

Session 47

Bill McEleney

National Steel Bridge Alliance

AASHTO/NSBA Steel Bridge Collaboration

Topic Description

This presentation will provide a brief introduction and overview of standards developed by the AASHTO/NSBA Steel Bridge Collaboration. The Collaboration is a joint effort between AASHTO and the National Steel Bridge Alliance (NSBA) with representatives from state Departments of Transportation, the Federal Highway Administration, academia, and the various industries related to steel bridge design, fabrication, inspection, and erection. The Collaboration achieves quality and value in steel bridges by development and implementation of consensus standards for economic and effective design, detailing, inspection, fabrication, and erection of steel bridges.

Speaker Biography

Bill McEleney is a Regional Director for the National Steel Bridge Alliance (NSBA), a division of AISC. He is located in Rhode Island and is responsible for the Eastern United States, representing the steel bridge fabricating industry on matters of steel bridge fabrication and construction.

Prior to joining NSBA at its inception 8 years ago, he spent 10 years as a Regional Engineer for the American Institute of Steel Construction, performing similar duties.

He is a graduate of the University of Rhode Island and holds a Bachelor of Science Degree in Civil Engineering.



WHY

Ensure (or improve) quality and value in steel bridges by standardization of design & details, fabrication, and erection and by the sharing of resources

Provides mutual benefit to owners and industry:

- *Owners benefit from improved quality, faster delivery and lower costs*
- *Industry benefits from increased competitiveness*

AASHTO/NSBA Steel Bridge Collaboration

WHO

Design and construction professionals representing the full spectrum of parties involved in the delivery of steel bridges
- all volunteers-

- DOTs
- Consultants
- Fabricators
- Suppliers

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HOW

- from an 'unbiased' point of view
- review and consider existing requirements and practices - "best of" & otherwise
- discuss / determine most cost effective methods to achieve safe, serviceable bridge structures

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TASK GROUPS

- Drawings
- Fabrication
- Regional Groups
- QC/QA
- Repairs
- Transportation
- Research & Technology
- Coatings
- Bearings
- Erection
- Design for Economy

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PROCESS

- product is 'created' by Collaboration
- approved by consensus ballot(s)
 - published as Collaboration document
 - available for DOT's/others to incorporate
- forwarded to AASHTO T-14 (Steel Design) for approval
- forwarded to full AASHTO for approval
- eventually published as AASHTO document

AASHTO/NSBA Steel Bridge Collaboration

PARTICIPATION

- semi-annual national meetings (fall 1997)
 - average 75 people
- next meeting
 - St. Louis – September 26 & 27, 2006
- Collaboration website
 - e-mail listserver 'thelist'

AASHTO/NSBA Steel Bridge Collaboration

PRODUCT - complete

- available at AASHTO bookstore
 - G1.1, Shop Detail Drawing Review/Approval Guidelines
 - G1.2, Design Drawing Presentation Guidelines
 - G1.3, Shop Detail Drawing Presentation Guidelines
 - S2.1, Steel Bridge Fabrication Guide Specification
 - S4.1, Steel Bridge Fabrication QC/QA Guide Specification

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PRODUCT - complete

- available at AASHTO bookstore
 - S8.1, Guide Specification for Inorganic Zinc-Rich Primer-Based Coating Systems
 - S9.1, Steel Bridge Bearing Design and Detailing Guidelines
 - G12.1, Guidelines for Design for Constructability

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PRODUCT - working

- approved by AASHTO Bridge Committee
 - G1.4 Guidelines for Design Details
 - G4.2, Recommendations for the Qualification of Structural Bolting Inspectors
 - G4.4, Sample Owners Quality Assurance Manual
 - S8.1, Guide for Application of Coating Systems with Zinc-Rich Primers to Steel Bridges
- balloting within Collaboration
 - S10.1, Steel Bridge Erection

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ADOPTION

- DOT / others
- Consultants
- Fabricators
- Suppliers

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www.steelbridges.org

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