


MEMORANDUM

To: University Facilities Officers

From: Elvyra F. San Juan 
Assistant Vice Chancellor
Capital Planning Design and Construction

CC: Vice Presidents, Administration, Physical Plant Directors, Energy Managers, Building Coordinators,
Mechanical Review Board Members, Benjamin F. Quillian, CPDC Managers

Date: December 3, 2009

Re: [NEW] 2008 Title 24 Building Energy Efficiency Standards and Revised CSU Compliance Requirements

The CSU has a policy to construct facilities that exceed the minimum requirements of California Title 24 Energy Standards. Over time we have found that we could reliably outperform these energy standards by various amounts. Using the 2007 edition of the Energy Standards, CSU policy has been to exceed the 2007 requirements by a minimum of 20% for new construction and 10% for renovation projects.

Soon, *new* 2008 Title 24 Energy Standards will be issued which contain new and more rigorous requirements. Due to code naming conventions these new standards will carry a 2008 date. This memo updates our systemwide policy regarding Title 24 compliance.

Based on analysis by the CSU Mechanical Review Board, and consultations with campus staff, the following Title 24 compliance standards are enacted: **When the proposed building is connected to a central chiller plant supported by thermal energy storage (TES), the new standard outperformance criteria (excluding process loads) shall remain 20% for new construction and 10% for the renovation projects. However, if the proposed building is not connected to the central plant and is designed with its own dedicated mechanical system without a TES system, this outperformance (excluding process loads) will be reduced to 15% for new construction and 7.5% for renovation projects.**

In addition to the new performance percentage standards, CSU policy will no longer accept individual Title 24 building calculation components (building envelope, lighting, mechanical systems and domestic hot water systems) that have individual negative Title 24 compliance margins. Effectively this will promote an integrated design approach and require closer attention to west glazing schemes in future construction, but will not otherwise be unduly limiting. First costs for a non-negative envelope are anticipated to be neutral overall. The positive effects of this are more sustainable building designs and reduced building operating costs.

Project submittal requirements remain unchanged. Performance based Title 24 calculations for compliance are required at each design phase for overall (all building elements) performance, as well as component energy compliance for the building envelope, lighting, and mechanical & domestic hot water system. **The new standard will, by policy, be applied to all CSU projects beginning design after January 1, 2010.**

Additional information on the component energy compliance calculations is discussed in CPDC A/E Technical Bulletin 09-20. Satinder Gulati, University Engineer, 562-951-4105, sgulati@calstate.edu is the point of contact for questions relative to the technical implementation of this policy.