



DESIGN



INVESTIGATE



REHABILITATE



ASCE/SEI IBC Proposals

Presented to CRSC

12 November 2015

R. Hamburger, Chair ASCE 7-16

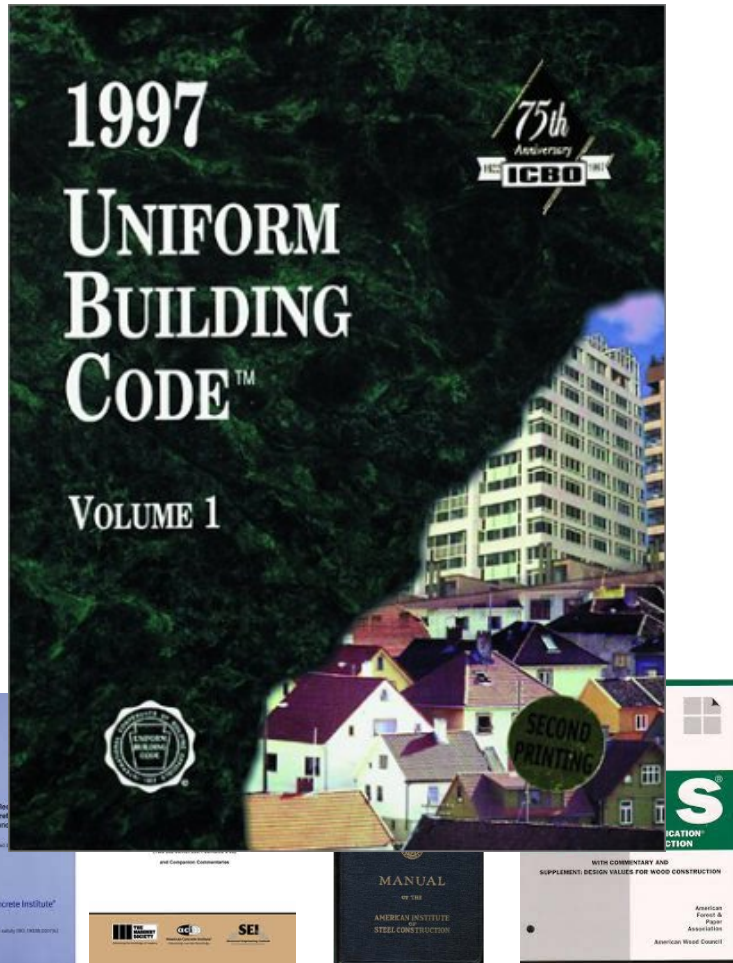
Overview

- Proposals are to remove from the IBC, all loading-related criteria which can already be found in ASCE 7
 - IBC-specific exceptions and additions will remain (though separate proposals may attempt to remove/correct these)
- Reason:
 - Avoid confusion and minor disagreements between the code and referenced standards
 - Place discussion of technical requirements into the technical standards committee, where those most knowledgeable to resolve the issues are present
 - Maps are becoming increasingly complex and as can run to hundreds of pages (e.g. tsunami)
 - Minimize the need to constantly change the code to bring into conformance with updated standards

Note that ASCE/SEI has an open process and anyone can submit proposal for change of the standard, which are addressed the same as committee proposals

