

CALIFORNIA CODES
HEALTH AND **SAFETY CODE**
SECTION **16000**-16001

16000. This chapter shall be known and may be cited as the Essential Services Buildings Seismic **Safety** Act of 1986.

16001. It is the intent of the Legislature that essential services buildings, which shall be capable of providing essential services to the public after a disaster, shall be designed and constructed to minimize fire hazards and to resist, insofar as practical, the forces generated by earthquakes, gravity, and winds. It is also the intent of the Legislature that the structural systems and details set forth in working drawings and specifications be carefully reviewed by the responsible enforcement agencies using qualified personnel, and that the construction process be carefully and completely inspected. In order to accomplish these purposes, the Legislature intends to provide for the establishment of building standards for earthquake, gravity, fire, and wind resistance based upon current knowledge, and intends that procedures for the design and construction of essential services buildings be subjected to qualified design review and construction inspection.

It is further the intent of the Legislature that the nonstructural components vital to the operation of essential services buildings shall also be able to resist, insofar as practical, the forces generated by earthquakes, gravity, fire, and winds. The Legislature recognizes that certain nonstructural components housed in essential services buildings, including, but not limited to, communications systems, main transformers and switching equipment, and emergency backup systems, are essential to facility operations and that these nonstructural components should be given adequate consideration during the design and construction process to assure, insofar as practical, continued operation of the building after a disaster.

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SECTION **16002-16008**

16002. Unless the context otherwise requires, the definitions in this article govern the construction of this chapter.

16003. "Architect" means a person who is certified under Chapter 3 (commencing with Section 5500) of Division 3 of the Business and Professions **Code**.

16004. "Civil engineer" means a person who is registered as a civil engineer under Chapter 7 (commencing with Section 6700) of Division 3 of the Business and Professions **Code**.

16005. "Construction or alteration" includes any construction of, addition to, reconstruction of, or alteration to any essential services building.

16006. "Enforcement agency" means the agency of a city, city and county, or county responsible for building **safety** within its jurisdiction. The office of the State Architect is the enforcement agency for state-owned facilities or facilities leased by the state.

16007. "Essential services building" means any building, including buildings designed and constructed, for public agencies used, or designed to be used, or any building a portion of which is used or designed to be used, as a fire station, police station, emergency operations center, California Highway Patrol office, sheriff's office, or emergency communication dispatch center.

16008. "Structural engineer" means a person who is authorized to use the title structural engineer under Chapter 7 (commencing with Section 6700) of Division 3 of the Business and Professions **Code**.

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SECTION **16009**-16016

16009. The appropriate enforcement agency which meets the requirements of Sections 16017 and 16018 shall review the design and inspect the construction of essential services buildings or the reconstruction, alteration, or addition to any essential services building to the extent it deems necessary to ensure that:

(1) When the enforcement agency is a local agency, drawings and specifications comply with the locally adopted editions of the model codes, as defined in Section 18916, the administrative regulations contained in Part 1 (commencing with Section 1-101) of Title 24 of the California **Code** of Regulations, and the regulations contained in Part 2 (commencing with Section 101), except for Chapters 23 to 30, inclusive, and Chapter 47 of Title 24 of the California **Code** of Regulations.

(2) When the enforcement agency is the Office of the State Architect, that drawings and specifications comply with all parts of the State Building Standards **Code**, as contained in Title 24 of the California **Code** of Regulations, as adopted by that agency.

(3) For the protection of life and property that the work of construction has been performed in accordance with the approved drawings and specifications and this chapter.

16010. Essential services buildings of one-story Type V and Type II N construction that are 2,000 square feet or less in floor area are exempt from the provisions of this chapter.

16011. Unless a contract for the construction or alteration of an essential services building is entered into prior to July 1, 1986, before adopting any drawings or specifications for the essential services building, the governing board, authority, owner, corporation, or other agency proposing to construct any essential services building shall submit the design calculations, drawings, and specifications of the essential services buildings to the appropriate enforcement agency. The enforcement agency shall stamp the drawings and specifications if the construction or alteration is approved by the enforcement agency. Included with the stamp shall be the signature of the qualified person referred to in Section 16018 or Section 16019.

