

NCHRP Products for AASHTO Committees (Updated 4/28/2011)

NCHRP projects often produce results of direct and immediate interest to committees of the American Association of State Highway and Transportation Officials (AASHTO). NCHRP results can have a significant impact on practice or become an AASHTO publication or standard. The NCHRP is developing or has developed over 700 products for use by the committees below. The status column is highlighted in instances where the NCHRP product has been used by AASHTO. This document can be accessed in Adobe PDF on the Cooperative Research Program's website, located at <http://www.trb.org/nchrp>.

- Executive Committee
 - ◊ Special Committee on Intermodal Transportation and Economic Expansion
 - ◊ Special Committee on Joint Development
 - ◊ Special Committee on Transportation Security
- Standing Committee on Finance and Administration
 - ◊ Subcommittee on Civil Rights
 - ◊ Subcommittee on Financial Management
 - ◊ Subcommittee on Information Systems
 - ◊ Subcommittee on Internal and External Audit
 - ◊ Subcommittee on Legal Affairs
 - ◊ Subcommittee on Personnel and Human Resources
 - ◊ Subcommittee on Public Affairs
 - ◊ Special Committee on TRAC
- Standing Committee on Aviation
- Standing Committee on the Environment
- Standing Committee on Highways
 - ◊ Subcommittee on Bridges and Structures
 - ◊ Subcommittee on Construction
 - ◊ Subcommittee on Design
 - Technical Committee on Environmental Design
 - Technical Committee on Geometric Design
 - Technical Committee on Hydrology and Hydraulics
 - Technical Committee on Metrication
 - Joint Technical Committee on Non-Motorized Transportation
 - Joint Technical Committee on Pavements
- Technical Committee on Retroreflectivity
- Technical Committee on Roadside Safety
- Technical Committee on Roadway Lighting
- ◊ Subcommittee on Highway Transport
- ◊ Subcommittee on Maintenance
- ◊ Subcommittee on Materials
- ◊ Subcommittee on Right-of-Way and Utilities
- ◊ Subcommittee on Systems Operation and Management
- ◊ Subcommittee on Traffic Engineering
- ◊ National Transportation Product Evaluation Program Oversight Committee
- ◊ Special Committee on International Activity Coordination
- ◊ Special Committee on U.S. Route Numbering
- ◊ Special Committee on Wireless Technology
- ◊ Technology Implementation Group
- Standing Committee on Highway Traffic Safety
- Standing Committee on Performance Management
- Standing Committee on Planning
 - ◊ Subcommittee on Asset Management
- Standing Committee on Public Transportation
- Standing Committee on Rail Transportation
- Standing Committee on Research
 - ◊ Research Advisory Committee
- Standing Committee on Water Transportation
- Task Force on SHRP Implementation (former)

| Project | Product | Status |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Special Committee on Intermodal Transportation and Economic Expansion</u> | | |
| 2-17(4) | METHODOLOGY for determining the impact of public agency decisions on shippers' costs. | Completed in May 1995. Report available on loan basis. Contact: Charles W. Niessner, 202/334-1431 |
| 2-21 | METHODOLOGY to estimate economic benefits associated with congestion-reduction strategies. | Completed in March 2001. Published as NCHRP Report 463. CD-ROM which documents the sketch planning tool is available from NCHRP upon request. Contact: Dianne S. Schwager, 202/334-2969 |
| 2-22 | GUIDE to assist state DOTs and others to communicate more effectively transportation's importance to the economy. | Completed in March 1999. Published as NCHRP Report 436. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-31A | MANUAL and ANALYTICAL METHODOLOGY for performing multimodal corridor capacity analysis. | Completed in March 1996. Published as NCHRP Report 399. Contact: Lori L. Sundstrom, 202/334-3034 |
| 20-7(59) | SUMMARY of linkage between transportation investment and economic expansion and CASE STUDIES of state experiences. | Completed in June 1995. Available on loan basis. Contact: Lori L. Sundstrom, 202/334-3034 |
| 20-44C | Reference GUIDE for state DOTs on the policy implications of transportation and its importance to the economy. | Completed in November 1996. Contact: Lori L. Sundstrom, 202/334-3034 |

