



**US Army Corps
of Engineers®**

ENGINEERING AND CONSTRUCTION BULLETIN

No. 2010-14

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Subject: Improving building performance through enhanced requirements for energy performance and select LEED credits

References:

- a. Army Memorandum dated 12 May 2010 addressing Constructive Use of FY 2010 and Future Bid Savings
- b. U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) NC rating tool v2.2 and 2009/v3
- c. ANSI/ASHRAE/IESNA Standard 90.1: Energy Standard for Buildings Except Low-Rise Residential Buildings

Applicability: Directive

1. The purpose of this ECB is to establish new requirements for enhanced energy performance and select LEED credits for all MCA projects, effective as noted below.
2. To enhance the energy performance of buildings, Paragraph 5.9.2 of the design-build (D-B) RFP Wizard will be modified to increase the energy consumption savings from 30% to 40% below the consumption of a baseline building compared to ASHRAE Standard 90.1. Also included in the RFP Wizard will be an option for an additional 10% energy savings for a total of 50% energy consumption savings compared to ASHRAE Standard 90.1.

As a reminder, unless a specific document version or date is indicated in the RFP Wizard, the 2007 version of ASHRAE 90.1 should be used in the energy consumption savings calculations, which is consistent with the Applicable Criteria in Paragraph 4 of the RFP Wizard.

For design-bid-build (D-B-B) contracts, all buildings are to achieve an energy consumption that is at least 40% below the consumption of a baseline building meeting the requirements of ASHRAE 90.1. The designer may design a building to achieve greater than 40% reduction if this can be accomplished within the authorized program amount.

3. Select LEED credits which must be included in solicitation requirements are:
 - A. WE 1 Water Efficient Landscaping – No potable water used for irrigation. Applicable to all projects.
 - B. WE 3 Water Use Reduction – At least 30% reduction. Applicable to all projects.
 - C. EA 1 Optimize Energy points that correspond to energy use reduction indicated in paragraph 2 of this ECB.
 - D. EA 3 Enhanced Commissioning – Improved O & M (training, manuals and follow-up). Applicable to all buildings with LEED Silver requirement.

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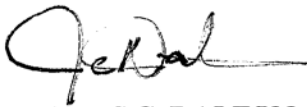
Subject: Improving building performance by adjusting project scope to include enhanced energy performance and select LEED credits

E. EQ 7.1 Thermal Comfort Design – Improved indoor environment. Applicable to all buildings with LEED Silver requirement.

4. This directive is effective for D-B projects with release of RFPs in 4th quarter FY 2010 and beyond and those D-B projects whose RFPs were not yet “locked” in the Wizard as of the date these changes take effect in the Wizard (June 18, 2010). For D-B-B projects, this directive takes effect for all projects at 35% design or less as of July 1, 2010. Code T adapt-build projects which use existing adapt-build models are considered to be beyond the 35% stage of design. COSs are expected to update their existing adapt-build models with the new requirements and have these models available for use starting FY11 3rd quarter.

5. These changes have been incorporated into the RFP Wizard as of June 18, 2010.

6. HQUSACE POCs are Daniel Carpio, CECW-CE, 202-761-4227, or Joanne Qualey, CECW-CE, 202-761-8900. For LEED credits, technical assistance on a reimbursable basis can be provided by Ms. Judith Milton, Savannah District, 912-652-5441 or Ms. Jeanette Fiess, Seattle District, 206-764-3655.



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