16012. In each case, the application for approval of the drawings and specifications for essential services buildings shall be accompanied by comprehensive and complete drawings, design calculations, and specifications, and required fees, all of which shall comply with the requirements prescribed by the enforcement agency. This review shall not preclude incremental submission and approval of drawings and specifications.

16013. The enforcement agency shall approve or reject all drawings and specifications for the construction or the alteration of all essential services buildings, and in doing so, shall review the design calculations, drawings, and specifications to ensure compliance with the requirements of this chapter. A record shall be kept by the enforcement agency indicating that design calculations, drawings, and specifications have been reviewed and conform with:

(1) When the enforcement agency is a local agency, the locally adopted editions of the model codes, as defined in Section 18916, the administrative regulations contained in Part 1 (commencing with Section 1-101) of Title 24 of the California **Code** of Regulations, and the regulations contained in Part 2 (commencing with Section 101), except for Chapters 23 to 30, inclusive, and Chapter 47 of Title 24 of the California **Code** of Regulations.

(2) When the enforcement agency is the Office of the State Architect, all parts of the State Building Standards **Code**, as contained in Title 24 of the California **Code** of Regulations and adopted by that agency.

16014. (a) Except as otherwise provided in subdivision (b), drawings and specifications submitted pursuant to this chapter for construction, reconstruction, remodeling, additions, or alterations which affect structural elements of structures in existence on January 1, 1986, shall be based upon an assessment of the geological conditions of the site and the potential for earthquake damage, relying upon geologic and engineering investigations and studies by personnel who are competent to report on geologic conditions and their potential for causing earthquake damage. One-story Type V and Type II N construction of 4,000 square feet or less shall be exempt from this section, unless the project is within a special studies zone established pursuant to Section 2622 of the Public Resources **Code**.

(b) The requirements of subdivision (a) may be waived by the enforcement agency if it determines that these requirements for the proposed essential services building project are unnecessary and would not be beneficial to the **safety** of the public.

16015. All drawings and specifications shall be prepared under the responsible charge of an architect, civil engineer, or structural engineer, who shall sign all drawings and specifications for approval of the enforcement agency. Observation of the work of construction shall be under the general responsible charge of the same architect, civil engineer, or structural engineer when feasible, as determined by the enforcement agency, except that if drawings and specifications do not involve architectural or structural conditions, the drawings and specifications may be prepared and the work of construction may be administered by a registered professional engineer qualified in the branch of engineering that is appropriate to the drawings, specifications, estimates, and work of construction.

16016. Except as provided in Section 16011, on and after July 1, 1986, construction of an essential services building shall not begin unless the drawings and specifications comply with this chapter and

the requirements prescribed by the enforcement agency and approval of those drawings and specifications has been obtained from the enforcement agency.

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SECTION **16017-16022**

16017. During construction or alteration of an essential services building, the building owner shall provide for, and the local enforcement agency shall require, competent, adequate, and detailed inspection by a qualified inspector. To be qualified, inspectors shall have an adequate level of expertise and experience in the subject matter for which they have responsibilities for inspection as prescribed by this section. Qualification shall include current certification by the International Conference of Building Officials; or qualifications as an inspector meeting the requirements of subdivision (a) of Section 305 and subdivision (b) of Section 306 of, the 1982 Edition of the Uniform Building **Code**. Additionally, the architect, civil engineer, or structural engineer responsible for designing the essential services facility is qualified to inspect construction of the facility.

16017.5. (a) Notwithstanding any provision of law to the contrary, including, but not limited to, Title 15 (commencing with Section 3082) of Part 4 of the Civil **Code**, the Department of General Services may issue a stop work order when construction work on an essential services facility is not being performed in accordance with existing law and would compromise the structural integrity of the building, thereby endangering the public **safety**. The Department of General Services shall allow construction of incidental and minor nonstructural additions or nonstructural alterations without invoking its stop work authority.

(b) A public board, body, or officer whose construction work on an essential services facility is subject to a stop work order issued pursuant to subdivision (a) shall not be held liable in any action filed against the public board, body, or officer for stopping work as required by the stop work order, or for any delays caused by compliance with the stop work order, except to the extent that an error or omission by the public board, body, or officer is the basis for the issuance of the stop work order.