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|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Special Committee on Transportation Security and Emergency Management</u> | | |
| 20-7(151)A | A GUIDE to updating highway emergency response plans for terrorist incidents. | Available on the AASHTO website. Used in workshops in 2002-2003. Superseded by 20-59(23) in 2010. Contact: S. A. Parker, 202/334-2554 |
| 20-7(151)B | A GUIDE to highway vulnerability assessment for critical asset identification and protection. | Available on the AASHTO website. Used in workshops in 2002-2003. Superseded by 20-59(17) in 2009. Contact: S. A. Parker, 202/334-2554 |
| 20-59(1) | Transportation security research highway and bridge PRIORITIES of state transportation agencies based on a work plan from a workshop and conference of states, federal agencies, and others. | Available on the AASHTO website. Used by AASHTO Task Force. Contact: S. A. Parker, 202/334-2554 |
| 20-59(2) | Self-study COURSE on Terrorism-Related Risk Management of Infrastructure for use by state DOTs. | Completed in June 2004. Published as NCHRP Report 525, Vol. 4. Contact: S. A. Parker, 202/334-2554 |
| 20-59(3) | RECOMMENDATIONS for bridge and tunnel security. | Available on the AASHTO website. Published by FHWA in September 2003; also available on the FHWA website. Contact: S. A. Parker, 202/334-2554 |
| 20-59(4) | Preparation of a reauthorization WHITE PAPER on security. | Completed in May 2003. Delivered to AASHTO. Contact: S. A. Parker, 202/334-2554 |
| 20-59(5) | National ASSESSMENT of infrastructure and operating costs needed to ensure security of the nation's roadways, tunnels, and bridges. | Available on the AASHTO website. Delivered to AASHTO; used to support the 2002 AASHTO Bottom Line Report. Contact: S. A. Parker, 202/334-2554 |
| 20-59(6) | A FIELD PERSONNEL MANUAL for responding to security threats. | Completed in December 2003. Published as NCHRP Report 525, Vol. 1. Contact: S. A. Parker, 202/334-2554 |
| 20-59(6) A&B | CD-based interactive security awareness training PROGRAM for use by state DOTs for their field personnel. | Completed in December 2005. Published as NCHRP Report 525, Vol. 7. Contact: S. A. Parker, 202/334-2554 |
| 20-59(7) | WHITE PAPER for AASHTO on the advisability of (not) establishing a stand-alone Information Sharing and Analysis Center (ISAC). | Completion October 2005. Contact: S. A. Parker, 202/334-2554 |
| 20-59(9) | Disruption impact estimating TOOL on loss of key transportation choke points for use by state DOTs and other entities with regional transportation concerns. | Completed in November 2005. Published as NCHRP Report 525, Vol. 11. Contact: S. A. Parker, 202/334-2554 |
| 20-59(10) | REPORT on how to organize and share security threat information across transportation organizations. | Completed in January 2005. Published as NCHRP Report 525, Vol. 2. Contact: S. A. Parker, 202/334-2554 |
| 20-59(11) | GUIDE for CEOs of state DOTs and program managers on the development of a formal program for the improved management of traffic incidents, natural disasters, security events, and other emergencies on the highway system. | Completed in February 2005. Published as NCHRP Report 525, Vol. 6. Contact: S. A. Parker, 202/334-2554 |
| 20-59(12) | SLIDESHOW report on the joint biennial AASHTO/TRB 2003 Security Survey of State Transportation Agencies. | Completed in August 2004. Contact: S. A. Parker, 202/334-2554 |
| 20-59(16) | BROCHURE on the role of state DOTs in Homeland Security. | Completed in February 2005. Published by AASHTO in January 2005 and available on the AASHTO website. Contact: S. A. Parker, 202/334-2554 |
| 20-59(16)A | REPORT on security funding resources for state transportation agencies. | Completed in September 2004. Available on the AASHTO website. Contact: S. A. Parker, 202/334-2554 |
| 20-59(17) | GUIDE to risk management of multimodal transportation infrastructure. | Completion April 2008. Contact: S. A. Parker, 202/334-2554 |

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|------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 20-59(18) [TCRP Proj. J-10C] | GUIDELINES for transportation emergency training drills and exercises. | Completed in October 2005. Published as NCHRP Report 525/TCRP Report 86, Vol. 9. Contact: S. A. Parker, 202/334-2554 |
| 20-59(19) | GUIDE to transportation's role in public health emergencies. | Completed in October 2005. Published as NCHRP Report 525, Vol. 10. Contact: S. A. Parker, 202/334-2554 |
| 20-59(21) [TCRP Proj. J-10F] | GUIDE to continuity of operations plans for transportation agencies. | Completed in June 2005. Published as NCHRP Report 525/TCRP Report 86, Vol. 8. Contact: S. A. Parker, 202/334-2554 |
| 20-67 [TCRP Proj. J-10G] | GUIDE to making transportation tunnels safe and secure. | Completed June 2006. Published as NCHRP Report 525/TCRP Report 86, Vol. 12. Contact: S. A. Parker, 202/334-2554 |

Standing Committee on Finance and Administration

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| 8-65 | GUIDEBOOK that provides practical strategies for communication, cooperation, and coordination between transportation agencies and tribal communities in order to facilitate successful transportation projects. | In progress. Report expected Fall 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-24(20) | A GUIDEBOOK for CEOs of state DOTs on the use of performance measures in management. | Completed in April 2003. Distributed by AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-24(31) | GUIDELINES for effective program delivery in a constrained fiscal environment. | Completed in Spring 2008. Sent to AASHTO for distribution. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-76 | GUIDELINES for Disparity/Availability Studies for State DOT Disadvantaged Business Enterprise (DBE) Programs | In progress. Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |

Finance and Administration Subcommittee on Civil Rights

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| 20-76 | GUIDELINES for Disparity/Availability Studies for State DOT Disadvantaged Business Enterprise (DBE) Programs | In progress. Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |
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Finance and Administration Subcommittee on Financial Management

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| 19-7 | GUIDE to integrate inventory, condition assessments and funding decisions with GASB 34 reporting requirements and to assess the operational and financial impacts of GASB 34 reporting. | Completion April 2007. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-7(86) | EVALUATION of alternatives for states to access unobligated balances in the Highway Trust Fund. | Completed in December 1996. Report distributed by AASHTO in 1998. Contact: Lori L. Sundstrom, 202/334-3034 |
| 20-24(13) | National CLEARINGHOUSE for innovative financing. | Completed in September 2002. Operational online at http://www.innovativefinance.org . Contact: Christopher J. Hedges, 202/334-1472 |

Finance and Administration Subcommittee on Information Systems

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| 20-7(131)C | RECOMMENDATIONS for AASHTO Web Portal. | Completed in November 2001. Report used by AASHTO to make decisions on its Portal. Contact: B. Ray Derr, 202/334-3231 |
| 20-24(19) | SUMMARY of e-business applications used by state DOTs. | Completed in September 2004. Report sent to AASHTO. Contact: B. Ray Derr, 202/334-3231 |

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|----------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 20-56 | BUSINESS PLAN for AASHTO's website and PILOT APPLICATION for web service. | Completed in November 2003. Used by AASHTO staff. Contact: B. Ray Derr, 202/334-3231 |
| 20-64 | XML SCHEMAS for the exchange of transportation data. | Completed in March 2006. Published as NCHRP Report 576. Contact: Christopher J. Hedges, 202/334-1472 |

Finance and Administration Subcommittee on Legal Affairs

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| 11-7 | FEASIBILITY STUDY of a data-management system for highway tort claims made against transportation agencies. | Completed in April 2003. Final report available as NCHRP Web-Only Document 57. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-6 | SELECTED STUDIES IN TRANSPORTATION LAW (SSTL) covering issues on torts, contracts, the environment, and eminent domain. | Continuing project. Studies published in Legal Research Digest and Selected Studies in Transportation Law (SSTL) series. Vol. 1: Construction Contract Law, Vol. 3: Environmental Law and Transportation, Vol. 4: Tort Liability, and Vol. 8: Government Relations available as CRP-CD-20, Vol. 1, 3, 4, & 8 respectively. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-76 | GUIDELINES for Disparity/Availability Studies for State DOT Disadvantaged Business Enterprise (DBE) Programs | In progress. Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |

Finance and Administration Subcommittee on Personnel and Human Resources

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| 20-7(163) | Innovative PRACTICES for workforce development for state Departments of Transportation. | Completed in Spring 2004. Results posted on FHWA website. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-7(195) | SURVEY of DOT salary and wage statistics. | Completed March 2009. Sent to AASHTO for distribution. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-7(205) | BEST PRACTICES for workforce management and planning. | Completed June 2007. Report sent to AASHTO for distribution. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-24(42) | GUIDELINES for the selection and application of quality management systems in state departments of transportation. | Completed in Summer 2006. Submitted to AASHTO for distribution. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-76 | GUIDELINES for Disparity/Availability Studies for State DOT Disadvantaged Business Enterprise (DBE) Programs | Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |

Special Committee on TRAC

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| 20-7(90) | RECOMMENDATIONS for the next-generation TRAC PAC--an outreach program for high schools. | Completed in May 1999. Report used by Special Committee. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-52 | PRODUCT MATERIAL for the next-generation TRAC PAC. | Completed in June 2002. Adopted by AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-52(1) | Marketing, promotional, and motivational TOOLS to optimize the implementation and effectiveness of the TRAC PAC2 program. | Completed in Spring 2005. Materials provided to AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |

Standing Committee on the Environment

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| 8-33 | FRAMEWORK for analyzing the air quality and other impacts of transportation control measures. | Completed in December 1999. Published as NCHRP Report 462. Contact: B. Ray Derr, 202/334-3231 |
| 8-36 (38) | Supplemental EVALUATION in support of NCHRP Project 25-17. | Completed in January 2005. To be published with NCHRP Project 25-17 report. Contact: Lori L. Sundstrom, 202/334-3034 |

