

Section 3413A.1.5 – This section is revised to permit nonlinear static procedure with linear dynamic analysis for low rise buildings where higher mode affect are significant. Intent of the original amendment was for high rise buildings, this amendment clarifies the intent.

Section 3413A.1.18 – Clarification of existing amendments.

Section 3413A.1.24, 3513A.1.25 & 3513A.1.28 – These amendments are relocated to Chapter 17A and are consolidated with similar requirements for the isolators and dampers for new buildings for uniformity.

Section 3415A – Authority of the enforcement agency to install earthquake monitoring instruments in existing buildings, which was part of the CBC 2001 and other UBC based Code, is restored. This will permit OSHPD to install and maintain earthquake monitoring instruments at existing hospitals at OSHPD's expense; OSHPD shall also be responsible for data retrieval and maintenance of these instruments.

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Chapter 35 - Referenced Standards

References in this chapter are revised for consistency with amendments in all other Chapters.

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Appendix J – Grading

Section J106.2 – This section codifies current OSHPD practice for earth retaining shoring design, construction, monitoring and inspection.

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

2009 IBC: International Building Code.

ACI 318-08: Building Code Requirements for Structural Concrete and Commentary.

TMS 402-08: Building Code Requirements for Masonry Structures.

TMS 602-08: Specification for Masonry Structures.

AF & PA SDPWS-2008: Special Design Provisions for Wind and Seismic.

CONSIDERATION OF REASONABLE ALTERNATIVES

Health and Safety Code (H&SC) Section 18941 requires consistency with state and nationally recognized standards for building construction in view of the use and occupancy of each structure to preserve and protect the public health and safety.

The alternative to these proposed regulations would be to leave regulations as they are which will be inconsistent with H&SC 18941 requirements.

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

There will be no adverse impact on small business.

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

The regulations proposed will have no overall cost impact on business, since they are equivalent to current requirements in the Code.

DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS

These regulations do not duplicate or conflict with federal regulations.