

CHANGES TO VOLUME II : BUILDING CODE

Definitions Page.

STATE OF ARKANSAS ARKANSAS FIRE PREVENTION CODE RULES 2007 EDITION

The following shall be defined as:

INTERNATIONAL PLUMBING CODE shall mean the Arkansas State Plumbing Code.

INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE is replaced by “Arkansas Department of Health Rules Pertaining to Onsite Wastewater Systems”.

INTERNATIONAL MECHANICAL CODE shall mean the Arkansas State Mechanical Code.

INTERNATIONAL FUEL GAS CODE shall mean the Arkansas State Gas Code.

INTERNATIONAL ENERGY CONSERVATION CODE shall mean the Arkansas Energy Code.

INTERNATIONAL FIRE CODE shall mean the Arkansas Fire Prevention Code, Volume I.

INTERNATIONAL BUILDING CODE shall mean the Arkansas Fire Prevention Code, Volume II.

INTERNATIONAL RESIDENTIAL CODE shall mean the Arkansas Fire Prevention Code, Volume III.

INTERNATIONAL ELECTRICAL CODE shall mean the Arkansas (National) Electrical Code.

BUILDING OFFICIAL shall mean any governmental official having authority to enforce that aspect of the Code.

Dotted lines in the margin indicate Arkansas revisions.

Solid Stars in the margin indicate Arkansas deletions.

Chapter 1, Administration

101.1 Title. The provisions of the following chapters shall constitute, be known, and be cited as the *Arkansas Fire Prevention Code, Volume II*, hereinafter known as “this Code”.

101.2 Scope.

Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than 3 stories above grade plane in height with a separate means of egress and ~~their~~ accessory structures shall comply with the *Arkansas Fire Prevention Code, Volume III*.

101.2.1 Appendices. Provisions in the appendices shall not apply unless specifically adopted. Appendices “D” and “E” are adopted by the State of Arkansas. Other appendices shall not apply unless adopted by local ordinance.

102.7 MEMORANDUM OF UNDERSTANDING-HEALTH CARE FACILITIES.

This Memorandum of Understanding will specify and serve as a method to resolve conflicts between the 2007 Arkansas Fire Prevention Code Rules (hereinafter “Arkansas Fire Prevention Code” or “AFPC”) adopted and enforced by the Arkansas State Fire Marshal’s Office, under the authority of the Director of the Department of the Arkansas State Police, and other federal or state rules governing Arkansas’ health care and long-term care facilities, by law regulated by the Arkansas Department of Health and the Arkansas Department of Human Services, Division of Medical Services, Office of Long-Term Care, among others.

1. The Arkansas Department of Health and the Arkansas Department of Human Services, Division of Medical Services, Office of Long-Term Care will have inspectors and/or plan reviewers obtain training related to the implementation and application of the National Fire Protection Association Life Safety Code (NFPA 101) and the Arkansas Fire Prevention Code.
2. The Arkansas Department of Health will have concurrent authority to do Fire and Life Safety Code inspections in health care facilities regulated by the Arkansas Department of Health. The Arkansas Department of Human Services, Division of Medical Services, Office of Long-Term Care, will have concurrent authority to do Fire and Life Safety inspections in long-term care facilities regulated by the Arkansas Department of Human Services, Division of Medical Services, Office of Long-Term Care. The Arkansas Department of Health’s authority and the authority of the Arkansas Department of Human Services, Division of Medical Services, Office of Long-Term Care will be concurrent with the current authority of any other relevant federal, state or local government agency having authority to do said inspections.
3. The Arkansas Fire Prevention Code is the fire prevention code for the State of Arkansas.
4. When there is a conflict between the Arkansas Fire Prevention Code and the National Fire Protection Association Life Safety Code (NFPA 101), New Health Care Occupancies Chapter, Existing Health Care Occupancies Chapter, New

Ambulatory Health Care Occupancies Chapter, and Existing Ambulatory Health Care Occupancies Chapter, as adopted by the United States Department of Health and Human Services, Centers for Medicare Medicaid Services, per Title 42 Code of Federal Regulations, the aforementioned chapters in the Life Safety Code shall govern.