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| 8-36 (48) | GUIDANCE on improved linkage between systems planning and the NEPA process. | Completed in January 2006. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 10-76 | METHODOLOGIES for evaluating the feasibility, reasonableness, effectiveness, and longevity of acoustic and economic features of pavement strategies and barriers used for noise mitigation. | Completion late 2011. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(91) | GUIDANCE on requirements of new NAAQS for ozone and particulate matter. | Completed in December 2000. Final briefing report on new EPA regulatory activities was distributed to SCOE. Contact: Lori L. Sundstrom, 202/334-3034 |
| 20-7(119) | SUPPORT for environmental "best practices" competition. | Completed and announced at 1999 AASHTO Annual Meeting. Contact: Lori L. Sundstrom, 202/334-3034 |
| 20-7(129) | ASSESSMENT of project delays related to environmental permitting requirements. | Completed in October 2000. Distributed by AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-7(144) | GUIDANCE on environmental streamlining through programmatic agreements and delegation of authority. | Completed in April 2002. Distributed by AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| 25-3 | GUIDE for wetland replacement areas. | Completed in September 1997. Published as NCHRP Report 379. Contact: Crawford F. Jencks, 202/334-2379 |
| 25-6 | Air quality SOFTWARE model, HYROAD (HYbrid ROADway Model), simulating the effects of traffic, emissions and dispersion to determine hourly concentrations of CO or other gas-phase pollutants, particulate matter (PM) and air toxics from vehicle emissions. | Completed in February 2003. Referred by SCOE to the US EPA as an alternative model; see http://www.epa.gov/scram001/ . Contact: Crawford F. Jencks, 202/334-2379 |
| 25-9 | PROTOCOL and SOFTWARE for assessing the environmental impact of highway construction and repair materials on surface water and groundwater. | Completed in October 2000. Published as NCHRP Reports 443 and 448. Contact: Edward T. Harrigan, 202/334-3232 |
| 25-10 | METHODOLOGY for assessing the indirect environmental impacts of projects. | Completed in May 1996. Published as NCHRP Report 403. Contact: Lori L. Sundstrom, 202/334-3034 |
| 25-14 | ANALYTIC TOOLS to evaluate future programs on heavy vehicle exhaust emissions. | Completed in September 2002. Contact: Lori L. Sundstrom, 202/334-3034 |
| 25-15 | Short-term monitoring PROCEDURE for air quality modeling. | Completed in June 2002. Published as NCHRP Report 479. Contact: Lori L. Sundstrom, 202/334-3034 |
| 25-16 | GUIDANCE for selecting compensatory wetland mitigation options. | Completed in July 2002. Published as NCHRP Report 482. Contact: Christopher J. Hedges, 202/334-1472 |
| 25-17 | ASSESSMENT of the expected effects of the new NAAQS for ozone and PM 2.5 on the project development process. | Completed in February 2005. Publication decision pending. Contact: Lori L. Sundstrom, 202/334-3034 |
| 25-18 | APPORTIONMENT of the mobile sources of emissions and development of appropriate PM 2.5 and PM 10 EMISSION FACTORS. | Completed August 2006. Contact: Lori L. Sundstrom, 202/334-3034 |
| 25-19 | HANDBOOK for assessing the social and economic effects of transportation projects. | Completed in November 2000. Published as NCHRP Report 456. Contact: Christopher J. Hedges, 202/334-1472 |
| 25-20 | SYNTHESIS and STRATEGIC RESEARCH PLAN for management of transportation runoff (with CD-ROM). | Completed in April 2001. Agency report available as NCHRP Web-Only Document 37. Contact: Crawford F. Jencks, 202/334-2379 |
| 25-20(1) | BEST MANAGEMENT PRACTICES for controlling highway runoff. | Completed Summer 2006. Published as NCHRP Report 565. Contact: Christopher J. Hedges, 202/334-1472 |
| 25-20(2) | Identification of RESEARCH NEEDS related to highway runoff management. | Completed in December 2003. Published as NCHRP Report 521. Contact: Christopher J. Hedges, 202/334-1472 |

