2010 California Building Code for Community Colleges
and the Collaborative Process: DSA Perspective

Workshop Outline

Alternate Building Code for Community Colleges:
• Background & Development
• Structural Standards for Existing Buildings: Overview of Changes

DSA Plan Review Collaborative Process:
• Collaborative Process Features
• Best Practices from DSA Perspective
Alternate Building Code for Community Colleges:

Background & Development

Alternate Building Code for Community Colleges

- 2010 Title 24 (Parts 2, 3, 4, 5) includes a separate adoption of building standards for community college buildings (DSA-SS/CC)
- 2010 CBC (T24 Pt. 2) provides an alternative set of streamlined structural standards that community colleges may use in lieu of the Field Act (DSA-SS)
- These alternative standards provide equivalent occupancy seismic safety to the Field Act provisions
Alternate Building Code for Community Colleges

The legislative intent of SB 588 (Chapter 704, Statutes of 2008):

CCC structures not constructed in accordance with the Field Act meet the same seismic safety performance levels as those constructed to the Field Act.

Alternate Building Code for Community Colleges

- Amendments not impacting seismic safety performance levels repealed
- Amendments relating to seismic safety performance levels retained
- Amendments adopted when model code or referenced standards are unclear or contradictory
- Included, where appropriate, the building standards governing the construction of structures at the California State University (CSU)
Implementation Approach

• All California amendments reviewed by DSA in consultation with DSA Advisory Board and the SB 588 Technical Group

• California provisions needed for seismic performance are continued as amendments in Chapters 16, 19, 20, 21, 22, and 23.
  – Ease of use and to meet the intent of the legislation

• Testing and inspection, soils and foundation requirements of Chapters 17A & 18A retained
  – Apply to both Field Act and CCC projects

Looking Ahead: 2013 CA Building Code

Alternate building code standards for community colleges: to be continued in the next code cycle

2012 Triennial Code Adoption Cycle:

June 2012    - Proposed changes to CBSC
Sept – Oct 2012    - Public review
July 2013    - Publication
January 1, 2014    - Effective date
Alternate Building Code for Community Colleges:

CBC Chapter 34
Overview of Changes

Seismic Retrofit: Code Development

- Review seismic retrofit requirements applicable to the CSU system
- Review seismic shaking potential at Community College Campuses & compare with CSU
  - Demand side of the equation
- Develop seismic performance requirements for Community Colleges that are comparable to those for CSU buildings
  - Capacity side of the equation
Performance Level...

... The permissible amount of damage, given that design loading occurs

Standard Structural Performance Levels

• ASCE 41

<table>
<thead>
<tr>
<th>Operational</th>
<th>Damage Control</th>
<th>Life Safety</th>
<th>Hazards Reduced</th>
<th>Collapse Prevention</th>
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</thead>
<tbody>
<tr>
<td>Moe's Beer!</td>
<td>Joe's Beer!</td>
<td>Food!</td>
<td>Food!</td>
<td>Damage 0% - 99%</td>
</tr>
</tbody>
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Structural Performance Levels

- Field Act

Damage Control  Hazards Reduced
0%  Level 1 EQ  Level 2 EQ 99%

Division of the State Architect

Structural Performance Levels

- DSA-SS/CC

Operational Damage Life Safety Hazards Collapse
Control Control Reduced Prevention
0% Level 1 EQ Level 2 EQ 99%

Division of the State Architect
Performance Objectives

- Setting the structural capacity of CCC structures to the same level as CSU structures
- Reducing nonstructural bracing requirements to the same level as CSU structures

- Recognition of the differences in vulnerability of the student population of CCC buildings as opposed to K-12 buildings
- Acceptance on the part of the CCC officials of higher levels of nonstructural damage in strong ground shaking, in return for reduced seismic retrofits costs
DSA Plan Review:

Collaborative Process

What is Collaborative Process?

DSA consultation and review of preliminary documents during the design process with the design team and community college district
What is Collaborative Process?

Joint meetings to review and address any of the following:

– Title 24 code requirements:
  Desk review by DSA to identify code compliance issues and/or offer solutions

– Project schedule requirements:
  Establish time frame goals

– Plan review process requirements:
  Incremental submittals, deferred approvals, etc.

DSA Perspective

• Project issues resolved through CP: structural safety, fire/life safety, accessibility

• Benefit: resolving potential code compliance issues to avoid approval delays, costly and lengthy redesigns
**DSA Perspective**

- CP Effectiveness Metrics:
  - DSA meeting client’s expectations for technical guidance
  - Client considering DSA guidelines in project design
  - Plan review meeting target time frames (no delays)

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**Client Perspective**

Preliminary meetings with DSA:
- Control over meeting dates & agenda
- Comprehensive desk review or consultation for specific design issue and/or code requirement

Plan Review & Approval:
- Greater expectation of meeting target time frames
- Ability to refer to preliminary meeting minutes & …
Responsibilities: CCC Design Team

- Request preliminary meetings through DSA Regional Office Manager
- Provide meeting documents (drawings, etc.)
- Prepare meeting minutes
- Present issues in full context to ensure CP agreements carry through to plan approval
- Provide meeting minutes & any applicable documents from CP with project submittal

Responsibilities: DSA Regional Office

- Provide staff resources for meetings & follow-up: structural engineer, fire/life safety officer and architect – senior staff with authority to make decisions
- Review meeting minutes for acceptance
- Consider CP meeting minutes & documents during project review
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THANK YOU