



WBDG

WHOLE BUILDING DESIGN GUIDE

National Institute of Building Sciences

June 2 -5, 2002

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NIBS Enabling Legislation

Public Law 93-383, Sect. 809 (1974)



Public Law 93-383
84th Congress, 2d Sess.
August 13, 1974

809

To amend the ENERGY RESEARCH AND CONSERVATION ACT

to provide for the study and development of the

whole building design and construction of the

building and

to read:

SECTION 809. (a) The Secretary of Energy shall

conduct a study and report to the Congress on the

feasibility and

of the design and construction of the

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Congressional Rationale

- no authoritative source of advice on science and technology
- a serious and widespread lack of uniformity in building criteria
- unnecessary barriers against the use of innovative building systems

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NIBS Responsibilities

- Development, promulgation, and maintenance of performance criteria, standards, and other technical provisions
- Evaluation and prequalification of building technology
- Conduct needed investigations
- ***Assembly, storage and dissemination of technical information***

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Membership Categories

- Public Sector
 - Consumer
 - Architects
 - Engineers
 - Federal Government
 - State Government
 - Local Government
- Private (Industry) Sector
 - Building Construction
 - Labor Organizations
 - Housing
 - Product Manufacturers
 - Standards
 - Real Estate, Finance and Insurance
 - Research & Testing

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Governance

- NIBS' Governing Structure
 - Established by Authorizing Legislation
 - Requires a 21 Member Board of Directors
 - 15 Members elected by the Board representing industry categories
 - 6 Members selected by President of US with Senate confirmation
 - Required that Majority Must Represent Public Interest

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Councils and Committees

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- Board of Directors
- Consultative Council
- Building Environment and Thermal Envelope Council
- Building Seismic Safety Council
- Construction Metrication Council
- Facility Information Council
- Multi-hazard Mitigation Council
- Facility Maintenance and Operations Committee
- National Clearinghouse for Educational Facilities
- International Alliance for Interoperability
- **Whole Building Design Guide Board and Advisory Committee**

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WBDG Board of Direction

- Department of Defense
- Naval Facilities Engineering Command
- Army Corps of Engineers
- Air Force
- General Services Administration

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WBDG Advisory Committee

- Department of Defense
- Naval Facilities Engineering Command
- Army Corps of Engineers
- U.S. Air Force
- General Services Administration
- Department of Veterans Affairs
- National Aeronautics and Space Administration
- Federal Emergency Management Agency
- National Institute of Standards and Technology
- Department of Energy
- Department of State
- National Institutes of Health
- U.S. Access Board
- Department of Interior
- Environmental Protection Agency



Past Conditions

- Expensive Criteria Replication and Duplication
- Expensive Criteria Coordination
- Expensive Criteria Storage
- Expensive Criteria Distribution
- Redundant and Uncoordinated Efforts

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Construction Criteria Base (CCB)

- Primary criteria distribution system for
 - Army Corps of Engineers
 - Naval Facilities Engineering Command
 - Air Force
 - Guard and Reserve Units
 - General Services Administration, NASA and others
- CD-ROM, DVD, Website
- Over 12,000 documents
- Over 15 years
- Over 40,000 users

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Current Conditions

- Budget reductions
- Criteria similarities
- Reduced expertise
- Reliance on private sector criteria
- Redundant efforts

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WBDG Goal

... to provide a web portal for the
uniform access and use of facility
information in a ***knowledge based***
management environment.

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WBDG Objectives

- Implementation of ***unified design guidance*** to allow for the sharing and consolidation of criteria, procedures and dissemination.
- ***Partnering and integration*** of public and private sector efforts through the use of federal/private sector criteria

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- Provide single point access
- Provide public/private sector integration
- Promote unified/consolidated criteria
- Promote shared criteria development
- Facilitate criteria review and revision
- Reduce criteria development and distribution costs

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WBDG Structure

- Design Objectives
 - Aesthetic
 - Safe
 - Sustainable
 - Functional
 - Productive
 - Durable
 - Cost Effective
 - Accessible
- Building Types
- Systems and Products

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Whole Building Design Guide Demonstration

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