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| 25-22(2) | DIGEST of technologies to improve consideration of environmental concerns in transportation decisions. | Completed in Spring 2006. Published as NCHRP Research Results Digest 304. Contact: Andrew C. Lemer, 202/334-3972 |
| 25-24 | DIGEST of outcome of the environmental streamlining process pilot projects. | Completed in Fall 2005. Results summarized in NCHRP Research Results Digest 300 and agency report available as NCHRP Web-Only Document 79. Contact: Andrew C. Lemer, 202/334-3972 |
| 25-25 (01) | GUIDANCE on documentation needed for Environmental Assessments and Environmental Impact Statements. | Completed in June 2004. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (02) | ASSESSMENT of "smart growth" laws and land-use development and transportation decisions. | Completed in June 2004. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (03) | METHODOLOGY for assessment and mitigation of land development impacts. | Completed in April 2004. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (04) | BEST PRACTICES for integrating environmental stewardship into roadside operations and maintenance activities. | Completed in October 2004. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (05) | ANALYSIS and CASE STUDIES illustrating potential sources of delay associated with the NEPA process. | Completed in December 2003. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (07) | An EVALUATION and VALIDATION of EPA's MOBILE6.1/6.2 model in predicting highway mobile source emissions. | Completed in December 2003. Report submitted to AASHTO. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (08) | Performance data collection PROTOCOLS for stream restoration. | Completion Spring 2006. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (10) | Alternative mitigation STRATEGIES to protect the natural environment. | Completed in October 2005. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (11) | ANALYSIS of secondary/indirect and cumulative effects of transportation projects. | Completed in January 2006. Report submitted to AASHTO. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (12) | PROCESS for achieving design-build environmental compliance. | Completed in January 2005. Report submitted to AASHTO. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (13) | BEST PRACTICES for development of FHWA approved programmatic agreements. | Completed in June 2005. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (14) | METHODOLOGIES to study and monitor the effects of dam removal projects. | Completed in September 2005. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (15) | Historic CONTEXT for the most common 50 historic bridge types in the United States. | Completed in October 2005. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (16) | STRATEGIES to address NPDES Phase II requirements. | Completed March 2007. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (17) | TECHNIQUES for greenhouse gas analysis for transportation projects. | Completed in June 2006. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (18) | APPROACHES to communicating air toxics issues and transportation project-related analyses in NEPA documents. | Completed in March 2007. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (19) | Decision making PROCESS for historic bridge rehabilitation / replacement. | Completed in September 2006. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (20) | GUIDELINES for state DOTs' role in transit oriented development (TOD). | Completed March 2006. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (21) | Remote sensing TECHNOLOGIES for archaeological investigations. | Completed June 2006. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |

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| 25-25 (22) | Land use forecasting METHODS for indirect impacts analysis. | Completed in December 2007. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (23) | Environmental PERFORMANCE MEASURES related to transportation project planning, design, construction, maintenance and operations. | Completion November 2006. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (25) | GUIDELINES for Modification and Amendment of Environmental Permits on Design-Build Projects. | Completed September 2007. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (28) | GUIDELINES for Reevaluations of NEPA documents. | Completed May 2008. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (29) | BEST PRACTICES Library from the Environmental Stewardship Practices in Construction and Maintenance Compendium. | Completed September 2007. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (32) | Current STATE OF PRACTICE on Linking Environmental Resource and Transportation Planning. | Completion June 2008. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (33) | ELIGIBILITY GUIDELINES for National Register of Historic Places. | Completed December 2007. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (35) | METHODOLOGIES for Water Quality Analyses for NEPA Documents. | Completed February 2008. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (36) | GUIDELINES for Recurring Community Impacts. | Completion March 2008. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (37) | GUIDELINES for Effective Organizational Structures and Management Practices for Achieving Environmental Stewardship in Transportation Agencies. | Completion April 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (38) | GUIDE to Use of Tier I Environmental Impact Statements for Transportation Projects. | Completion April 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (39) | GUIDELINES for Improving Project Environmental Cost Estimates. | Completed November 2008. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (40) | GUIDELINES for New Noise Barrier Products & Noise Barrier Approval Research & Guidelines. | Completed July 2008. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (41) | GUIDELINES for Implementation of Community & Cultural Resource Commitments. | Completed July 2008. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (42) | GUIDELINES to Determine alternative calculations for fine particulate emission factors other than AP-42 applicable to calculate re-entrained dust on transportation projects. | Completed September 2008. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (43) | GUIDANCE on legal sufficiency criteria for adequate cumulative and secondary impacts analysis in EIS documents. | Completed June 2008. Submitted to AASHTO for distribution. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (44) | CLEARING HOUSE for Development and Implementation of a Transportation and Climate Change Clearinghouse. | Completion April 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (45) | SYNTHESIS of Transportation Program Responses to Greenhouse Gas (GHG) Reduction Initiatives and Energy Reduction Programs. | Completion June 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (46) | COMPENDIUM of Best Practices for Environmental Compliance and Stewardship at Transportation Maintenance Facilities. | Completion September 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (47) | COMPENDIUM of Best Practices for Incorporating Environmental Commitments into Transportation Project Construction Contract Documents. | Completion June 2009. Contact: Nanda Srinivasan, 202/334-1896 |