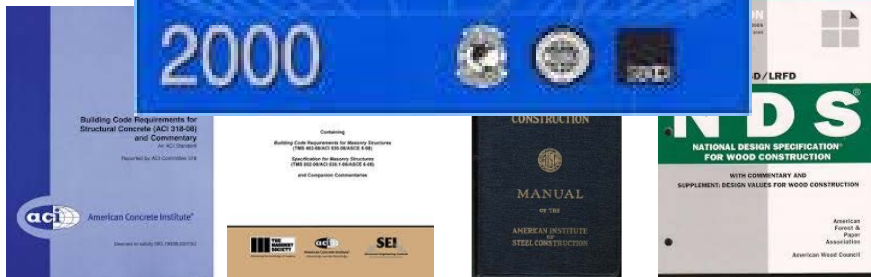
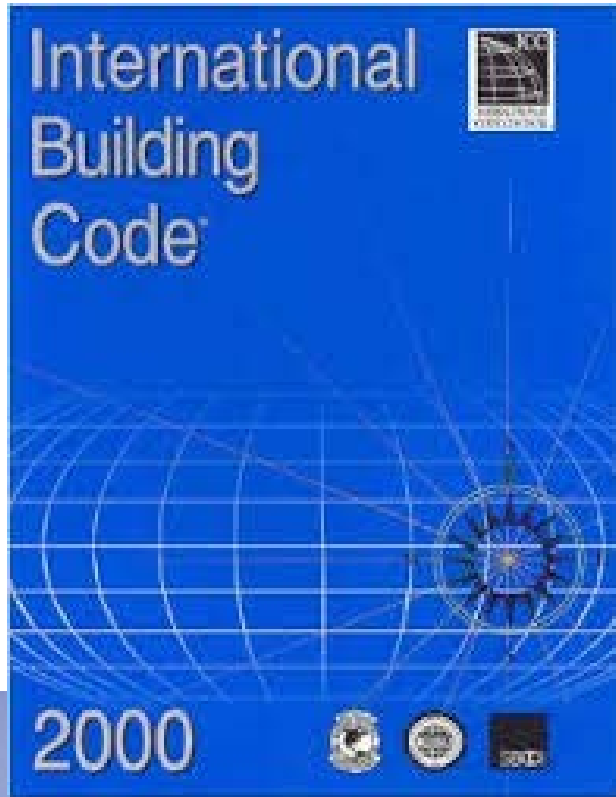
Brief History

- The UBC and other legacy codes transcribed the design industry standards (with many modifications)
- The code was the code, and the standards were largely not used
- One could (and did) conduct design using the building code without reference to the standards, except when needed for special circumstances

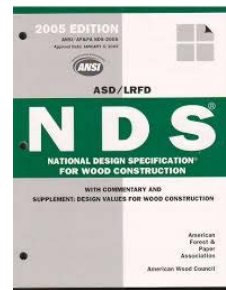
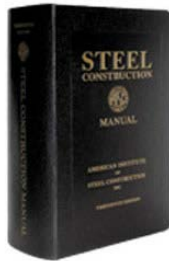
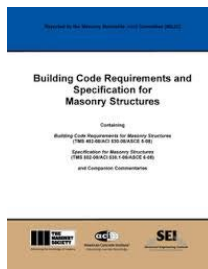


Brief History

- The first edition of the IBC maintained this practice



Brief History



- In 2006, the SDOs started to remove most technical material from the IBC and directly reference the standards
- CRSC partnered in this move and supported SEI's removal of "most" loading from the code.

Legacy Load Information Retained in 2006

- Load Combinations
- Live Load Tables
- Seismic Design Procedure
 - Through determination of S_{DS} , S_{D1} and S_{DC}
- Wind Design Procedure
 - Through determination of Design Wind Speed
 - (alternate wind load procedure – complete)
- Snow Load Procedure
 - Through determination of ground snow load

It appeared that the determination of loading could be done through reference to the building code alone, but this was not actually the case

Proposed Deletions

- Load Combinations
 - With the exception of retention of the Alternate ASD combinations for use with foundation design
- Live Load Tables
 - Leaving in specific IBC additions and excpetions
- Seismic Design Procedure
 - Including the maps
- Wind Design Procedure
 - Including the maps
- Snow Load Procedure
 - Including the maps

Straight reference to ASCE 7 will be made.

On Board with This

- AISC
- ACI
- TMS
- AFPA

Note that NCSEA has not signed on-board yet as the General Requirements Subcommittee thinks that an irrevocable agreement was made in 2006 with regard to the amount of material retained in the code

Discussion