16017.5. (a) Notwithstanding any provision of law to the contrary, including, but not limited to, Part 6 (commencing with Section 8000) of Division 4 of the Civil **Code**, the Department of General Services may issue a stop work order when construction work on an essential services facility is not being performed in accordance with existing law and would compromise the structural integrity of the building, thereby endangering the public **safety**. The Department of General Services shall allow construction of incidental and minor nonstructural additions or nonstructural alterations without invoking its stop work authority.

(b) A public board, body, or officer whose construction work on an essential services facility is subject to a stop work order issued pursuant to subdivision (a) shall not be held liable in any action filed against the public board, body, or officer for stopping work as required by the stop work order, or for any delays caused by

compliance with the stop work order, except to the extent that an error or omission by the public board, body, or officer is the basis for the issuance of the stop work order.

16018. An enforcement agency is qualified to undertake the review of plans, drawings, and specifications for essential services buildings if the enforcement agency has an architect, civil engineer, or structural engineer on its staff or under contract who is responsible for all design review conducted by the enforcement agency and the record prepared under Section 16013.

16019. A jurisdiction whose enforcement agency does not meet the qualifications specified in Sections **16017** and 16018 shall obtain necessary qualified personnel to meet the requirements of this chapter by contracting with other public agencies, private sector firms, or individuals qualified to perform the necessary services.

16020. Periodically, as the work of construction or alteration progresses and whenever the enforcement agency requires, except as exempt under Section 16010, the architect, civil engineer, or structural engineer in general responsible charge of the work of construction, and the registered engineer shall make a report, duly verified by him or her through periodic review of construction, showing that the work during the period covered by the report has been performed and that the materials used and installed are in accordance with the approved drawings and specifications, setting forth any detailed statements of fact required by the enforcement agency.

"Periodic review of construction," as used in this section and as applied to the architect, civil engineer, or structural engineer and the registered engineer, means the knowledge which is obtained from periodic visits to the project site of reasonable frequency for the purpose of general observation of the work, and also which is obtained from the reporting of others as to the progress of the work, testing of materials, inspection and superintendence of the work that is performed between those periodic visits of the architect, civil engineer, or structural engineer, or the registered engineer. The exercise of reasonable diligence to obtain the facts is required. The term "periodic review of construction" does not include responsibility for superintendence of construction processes, site conditions, operations, equipment, personnel, or the maintenance of a safe place to work or any **safety** in, on, or about the site of work.

16021. Periodically, as the work of construction or alteration progresses and whenever the enforcement agency requires, except as exempt under Section 16010, the inspector on the work and the contractor shall each make a report, duly verified by him or her, showing in his or her own personal knowledge, that the work during the period covered by the report has been performed and that the materials used and installed are in accordance with the approved

drawings and specifications, setting forth any detailed statements of fact required by the enforcement agency.

"Personal knowledge" as applied to the inspector, means the actual personal knowledge which is obtained from his or her personal continuous inspection of the work of construction in all stages of its progress at the site where he or she is responsible for inspection and when work is carried out away from the site, that personal knowledge which is obtained from the reporting of others of the testing or inspection of materials and workmanship for compliance with plans, specifications, or applicable standards. The exercise of reasonable diligence to obtain the facts is required.

"Personal knowledge," as applied to the contractor, means the personal knowledge which is obtained from the construction of the building. The exercise of reasonable diligence to obtain the facts is required.

16022. The State Architect shall do all of the following:

(a) Observe the implementation and administration of this chapter.

(b) Establish and adopt, in consultation with the League of Cities, County Supervisors Association, and California Building Officials, those regulations deemed necessary for carrying out this chapter.

(c) Provide advice and assistance to local jurisdictions regarding essential services buildings.

(d) Hear appeals relative to the administration of this chapter.

The State Architect may establish an advisory committee to assist the State Architect with his or her responsibilities under this chapter. The State Architect shall periodically inform the Seismic **Safety** Commission and the State Fire Marshal with respect to the implementation and the administration of this chapter.