

September 21, 2000

MEMORANDUM TO: David Terao, Chief  
Component and Containment Reliability Section  
Mechanical & Civil Engineering Branch  
Division of Engineering

FROM: Hans Ashar, Sr. Structural Engineer  
Mechanical and Civil Engineering Branch  
Division of Engineering

SUBJECT: MEETING NOTES: ANSI/AISC N690 (TASK COMMITTEE 14)  
MEETING ON NUCLEAR SAFETY-RELATED STEEL  
STRUCTURES, HELD IN CHICAGO, IL. ON SEPTEMBER 15,  
2000

Background: The first Edition of ANSI/AISC N690 (Standard), "Nuclear Facilities - Steel Safety-Related Structures for Design, Fabrication and Erection," was published in 1984. The NRC staff accepted its use for design of steel structures in advanced reactor applications ABWR, CE 80+, and AP 600 with certain modifications and additional provisions proposed by the NRC staff. The second edition of the Standard, published in 1994, incorporated a few of these provisions. Also, there were a number of comments from the public (mainly the nuclear industry and associated consultants) on the second (1994) edition of the Standard. In order to incorporate NRC positions and make certain clarifying correction, TC 14 developed a Supplement (Supplement 1) to the 1994 Edition of the Specification. Moreover, American Institute of Steel Construction (AISC) has changed the basic methodology for design of the steel structures from the allowable stress design (ASD) method to the load resistance factor design (LRFD) method. Based on its survey, AISC determined that the future editions of the Standard should be based on the LRFD method.

In August 1997, I was appointed as the chairman of the AISC Task Committee (TC 14) having the responsibility for keeping the Standard current. I accepted the chairmanship on the condition that secretarial help will be available from the AISC staff. In this role, I set two basic goals for the TC: (1) to develop a supplement to the 1994 Edition of the Standard to incorporate the comments and to keep it current to reflect the safety significant changes in the parent Standard (AISC Building Specification-used for non-nuclear applications), and (2) to develop the next Edition of the Standard using the LRFD methodology.

The basic objective of this meeting was to discuss and finalize the drafts of the changes developed by various members (assignees) to be incorporated in Supplement 1 to the 1994 Edition of the Standard. The Committee also discussed the NRC staff position. All, but two provisions of the position were accepted by the TC without significant discussion.

The Task Committee plans to submit Supplement 1 to ANSI/AISC N690-94 for approval by the ANSI Committee on Standardization and AISC Building Specification Committee by October 2000. As Chairman of the TC, I will be discussing the Supplement during the meeting of AISC Building Specification on November 10, 2000.

The major efforts in this meeting were focused toward the compilation of Chapters related to the LRFD version of ANSI/AISC N690 for design and construction of nuclear steel structures. In August, I had provided copies of Chapter A related to loads and load combinations (unique to nuclear plant design) for a review by Drs. Thomas Cheng and B. P. Jain of EMEB. This review indicated two changes in the load combinations to make the LRFD for steel structures acceptable to NRC. In the November 15 meeting, both changes were accepted by TC 14 members. TC-14 plans to submit the N690-LRFD for the full Committee and ANSI review in 2001.

The agenda of the meeting is attached for your information. The detailed meeting notes prepared by the Task Committee 14 secretary will be available in Mid-October.

Attachment: As stated

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The agenda of the meeting is attached for your information. The detailed meeting notes prepared by the Task Committee 14 secretary will be available in Mid-October.

Attachment: As stated

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- 4. Lunch
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Assign 6. Traffic Control (MNDP, MTD from the FUSOC) by the Co-Chair (Ashar Contractor) on 1 September 2000

(Ashar Contractor) on 1 September 2000

H. Ashar Contractor (Revision of Reg. 7 of AISC, Somalia Prov.)

AGENDA  
 Meeting of  
 AISC Task Committee 14 - Nuclear Facilities Design  
 Friday, September 15, 2000  
 O'Sullivan Conference Center  
 9 A.M. - 4:30 P.M.

noon - 1:00 1:00 - 4:00 4:00 - 4:30

4:00 - 4:15

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Attachment