

**Alternative Seismic Design Category Determination****IBC §1613.3.5.1**

Where  $S_1 < 0.75$ , the *Seismic Design Category* is permitted to be determined from *IBC Table 1613.3.5(1) alone* (i.e., using  $S_{DS}$  only) when all of the following apply:

- ✓  $T_x < 0.8 T_y$  in each of the two orthogonal directions, and
- ✓ the fundamental period of the structure used to calculate the story drift -  $T < T_y$  ... in each of the two orthogonal directions, and
- ✓ *ASCE 7 (12.8-2)* is used to determine the seismic response coefficient ...  $C_s = \frac{S_{DS}}{(R/I_e)}$ , and
- ✓ The diaphragms are rigid (per *ASCE 7 – §12.5.1*) or for diaphragms that are flexible, the distance between vertical elements of the seismic force-resisting system (SFRS)  $\leq 40$  feet

**Simplified Design Procedure****IBC §1613.3.5.2**

Where the alternate Simplified Design Procedure of *ASCE 7 – §12.14* is used, the *Seismic Design Category* shall be determined in accordance with *ASCE 7*.

**3.7 ASCE 7 Seismic Design Criteria****ASCE 7 – Chapter 11****Scope****ASCE 7 – §11.1.2**

Every structure (e.g., buildings and nonbuilding structures), and portion thereof, including nonstructural components, shall be designed and constructed to resist the effects of earthquake motions as prescribed by the seismic requirements of *ASCE 7*.

**Applicability****ASCE 7 – §11.1.3**

Structures and their nonstructural components shall be designed and constructed in accordance with the requirements of the following chapters based on the type of structure or component:

- Buildings: *ASCE 7 – Chapter 12*
- Nonbuilding Structures: *ASCE 7 – Chapter 15*
- Nonstructural Components: *ASCE 7 – Chapter 13*
- Seismically Isolated Structures: *ASCE 7 – Chapter 17*
- Structures with Damping Systems: *ASCE 7 – Chapter 18*

**Seismic Importance Factor,  $I_e$** **ASCE 7 – §11.5.1**

Each structure shall be assigned an *importance factor* ( $I_e$ ) in accordance with *ASCE 7 – Table 1.5-2* ... based on the *Risk Category* of the building (or other structure) from *IBC – Table 1604.5*.

- |  |                  |
|--|------------------|
| ➤ <i>Risk Category</i> I                         | → $I_e = 1.0$    |
| ➤ <i>Risk Category</i> II                        | → $I_e = 1.0$    |
| ➤ <i>Risk Category</i> III (high occupancy)      | → $I_e = 1.25^*$ |
| ➤ <i>Risk Category</i> IV (essential facilities) | → $I_e = 1.5^*$  |

The seismic *importance factor* ( $I_e$ ) is used in the *Seismic Response Coefficient* ( $C_D$ ) equations with the intent to raise the yield level for important structures (e.g., hospitals, fire stations, emergency operation centers, hazardous facilities, etc.).

Use of an *importance factor* greater than one is intended to provide for a lower inelastic demand on a structure which should result in lower levels of structural and nonstructural damage.

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**Liyng Dong**



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