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| 25-25 (48) | COMPENDIUM of Environmental Fieldwork Technologies. | Completion June 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (49) | SYNTHESIS OF BEST/Effective Practices for Considering Historic Preservation in Transportation Planning and Early Project Development. | Completion June 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (50) | EXAMPLES of Finding the Carrot Instead of the Stick - Incentive-based Approaches for Environmental Compliance. | Completion April 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (51) | BEST PRACTICES of Asset Management of Environmental Mitigation Features. | Completion June 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (52) | INFORMATIONAL REQUIREMENTS for Jurisdictional Determinations to be Issued by the Army Corps of Engineers (Corps) Under the Clean Water Act (CWA). | Completion November 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (53) | GUIDELINES on Stormwater Treatment with Vegetated Buffer. | Completion July 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (54) | Evaluate Colorado's Area-wide Cumulative Effects Assessment (ACEA) METHODOLOGY as a Mechanism for Cumulative Impacts Analysis of Regional Transportation Plans. | Completion July 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (55) | Design, Organize and Implement a TRAINING PROGRAM for Mainstreaming Environmental Stewardship and Enhancement Activities into Planning and Project Development. | Completion November 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (56) | Cost and Benefit of Transportation Specific MS4 and Construction Permitting | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (57) | Workshop to Develop Integrated Policy Approaches to Slow VMT Growth and to Increase Transportation System Efficiency | Contact: Lori L. Sundstrom, 202/334-3034 |
| 25-25 (58) | Methods to Address Greenhouse Gas Emissions from Transportation Construction/Maintenance/Operations Activities | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (59) | Evaluate the Interactions between Transportation-Related Particulate Matter, Ozone, Air Toxics, Greenhouse gases, and Other Air Pollutant Control Strategies | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (60) | Increased Use of Environmentally Preferable, Non-Toxic Products to Reduce Costs, Liabilities, and Pollution at DOT Offices, Maintenance Facilities and Rest Stops | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (61) | Best Practices for Establishing and Maintaining Statewide Cultural Resource GIS Databases for Use by State DOTs | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (62) | Improving Public Outreach for Transportation Projects by Use of Citizen Coalitions | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (63) | Transportation Corridor Environmental Management Framework | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (64) | Feasibility Study of Using Solar or Wind Power for Transportation Infrastructure | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (65) | Synthesis of Greenhouse Gas Emission Inventory Methodologies for State Transportation Departments | Contact: Nanda Srinivasan, 202/334-1896 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 25-25 (66) | Best Practices and Lessons Learned on the Preservation and Rehabilitation of Historic Bridges | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (67) | Optimizing Conservation and Improving Mitigation Cost/Benefit | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (68) | Implementing Measures to Reduce Highway Impacts on Habitat Fragmentation | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (69) | Defining Community Context in Transportation Project Planning and Development Process | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (70) | Assessment of Quantitative Mobile Source Air Toxics in Environmental Documents | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (71) | Templates for Project-Level Analyses Using MOVES and AERMOD | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (72) | Current Practices to Address Construction Vibration and Potential Effects to Historic Buildings Adjacent to Transportation Projects | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (73) | Improved Environmental Performance of Highway Maintenance – a Key to Transportation Sustainability | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (74) | Meeting the New EPA Effluent Limitations Guideline for Construction Site Discharge Turbidity: Effectiveness of Different Turbidity Control Systems and Monitoring Methods | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (75) | Transferring Ownership, Management, and Maintenance of Mitigation and Conservation Sites | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (76) | Synthesis of Climate Change and Transportation Research Efforts at State DOTs, State Universities, and the Federal Level | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-25 (77) | Strategic Options of Inventorying and Updating Environmental Guidance and Links | Contact: Nanda Srinivasan, 202/334-1896 |
| 25-27 | GUIDELINES for the evaluation of wildlife crossings. | Published as NCHRP Report 615. Contact: Christopher J. Hedges, 202/334-1472 |
| 25-28 | METHODS to predict and mitigate hydroacoustic impacts on fish from pile installation. | Completion Fall 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 25-30 | A GUIDE for selecting and using temporary bridging for traffic detours or construction access, in order to avoid or minimize the environmental impacts of roadway construction over or adjacent to rivers, wetlands, and other waters of the United States. | Research completed. Summarized in NCHRP Research Results Digest 330. Contact: Christopher J. Hedges, 202/334-1472 |
| 25-31 | GUIDELINES for Evaluating and Selecting Modifications to Existing Roadway Drainage Infrastructure to Improve Water Quality in Ultra-Urban Areas. | In progress. Completion Summer 2010. Contact: Christopher J. Hedges, 202/334-1472 |