5. For new construction, when one of the affected agencies (Arkansas Department of Health, Arkansas Department of Human Services, Division of Medical Services, Office of Long-Term Care, local fire official, or local building official) determines or perceives that a conflict exists between the Arkansas Fire Prevention Code and the National Fire Protection Association Life Safety Code (NFPA 101), as it relates to types of construction or allowable area requirements, they shall provide written notification of the perceived conflict to the project architect or engineer and the other affected agencies. The agency alleging the conflict will convene a meeting with the other affected agencies to resolve the conflict. The resolution of the conflict must be unanimous. If the group is unable to resolve the conflict unanimously, the issue will be referred to the Arkansas State Fire Marshal for final resolution.

Agreed to as evidenced by the signatures of the participating Parties for their respective offices or associations below:

Arkansas State Fire Marshal, and Director of Arkansas State Police or his designee
Colonel Winford E. Phillips, Director of Department of Arkansas State Police
Lt. Lindsey Williams, Arkansas State Fire Marshal

Arkansas Hospital Association
Mr. Phil E. Matthews, President and Chief Operating Officer

Arkansas Department of Health
Dr. Paul Halverson, Director and State Health Officer

Arkansas Department of Human Services
Mr. John Selig, Director, Arkansas DHS

Arkansas Fire Chiefs' Association
Chief George Glenn

Arkansas Fire Marshals' Association
Fire Marshal Travis Hollis

Code Officials of Arkansas Chapter of International Code Council ("ICC")
Mr. Wally Bailey

101.4.1 Electrical. The provisions of the *Arkansas (National) Electric Code (NFPA 70)* (Arkansas Department of Labor, Electrical Examiners Office, current phone 501-628-4548 until further notice) shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

101.4.2 Gas. The provisions of the *Arkansas Gas Code*, (Arkansas Department of Health, current phone 501-661-2642 until further notice), shall apply to the installation of gas piping from the point of delivery, gas appliances and related accessories as covered in the code. These requirements apply to gas piping systems extending from the point of delivery to the inlet connections of appliances and the installation and operation of residential and commercial gas appliances and related accessories.

101.4.3 Mechanical. The provisions of the *Arkansas Gas Code, Arkansas Mechanical Code* shall apply to the installation, alterations, repairs and replacement of mechanical systems, including equipment, appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air-conditioning and refrigeration systems, incinerators and other energy-related systems.

101.4.4 Plumbing. The provisions of the *Arkansas State Plumbing and Gas Code*, (Arkansas Department of Health, current phone 501-661-2642 until further notice), shall apply to the installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system.

Section 101.4.5 Deleted in its entirety

101.4.6 Fire prevention. The provisions of the *Arkansas Fire Prevention Code, Volume I*, shall apply to matters affecting or relating to structures, processes, and premises from the hazard of fire and explosion arising from the storage, handling, or use of structures, materials or devices; from conditions hazardous to life, property, or public welfare in the occupancy of structures or premises; and from the construction, extension, repair, alteration, or removal of fire suppression and alarm systems or fire hazards in the structure or on the premises from occupancy or operation.

101.4.7 Energy. The provisions of the *Arkansas Energy Code* shall apply to all matters governing the design and construction of buildings for energy efficiency.

102.6 Existing structures. The legal occupancy of any structure existing on the date of adoption of this Code shall be permitted to continue without change, except as is specifically covered in the *Arkansas Fire Prevention Code, Volumes I and II*, or as deemed necessary by the building official and/or fire official for the general safety and welfare of the occupants and the public.

103.1 Creation of enforcement agency. Local jurisdictions are authorized to establish a department to be called the Building Department and the person in charge shall be known as the Building Official.

103.2 Deleted in its entirety

103.3 Deputies. In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the building official shall have the authority to appoint a deputy building official, related technical officers, inspectors, plan examiners, and other employees. Such employees shall have powers as delegated by the building official.

105.1 Required. Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this Code, or to cause any such work to be done, shall first make application to the building official and obtain the required permit. If there is no building official appointed, the owner, authorized agent, or contractor shall make application to the State Fire Marshal.

105.2 Work exempt from permit. [Deleted all text after Item 13]

105.3.3 Permit issued on basis of an affidavit. Whenever a permit is issued in reliance upon an affidavit or whenever the work to be covered by a permit involves installation under conditions which, in the opinion of the building official, are hazardous or complex, the building official shall require that the architect or engineer who signed the affidavit or prepared the drawings or computations shall supervise such work. In addition, he or she shall be responsible for conformity with the permit, provide copies of inspection reports as inspections are performed, and upon completion make and file with the building official a written affidavit that the work has been done in conformity with the reviewed plans and with the structural provisions of the technical codes. In the event such architect or engineer is not available, the owner shall employ in his/her stead a competent person or agency whose qualifications are reviewed by the building official.

