

CHAPTER A-14

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CHAPTER A-14

SUSTAINABLE DESIGN

14.1 GENERAL.

14.1.1 Scope. This chapter states criteria, requirements and guidance for sustainable design. Specific submittal requirements in this chapter supplement the requirements of Volume 1. SPiRiT or LEED scoring is our internal measure of success for sustainable design.

14.1.2 Objective. The objective of the Corps of Engineers (COE) is to incorporate sustainable design into all projects to the maximum extent feasible in coordination with functional, operational, cost and other project requirements.

14.1.3 Army Projects and Projects Located on Army Installations. Unless indicated otherwise, all Army projects and projects located on Army installations shall comply with the USACE Army LEED Implementation Guide. LEED certification by USGBC is required only when indicated in the predesign conference or Specific Instructions.

14.1.4 Air Force Projects. Unless indicated otherwise, all Air Force projects shall comply with the USACE Army Implementation Guide, modified for minimum LEED score requirements indicated in Air Force Policy Letter "Air Force Sustainable Design and Development (SDD) Policy", dated 31 July 2007. LEED certification by USGBC is required only when indicated in the predesign conference or Specific Instructions.

14.1.5 LEED Project Registration. Although USGBC certification is required on selected projects only, all projects are required to be registered with USGBC and use the LEED Letter Templates for project documentation. Unless indicated otherwise, register the project, pay registration fees to USGBC and administer the on-line project. Unless indicated otherwise, transfer Project Administrator designation for the registered on-line project to the Government when services are complete.

14.1.6 LEED Accredited Professional. Provide a LEED Accredited Professional who shall ensure compliance with the USACE Army LEED Implementation Guide.

14.2 **APPLICABLE PUBLICATIONS.** The following publications form a part of this Manual to the extent indicated by the references thereto.

HQ USAF/A7C Memorandum, Air Force Sustainable Design and Development (SDD) Policy, July 31, 2007 ,

http://www.afcee.brooks.af.mil/green/resources/A7C_Ltr_AFSustainableDesignandDevelopmentPolicy_1_Aug07.pdf

USACE Army LEED Implementation Guide, January 15, 2008 at <http://en.sas.usace.army.mil> "Engineering Criteria".

14.3 PRECONCEPT SUBMITTAL REQUIREMENTS.

14.3.1 Submittal. Certain projects may be of such magnitude or significance that in order to select the best possible design the COE may require a study to be made prior to concept submittal. Where a preconcept submittal is specifically called for, the design team shall submit three separate schemes of the project (Scheme A, Scheme B, Scheme C) consisting of a site plan, floor plan and major elevations for each scheme.

14.3.2 SPiRiT/LEED Project Checklist. Each scheme shall include a SPiRiT or LEED Project Checklist identifying the SPiRiT/LEED points earned and those points which have good potential to be developed by the scheme. See the tables at <http://en.sas.usace.army.mil> "Engineering Criteria" for sample SPiRiT Project Checklist. LEED projects shall use LEED Project Checklist by USGBC.

14.4 CODE 3 DESIGN REQUIREMENTS.

Comply with USACE Army LEED Implementation Guide.

14.5 CONCEPT/EARLY PRELIMINARY (35 PERCENT) DESIGN SUBMITTAL REQUIREMENTS.

Comply with USACE Army LEED Implementation Guide. Provide draft Basis of Design, Commissioning Plan and Owner's Project Requirements documents with this submittal. USACE Templates for these documents are available at <http://en.sas.usace.army.mil>, "Engineering Criteria".

14.6 PRELIMINARY (60 PERCENT) SUBMITTAL REQUIREMENTS.

Comply with USACE Army LEED Implementation Guide. Implement concept submittal review comments.

14.7 FINAL (100 PERCENT) DESIGN SUBMITTAL REQUIREMENTS.

Comply with USACE Army LEED Implementation Guide. Implement Concept and Preliminary comments.

14.8 CORRECTED FINAL DESIGN SUBMITTAL REQUIREMENTS.

14.8.1 Corrected Final Submittal. The corrected final submittal is not to be considered a normal design level and will be provided in those cases in which the review comments require revision due to A-E error or omission.

14.8.2 Review Comments. Implement final review submittal comments.

14.9 REQUIREMENTS FOR PREPARATION OF DESIGN/BUILD RFP SOLICITATION PACKAGES.

Comply with USACE Army LEED Implementation Guide.

14.10 TECHNICAL REQUIREMENTS.

14.10.1 General. Comply with USACE Army LEED Implementation Guide.

14.10.2 Materials Credits Implementation Strategy Plans in Full Design Contracts. In full design contract documents Materials Credit Implementation Strategy Plans shall be as follows (if credit is applicable):

Regional Materials MR5: Plan developed by Contractor (include requirement in specifications). Materials Reuse MR3: Plan developed by Designer (include in final design submittal, specify products).

Rapidly Renewable Materials MR6: Plan developed by Designer (include in final design submittal, specify products).

Recycled Content MR4: Plan developed by Designer (include in final design submittal, specify products) OR developed by Contractor (include requirement in specifications).

NOTE: EPA designated products (Comprehensive Procurement Guidelines) must always be researched and specified by Designer, regardless of this LEED credit.

Certified Wood MR7: Plan developed by Designer (include in final design submittal, specify products) OR developed by Contractor (include requirement in specifications).

All Implementation Strategy Plans developed by Designer shall be incorporated into contract specifications (as attachment(s) to UFGS 01 33 29 LEED DOCUMENTATION or similar method).

14.10.3 Fundamental Commissioning. See Chapter A-4 Mechanical.