Standing Committee on Highways

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| 17-9(2) | GUIDELINES for incorporating safety improvements in 3R projects. | Completed in March 2001. Published as NCHRP Research Results Digest 255. Contact: Charles W. Niessner, 202/334-1431 |
| 20-7(54) | AASHTO GUIDE to metric conversion. | Adopted by AASHTO in 1994. Contact: Edward T. Harrigan, 202/334-3232 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20-7(87) | RECOMMENDATIONS on the need for research on portland cement concrete. | Requested by committee in November 1996; submitted in April 1997. Recommendations endorsed by AASHTO Board of Directors. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(103) | GUIDELINES for AASHTO committees and staff in scoping, specifying, estimating, developing, managing, and maintaining committee websites. | Completed in September 1999. Used by AASHTO to plan their new website. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(135) | Geometric design GUIDE for transit facilities on highways and streets--Phase I. | Completed in July 2002. TCRP will produce Geometric Design Guide for Transit Facilities on Highways and Streets. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-7(153) | GLOSSARY of transportation terminology. | Completed in April 2004. Provided to AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-7(179) | Operating PROCEDURES for the Standing Committee on Highways. | Completed in April 2005. Provided to SCOH for adoption consideration. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-7(194) | Standard DEFINITIONS for the titles of AASHTO engineering publications. | Completed March 2006. Submitted to AASHTO for distribution. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-40 | AASHTO METRIC CLEARINGHOUSE and METRICATION of AASHTO Specifications, Manuals, and Guidelines. | Completed in May 1999. Internet-based metric clearinghouse transferred to AASHTO operation in January 1998. Final versions of 15 documents hard converted from English to S.I. units and delivered to AASHTO for publication. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-68 | A BUSINESS PLAN for a domestic scan program that will enable information sharing and technology exchanges among the state departments of transportation. SCAN REPORTS on specific technologies are available on the NCHRP web site. | Completed in July 2005. Results of a pilot project completed in December 2007 became the basis for establishing a multi-year domestic scan program under NCHRP 20-68A. Contact: Andrew C. Lemer, 202/334-3972 |

Highway Subcommittee on Bridges and Structures

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| 4-26 | Recommended LRFD SPECIFICATION and COMMENTARY for thermoplastic drainage pipe. | Completed in 2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 4-27 | STRATEGIC PLAN for the application of advanced composites to the highway infrastructure. | Completed in January 2003. Published as NCHRP Report 503. Contact: Waseem Dekelbab, 202/334-1409 |
| 4-32 | SPECIFICATIONS and TEST METHODS for recycled high-density polyethylene used in the manufacture of corrugated drainage pipe. | Completed in 2008. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-20A | Bearing SELECTION GUIDE and recommended SPECIFICATIONS for design and construction of high-load, multi-rotational bridge bearings. | Adopted by SCOBs in May 1996. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-35 | Fatigue SPECIFICATIONS for welded and mechanical splices in reinforcing steel. | Adopted by SCOBs in May 1996. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-38 | Fatigue-related design CRITERIA and SPECIFICATIONS for cantilevered signal, sign, and light supports. | Completed in 1998. Published as NCHRP Report 412. Material added to proposed specification developed under NCHRP Project 17-10. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-38(2) | ENHANCEMENTS to the AASHTO fatigue design specifications for cantilevered signal, signs, and light supports. | Completed in January 2001. Published as NCHRP Report 469. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-43 | Inspection, evaluation, and maintenance MANUAL for movable bridges. | Adopted by AASHTO in 1997. Contact: Waseem Dekelbab, 202/334-1409 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10-46 | Recommended PRACTICES for corrosion evaluation of new and existing steel pile structures in nonmarine applications. | Completed in May 1997. Published as AASHTO Provisional Standard PP36-97. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-51 | Recommended performance-related SPECIFICATIONS for elastomeric bridge bearings. | Completed in June 2000. Published as NCHRP Report 449. Under consideration by SCOBS. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-52 | Performance TESTS of modular bridge deck joints. | Completed in August 2001. Published as NCHRP Report 467. Under consideration by SCOBS and SCOMS. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-57 | MANUAL for condition evaluation and strength assessment of suspension bridge parallel wire-wire cables. | Completed in April 2004. Published as NCHRP Report 534 and CRP-CD-54. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-59B | Recommended construction SPECIFICATIONS and a construction process control MANUAL for bonded FRP repair and retrofit of concrete structures. | Phase I completed in June 2003. Published as NCHRP Report 514. Phase II completed in September 2007. Published as NCHRP Report 609. Contact: Amir N. Hanna, 202/334-1432 |
| 10-62 | Recommended performance-based test PROCEDURE and a minimum specification requirement for strand acceptance based on bond behavior. | Completed in 2008. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-62 | Recommended quality control and assurance METHOD for assessing the level of deleterious residues and related test specification requirements and thresholds for pre-stressing strand acceptance. | Completed in 2008. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-63 | Recommended GUIDELINES, including limits on initial damage and critical process parameters, to minimize the potential for fracture and fatigue problems in heat-straightened steel girders. | Completed in 2008. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-64 | Recommended field PROCEDURES, evaluation GUIDELINES, and reporting STANDARDS for periodic inspection of in-service FRP bridge decks. | Completed in December 2005. Published as NCHRP Report 564. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-70 | Establish the fatigue stress category of existing, retrofitted, and new cost-effective connection details for high-level lighting and for cantilever structures. | Completion March 2010. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-71 | Develop GUIDANCE for the design and construction of durable cast-in-place reinforced concrete connections for precast deck systems that emulate monolithic construction. | Completion May 2010. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-72 | PROCEDURES for testing bridge decks. | Completion mid 2011. Contact: Amir N. Hanna, 202/334-1432 |
| 10-73 | GUIDE SPECIFICATION for the design of externally bonded FRP systems for repair and strengthening of concrete bridge elements. | Completed December 2009. Published as NCHRP Report 678 and distributed to SCOBS. Contact: Amir N. Hanna, 202/334-1432 |
| 10-74 | Loading and analysis criteria for use in the fatigue design of high-mast lighting poles and a design method and SPECIFICATIONS for high-mast lighting poles. | Completion March 2011. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-28(2)C | Conversion of BRIDGIT bridge management SOFTWARE to Windows. | Release 3.0 distributed to SCOBS in July 1998. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-33 | LRFD bridge design SPECIFICATIONS. | Adopted by AASHTO in 1993. Contact: Waseem Dekelbab, 202/334-1409 |