106.1 Submittal documents. Construction documents, statement of special inspections, and other data shall be submitted in one or more sets with each permit application. The construction documents shall be prepared by a registered design professional where required by the Code or statutes of the jurisdiction in which the project is to be constructed. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional. The design professional shall be an architect or engineer legally registered under the laws of this state regulating the practice of architecture or engineering and shall affix his or her official seal to said drawing, specifications and accompanying data, for the following:

1. All Group A, E, and I occupancies, except Group A occupancies with an occupant

- load less than or equal to 50;
- 2. Buildings and structures 3 or more stories in height; and
- 3. Buildings and structures 5,000 square feet or more in area.

For all other buildings and structures, the submittal shall bear the certification of the applicant that some specific state law exception permits its preparation by a person not so registered.

Exception: The building official is authorized to waive the submission of construction documents and other data not required to be prepared by a registered design professional, if it is found that the nature of the work applied for is such that review of construction documents is not necessary to obtain compliance with this Code.

106.1.4 Structural and fire resistance integrity. Plans for all buildings shall indicate how required structural and fire resistance integrity will be maintained where a penetration of a required fire resistant wall, floor, or partition will be made for electrical, gas, mechanical, plumbing and communication conduits, pipes and systems. Such plans shall also indicate in sufficient detail how the fire integrity will be maintained where required fire resistant floors intersect the exterior walls and where joints occur in required fire resistant construction assemblies.

106.1.5 Hazardous occupancies. The building official may require the following:

1. **General site plan.** A general site plan drawn at a legible scale which shall include, but not be limited to, the location of all buildings, exterior storage facilities, permanent access ways, evacuation routes, parking lots, internal roads, chemical loading areas, equipment cleaning areas, storm and sanitary sewer accesses, emergency equipment and adjacent property uses. The exterior storage areas shall be identified with the hazard classes and the maximum quantities per hazard class of hazardous materials stored within.

2. **Building floor plan.** A building floor plan drawn to a legible scale which shall include, but not be limited to, all hazardous materials storage facilities within the building and shall indicate rooms, doorways, corridors, exits, fire rated assemblies with their hourly rating, location of liquid-tight rooms, and evacuation routes. Each hazardous material storage facility shall be identified on the plan with the hazard classes and quantity range per hazard class of the hazardous materials stored within.

106.1.6 Plans and specifications. Plans and specifications shall be submitted to the State Fire Marshal and their approval secured before construction or substantial remodeling of any of the following classes of building is started, or before a change in occupancy to one of the following classes is made, if not approved by the local authority having jurisdiction:

- 1. Asylums, hospitals, nursing or convalescent homes, or other health care facilities, regardless of capacity;

2. Schools and educational institutions having a capacity in excess of 50 pupils, and residence buildings, including dormitories, having sleeping accommodations for 50 or more persons;

3. Auditoriums, theaters, indoor stadiums, gymnasiums, churches, or other places of assembly having a capacity in excess of one hundred (100) or more persons; or

4. Department stores or factories having a capacity in excess of 200 persons.

106.1.7 Cover Sheet and plan certification requirements. Plans and specifications shall contain the following items and information when submitted to the State Fire Marshal's Office or Authority Having Jurisdiction:

1. An architect's stamp and signature or engineer's stamp and signature shall be placed on the front page of each plan submitted and an architect's stamp or engineer's stamp shall be placed on each subsequent page of the plans. Architects and engineers must be registered by the State of Arkansas.

2. The following paragraph shall be placed on the front page of the plans and blueprints with the registered architect's or engineer's signature:

"I hereby certify that these plans and specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire Prevention Code for the State of Arkansas."

