

This is a guidance document with sample specification language intended to be inserted into project specifications on this subject as appropriate to the agency's environmental goals. Certain provisions, where indicated, are required for U.S. federal agency projects. Sample specification language is numbered to clearly distinguish it from advisory or discussion material. Each sample is preceded by identification of the typical location in a specification section where it would appear using the SectionFormat™ of the Construction Specifications Institute; the six digit section number cited is per CSI Masterformat™ 2004 and the five digit section number cited parenthetically is per CSI Masterformat™ 1995.

SECTION 01 81 10 (SECTION 01120) – FACILITY SERVICE LIFE REQUIREMENTS

SPECIFIER NOTE:

Sustainable Federal Facilities: A Guide to Integrating Value Engineering, Life-Cycle Costing, and Sustainable Development, Federal Facilities Council Technical Report No.142; 2001
<http://www.wbdg.org/ccbf/SUSFFC/fedsus.pdf> , states that the total cost of facility ownership, which includes all costs an owner will make over the course of the building's service lifetime, are dominated by operation and maintenance costs. On average, design and construction expenditures, "first costs" of a facility, will account for 5-10 % of the total life-cycle costs. Land acquisition, conceptual planning, renewal or revitalization, and disposal will account for 5-35 % of the total life-cycle costs. However, operation and maintenance will account for 60-85 % of the total life-cycle costs.

Service life planning can improve the economic and environmental impacts of the building. It manages the most costly portion of a building's life cycle costs, the operation and maintenance stage. And, by guiding appropriate and necessary investments over the course of the building's life cycle, increases the residual value of the building. Additionally, service life planning manages environmental impacts. Extending the service life of the building and reducing maintenance and replacements contributes to achieving sustainable development and preservation of scarce resources.

The process of service life planning can be applied to both existing buildings and new constructions. This will help facility managers by indicating anticipated future operations and cyclical maintenance. It may also be extended to provide cost plans for maintenance. However, not all maintenance can be foreseen and planned, and some provision should therefore be made for unforeseen costs.

For existing buildings, many of the choices have been predetermined; and, the building is already some way through its service life. Therefore, planning the service life for existing buildings will focus on assessing the residual service life of building elements and optimizing future operation and maintenance.

For new buildings, a preliminary service life plan should be developed during the design phase and updated during the construction phase to reflect specific building elements incorporated into the building. Buildings with very long design lives may need continual repair and replacement to achieve their design lives. Thus, ease of disassembly and reassembly to retain the existing building fabric may be a design objective, together with the ease of repair without causing damage.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Requirements for building design life.
 - 2. Requirements for building element design life.
 - 3. Requirements for building service life plan.
- B. Related Sections:
 - 1. 01 10 00 (01100) – Summary: Environmental Goals For Project.
 - 2. 01 43 50 (01435)– Continual Improvement Of Environmental Quality

Federal Green Construction Guide

Mary M. Carr



Federal Green Construction Guide:

Federal Green Construction Guide for Specifiers, 2004 **Green Building Materials** Ross Spiegel, Dru Meadows, 2010-11-09

GREEN BUILDING MATERIALS THE ULTIMATE USER'S MANUAL TO GREEN BUILDING MATERIALS To properly select and specify green building materials successful architects need authoritative real world advice on how to select and use nontoxic recycled and recyclable products and how to integrate these products into the design process in order to capitalize on the many practical and economic advantages of going green **Green Building Materials Third Edition** is the most reliable up to date resource to meet today's green building challenges from reducing waste and improving energy efficiency to promoting proper code compliance and safeguarding against liability claims Written by two nationally known experts on green building methods and materials **Green Building Materials Third Edition** offers in depth practical information on the product selection product specification and construction process This new Third Edition is an excellent hands on guide to today's newest range of green building materials what they are where to find them how to use them effectively and how to address LEED requirements Organized by CSI MasterFormat category for fast access to specific information it features A new chapter on eco labels green standards and product certification A new appendix providing reference information for sustainability standards and standards development organizations New sample specifications including green power requirements vegetated green roof systems rainwater harvesting and water reuse systems Revised and updated review of trends affecting the future of green building materials Updated approach and reference information for the product selection process **Green Building Materials Third Edition** is an essential tool for designing environmentally friendly buildings ones made from materials that preserve the Earth's natural legacy for future generations

The Green Library Planner Mary M. Carr, 2013-09-11 Green buildings are better buildings In fact buildings use 36% of the energy in the United States according to the Environmental Protection Agency so green buildings that use less energy help to address the very real challenges of reliance on fossil fuel and climate change More than only being environmentally responsible green libraries are beautiful cost effective high performance buildings that enhance occupant health and comfort **The Green Library Planner** is designed for members of library building design teams who typically are not actively engaged in architecture construction or engineering but who need an introduction to the rationale for green buildings the elements of green building and the language of the field It will be equally useful for public officials boards or administrators who are considering a new green library building a renovated library structure or sustainable elements for a current library facility Mary M Carr a library director who is also a LEED Accredited Professional with national certification first introduces the basic tenets of green building She then covers the gamut of green building from design through all phases of construction or renovation to operations and maintenance Chapter highlights include Fundamentals of Sustainable Building The Importance of Place Energy and Lighting Indoor Environmental Quality Water Conservation and

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Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations

Smith, Currie and Hancock's Common Sense Construction Law Thomas J. Kelleher, Jr., Smith, Currie & Hancock LLP, 2011-09-20 Be prepared with the bestselling guide to the laws that govern construction Knowledge of construction law and employment law is essential to running a successful construction business This Fourth Edition of the bestselling Smith Currie Hancock's Common Sense Construction Law provides a practical introduction to the significant legal topics and questions affecting construction industry professionals Like its popular previous editions this Fourth Edition translates the sometimes confusing theories principles and established rules that regulate the business into clear lay person's English This new edition updates the comprehensive scope of its predecessors with Coverage of the newly issued and recently revised industry standard contract documents produced by the AIA ConsensusDOCS and EJDCDC for 2007 2008 A CD featuring sample contracts and documents from AIA ConsensusDOCS and EJDCDC that familiarizes readers with these important documents and aids in understanding document citations in the book

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Handbook of Green Building Design and Construction Sam Kubba, 2016-10-15 Handbook of Green Building Design and Construction LEED BREEAM and Green Globes Second Edition directly addresses the needs of building professionals interested in the evolving principles strategies and concepts of green sustainable design Written in an easy to understand style the book is updated to reflect new standards to LEED In addition readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure data centers warehouses and existing buildings Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies that draws on over 35 years of personal experience from across the world

The Law of Green Buildings J. Cullen Howe, 2010 Examining the most important issues in achieving the goal of building more efficient and less damaging buildings this book highlights the significant statutes and regulations as well as other legal issues that need to be considered when advising clients in the development construction financing and leasing of a green building Topics include federal incentive programs financing alternative energy site selection land use planning green construction practices and materials emerging legal issues and the effects of climate change on planning and architectural design

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