

## **The Seismic Provisions of SEI/ASCE 7-05**

May 16, 2007

1:00pm – 5:00pm

Long Beach, California

**Presenters:** James R. Harris, S.E.  
Principal, JR Harris & Co.  
Denver, Colorado and  
Immediate Past Chair of the ASCE 7 Main Committee

Robert Bachman, S.E.  
Consulting Structural Engineer  
Laguna Niguel, California and  
Immediate Past Chair of the ASCE 7 Seismic Task Committee

### **Presentation Overview:**

This presentation will discuss the seismic provisions of SEI/ASCE Standard 7-05 *Minimum Design Loads for Building and Other Structures* (ASCE 7-05). The seismic provisions of ASCE 7-05 including Supplement 1 have been adopted as the seismic requirements of the 2006 International Building Code (2006 IBC) and the 2006 NFPA 5000 Building Construction and Safety Code (2006 NFPA 5000). The next edition of ASCE 7 is not scheduled until 2010, therefore it is this edition of ASCE 7 will serve as the seismic requirements for buildings and other structures for perhaps the next decade.

The presentation will include a history of the development of ASCE 7-05 that included a significant reformatting effort to make the document more user friendly for practicing engineers and the basis of the changes that were made from ASCE 7-02. The overall organization found in ASCE 7-05 will also be discussed along with cross references back to ASCE 7-02. It should be noted the seismic requirements in ASCE 7-02 were all located in Section 9 and an appendix to Section 9. In ASCE 7-05 the seismic requirements are now found in Chapters 11 through 23 and two appendices to Chapter 11.

The presentation will also include a review of requirements for establishing design ground motions, seismic design load loads for buildings, nonstructural components and nonbuilding structures. The seismic detailing reference standards that are consistent with ASCE 7-05 will be noted. Significant changes in the modifications to seismic design and detailing requirements between ASCE 7-05, ASCE 7-02 and the 1997 UBC will also be noted. Finally, significant exceptions taken to the seismic provisions of ASCE 7-05 by the 2006 IBC or 2006 NFPA 5000 will be identified.

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