3. On the front page of the plans or blueprints, the following information is to be noted regarding the project:

(A) The occupancy classification(s) and occupancy loads (existing and proposed) (Chapter 5, volume II);

(B) The Type of Construction (existing and proposed) (Chapter 6, volume II) includes sprinkled or non-sprinkled;

(C) Allowable height and building area per floor (Table 503, Chapter 5 Volume II);

(D) Floor areas (existing and proposed), as follows:

a. Area, gross floor (Chapter 2 Volume II) for each floor of all buildings.

b. Area, net floor (Chapter 3 Volume II) for the following occupancies;

1. Assembly occupancies;

2. Bowling alleys;

3. Restaurants;

4. All educational occupancies (including uses above the 12th Grade);

5. Library reading rooms.

When mixed occupancies exist, all occupancies; floor areas will be calculated and listed separately in accordance with the above guidelines;

(E) Separation distances for each exterior wall to assumed and common property lines (Chapter 2 Volume II); and

(F) Exit access corridor protection requirements.

4. In accordance with Arkansas Act 1100 of 1991 (A.C.A. §§12-80-101 through §12-80-106 as amended), the structural plans of each public building and structure shall bear the following:

(A) Licensed Arkansas Engineer's seal and signature;

(B) A statement of reference to what seismic zone the structure is designed to satisfy;
and

(C) Information required by Chapter 16 of Volume II of the Arkansas Fire Prevention Code.

106.3.4.3 Affidavits. The building official may accept a sworn or affirmed affidavit from a registered architect or engineer stating that the plans submitted conform to the technical codes. For buildings and structures, the affidavit shall state that the plans conform to the laws as to egress, type of construction, and general arrangement and, if accompanied by drawings, show the structural design and that the plans and design conform to the requirements of the technical codes as to strength, stresses, strains, loads and stability. The building official may without any examination or inspection accept such affidavit, provided the architect or engineer who made such affidavit agrees to submit to the building official copies of inspection reports as inspections are performed; and submits copies of inspection reports upon completion of the structure, electrical, gas, mechanical or plumbing systems with his/her a certification that the structure, and each electrical, gas mechanical or plumbing system has been erected in accordance with the requirements of the technical codes. Where the building official relies upon such affidavit, the architect or engineer shall assume full responsibility for the compliance with all provisions of the technical codes and other pertinent laws or ordinances.

107.3 Temporary power. The building official is authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in the *Arkansas (National) Electrical Code (NFPA 70)*.

Chapter 2, Definitions

Section 202. Definitions

FIRE OFFICIAL. The officer or other designated authority, or his/her duly authorized representative, charged with the administration and enforcement of the Fire Prevention Code.

Chapter 3, Use and Occupancy Classification

305.2 Day care. The use of a building or structure, or portion thereof, for educational, supervision or personal care services for more than 5 children older than 2 ½ years of age shall be classified as an “E” occupancy. Day Care (Child Care) Facilities shall meet the provisions of NFPA 101, the Arkansas Fire Prevention Code, and the following:

1. Day care facilities that are licensed (or making application for a license) to have 16 or fewer children shall follow the guidelines for Day Care Homes as set out in NFPA 101, 2003 Edition.

2. Day care facilities that are licensed (or making application for a license) to have 17 children or more shall follow the guidelines for day care centers as set out in NFPA 101, 2003 Edition.
3. The staff-to-client ratios referred to in Chapters 16 and 17 are amended to follow the ratios adopted by the Arkansas Department of Human Services, Division of Child Care and Early Childhood Education, Child Care Licensing (current phone 501-682-8590 until further notice):
 - a. Child Care Centers, 2006;
 - b. Day Care Family Homes, 2006; and
 - c. Minimum Licensing Standard for Child Welfare Agencies, 2006. (This includes Residential Care Child Care Facilities, Emergency Residential Child Care Facilities, Psychiatric Residential Treatment Facilities, and Sexual Offender Programs)
4. The fire authority retains the authority to enforce the more stringent ratios if it is determined the facility needs the more stringent ratios in order to assure fast and safe evacuation of the facility in an emergency for life safety.

308.5.2 Child Care facility. A facility that provides supervision and personal care on less than a 24-hour basis for more than 5 children 2 ½ years of age or less shall be classified as Group I-4.

Exception: A child day care facility that provides care for more than 5 but no more than 100 children 2 ½ years or less of age, when the rooms where such children are cared for are located on the level of exit discharge and each of these child care rooms has an exit door directly to the exterior, shall be classified as Group “E”.

Exception: The definition of Day Care occupancies shall meet the provisions of the Arkansas Fire Prevention Code and NFPA 101, 2003 Edition. The definitions of day care occupancies as set out in NFPA 101, 2003 Edition shall be amended per Department of Human Services Division of Child Care capacities.

Number of Occupants	Usage
Less than 6 6, but less than 11	R-3 Occupancy Family Day Care Home, NFPA 101, 2003 Edition
11, but less than 17	Group Day Care Home, NFPA 101, 2003 Edition
More than 16, but less than 100	Day Care Occupancy, NFPA 101, 2003 Edition
Any usage 100 or more	Group E or I Occupancy

Chapter 4, Special Detailed Requirements Based On Use And Occupancy No changes

Chapter 5, General Building Heights And Areas No changes

Chapter 6, Types Of Construction No changes

Chapter 7, Fire-Resistance-Rated Construction No changes

Chapter 8, Interior Finishes No changes

Chapter 9, Fire Protection Systems No changes

Chapter 10, Means Of Egress No changes

Chapter 11, Accessibility No changes

Chapter 12, Interior Environment No changes

Chapter 13, Energy Efficiency No changes

Chapter 14, Exterior Walls No changes

Chapter 15, Roof Assemblies And Rooftop Structures No changes

Chapter 16, Structural Design

1613.1 Scope.

Exception.

5. Buildings and other structures of a Category I or II occupancy as described in Table 1604.5 of this chapter, or in ASCE 7-05, Table 1-1, may be designed to alternative provisions found in Appendix L of the Arkansas Fire Prevention Code, Volume II, 2007 Edition so long as Appendix L has been adopted by local ordinance in the locality in which the building or other structure is to be constructed.

Section 1613.7 Modifications to ASCE 7

The text of ASCE 7 shall be modified as indicated in Sections 1613.7.1 through 1613.7.2.

1613.7.1 ASCE 7, Section 12.8.1 Calculation of Seismic Response Coefficient. Modify equation 12.8-5 as follows:

$$C_s = 0.044S_{DS}I \geq 0.01 \quad (\text{Eq. 12.8-5})$$

1613.7.2 ASCE 7, Section 15.4.1(2). Modify subsection (2) as follows:

2. For non-building systems that have an R value provided in Table 15.4-2, the seismic response coefficient (C_s) shall not be taken less than

$$C_s = \underline{0.044S_{DS}I} \geq 0.03 \quad (15.4-1)$$

and for non-building structures located where $S_1 \geq 0.6g$, C_s shall not be taken less than

(15.4-2)

EXCEPTION: Tanks and vessels that are designed to AWWA D100, AWWA D103, API 650 Appendix E, and API 620 Appendix L as modified by this standard, shall be subject to the larger of the minimum base shear values defined by the reference document or the following equations:

$$C_s = 0.044S_{DS}I \geq 0.01 \quad (15.4-3)$$

and for non-building structures located where $S_1 \geq 0.6g$, C_s shall not be taken less than

(15.4-4)

Minimum base shear requirements need not apply to the convective (sloshing) component of liquid in tanks.

Chapter 17, Structural Tests And Special Inspections No Changes

Chapter 18, Soils And Foundations No changes

Chapter 19, Concrete No changes

Chapter 20, Aluminum No changes

Chapter 21, Masonry No changes

Chapter 22, Steel No changes

Chapter 23, Wood No changes

Chapter 24, Glass And Glazing No changes

Chapter 25, Gypsum Board And Plaster No changes

Chapter 26, Plastic No changes

Chapter 27, Electrical No changes

Chapter 28, Mechanical Systems No changes

Chapter 29, Plumbing Systems No changes

Chapter 30, Elevators and Conveying Systems

3006.5 Shunt trip. Where elevator hoistways or elevator machine rooms containing elevator control equipment are protected with automatic sprinklers, a means installed in accordance with NFPA 72, Section 3-9.4, Elevator Shutdown, shall be provided to disconnect automatically the main line power supply to the affected elevator prior to or upon the application of water. This installed means shall not be self-resetting. The activation of sprinklers outside the hoistway or machine room shall not disconnect the main line power supply.

Chapter 31, Special Construction No changes

Chapter 32, Encroachments Into The Public Right-Of-Way No changes

Chapter 33, Safeguards During Construction No changes

Chapter 34, Existing Structures

3401.3 Compliance with other codes. Alterations, repairs, additions, and changes of occupancy to existing structures shall comply with the provisions for alterations, repairs, additions, and changes of occupancy in the *Arkansas Fire Prevention Code, Volume I, Arkansas State Gas Code, Arkansas State Mechanical Code, Arkansas State Plumbing Code, Arkansas Department of Health Rules and Regulations Pertaining to Onsite Wastewater Systems, Designated Representatives and Installers, Arkansas Fire Prevention Code, Volume III, and Arkansas (National) Electrical Code.*

3401.4 International Existing Building Code (IEBC). The provisions of the *International Existing Building Code*, including Appendix A but not including Appendix B, are allowed to be substituted in their entirety in lieu of the requirements found in Chapter 34 of this Code. The owner or his/her registered design professional must provide written notification to the building official stating which option is being used. The mixing of requirements found in Chapter 34 of this Code and requirements found in the *International Existing Building Code* is prohibited. The chosen option shall also be listed on the plans at the time permits are issued. If the *International Existing Building Code* is chosen as the compliance option, Resource A, contained in the *International Existing Building Code*, may be used as a guideline by the registered design professional(s) and the building official(s) for determination of fire ratings of archaic materials and assemblies.

NOTICE: Resource A is not adopted as part of the Arkansas Fire Prevention Code.

3410.2 Applicability. Structures existing prior to November 1, 1958, in which there is work involving additions, alterations, or changes of occupancy shall be made to conform to the requirements of this section or the provisions of Sections 3403 through 3407. The provisions in Sections 3410.2.1 through 3410.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, M, R, S and U. These provisions shall not apply to buildings with occupancies in Group H or I.

Chapter 35, Reference Standards No changes

Appendix A, Employee Qualifications Delete in its entirety

Appendix B, Board of Appeals Delete in its entirety

Appendix C, Group U-Agricultural Buildings Delete in its entirety

Appendix D, Fire Districts No changes

Appendix E, Supplementary Accessibility Requirements No changes

Appendix F, Rodent-proofing Delete in its entirety

Appendix G, Flood-Resistant Construction Delete in its entirety

Appendix H, Signs Delete in its entirety

Appendix I, Patio covers Delete in its entirety

Appendix J, Grading Delete in its entirety

Appendix K, ICC Electrical Code Delete in its entirety

Appendix L, Alternate Seismic Design Requirements For Category I and II Buildings

APPENDIX L

ALTERNATE SEISMIC DESIGN REQUIREMENTS FOR CATEGORY I AND II BUILDINGS

SECTION L101

L101.1 Scope. This Appendix provides an alternative to seismic design requirements found in Chapter 16 regarding buildings and other structures classified as Category I and II occupancies

meeting the criteria outlined in Section L102. The provisions in this Appendix shall not apply unless specifically adopted by local ordinance.

SECTION L102

L102.1 Criteria. Projects electing to use this alternative must be buildings or other structures classified as Category I or II occupancies as described in Table 1604.5, Arkansas Fire Prevention Code, Volume II, 2007 Edition, or in ASCE 7-05, Table 1-1, and must be constructed for manufacturing or industrial occupancy or for public works.

SECTION L103

L103.1 Structural Design Requirements.

In the case of eligible projects, the mapped 0.2-second and 1.0-second spectral response accelerations shown in IBC 2006 Figures 1613.5(1), 1613.5(2), 1613.5(7), and 1613.5(8) [ASCE 7-05 Figures 22-1, 22-2, 22-7, and 22-8], which reference a 2% probability of exceeding the design seismic event in a 50-year period may be substituted with mapped 0.2-second and 1.0-second spectral response accelerations documented in the "1997 NEHRP Recommended Provisions for Seismic Regulations for New Buildings", which reference a 10% probability of exceeding the design seismic event in a 50-year period.

L103.2 Designed Spectral Acceleration Parameters.

If Alternate mapped spectral response accelerations as noted in Section L103.1 are used, the following equations shall be substituted for equations 16-39 and 16-40 in IBC 2006 [equations 11.4-3 and 11.4-4 in ASCE 7-05].

$$SDS = \frac{2}{3} SMS \quad (\text{Equation 16-39, IBC 2006}) \quad [(11.4-3), \text{ASCE 7-05}]$$

$$SD1 = \frac{2}{3} SM1 \quad (\text{Equation 16-40, IBC 2006}) \quad [(11.4-4), \text{ASCE 7-05}]$$

L103.3 Seismic Base Shear.

If Alternate mapped spectral response accelerations as noted in Section L103.1 are used, the design seismic base shear, V , in any given direction, shall not be less than that determined in accordance with the requirements of Section 1607 of the 1997 edition of the Standard Building Code.