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| Project | Product | Status |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12-36(2) | SPECIFICATIONS for considering redundancy in highway bridge design. | Completed in May 1997. Published as NCHRP Report 406. Potential guide specification. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-38 | Revised SPECIFICATIONS for design of horizontally curved steel highway bridges. | Specifications adopted as an AASHTO standard in May 1999. Published as NCHRP Report 424. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-39 | SPECIFICATIONS for debris forces for highway bridge design. | Completed in April 2000. Published as NCHRP Report 445. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-40 | Performance-related SPECIFICATIONS and associated acceptance program for fatigue-related design of modular bridge expansion joints. | Completed in April 1997. Published as NCHRP Report 402. Material to be used in general procedures being developed in NCHRP Project 10-52. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-43 | PROCEDURE and SOFTWARE for estimating bridge life cycle costs. | Completed in March 2002. Published as NCHRP Report 483. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-44 | Recommended SPECIFICATIONS for the design and construction of movable highway bridges. | Completed in May 1999. Adopted by AASHTO in May 1999. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-45 | Recommended SPECIFICATIONS for long span culverts. | Completed in November 2001. Published as NCHRP Report 473. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-46 | Recommended MANUAL for inspection, evaluation, and load rating of bridges consistent with LRFD philosophy. | Completed in September 2000. Published as NCHRP Report 454. Adopted by AASHTO in 2005. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-47 | METHODOLOGY for considering redundancy in highway bridge substructures. | Completed in November 2000. Published as NCHRP Report 458. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-48 | Design PROCEDURE for considering combinations of extreme events. | Completed in November 2002. Published as NCHRP Report 489. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-49 | Seismic design SPECIFICATION. | Completed in November 2001. Published as NCHRP Report 472. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-50 | PROCEDURE for validating bridge design and rating software. | Completed in June 2002. Published as NCHRP Report 485. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-51 | PROCEDURE for estimating bridge costs resulting from changes in truck size and weight legislation. | Completed in December 2002. Published as NCHRP Report 495. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-52 | LRFD SPECIFICATIONS for horizontally curved girder bridges. | Completion June 2005. Publication decision pending. Recommended specification adopted by AASHTO Contact: Waseem Dekelbab, 202/334-1409 |
| 12-53 | Design SPECIFICATIONS and DETAILS for prestressed concrete beam continuity. | Completed in November 2003. Published as NCHRP Report 519. Recommended specifications incorporated in AASHTO LRFD Bridge Design Specifications. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-54 | Design SPECIFICATIONS and DETAILS for steel bridge integral connections with substructures. | Completed in January 2004. Published as NCHRP Report 527. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-55 | Recommended CHANGES to the geotechnical provisions of the AASHTO LRFD Bridge Design Specifications. | Completed in April 2004. Contractor's draft report available upon request. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-56 | Recommended REVISIONS to the AASHTO LRFD Bridge Design Specifications to extend the applicability of shear design provisions for reinforced and prestressed concrete structures to concrete compressive strengths greater than 10 ksi. | Completed in August 2006. Published as NCHRP Report 579. Recommended changes incorporated in AASHTO LRFD Bridge Design Specifications. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-57 | Recommended LRFD design PROCEDURES, standard DETAILS, and design EXAMPLES for achieving longer spans using precast, prestressed concrete bridge girders. | Completed in October 2003. Published as NCHRP Report 517. Recommended changes to AASHTO specifications adopted in June 2004. Contact: Waseem Dekelbab, 202/334-1409 |

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| Project | Product | Status |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12-58 | Recommended REVISIONS to the AASHTO LRFD Bridge Design Specifications for the effective slab width of composite steel bridge members. | Completed in December 2004. Published as NCHRP Report 543 and CRP-CD-56. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-59 | Rational design and construction GUIDELINES for geosynthetic reinforced soil bridge abutments and approaches with flexible facing elements. | Completed in December 2004. Published as NCHRP Report 556. Contact: Andrew C. Lemer, 202/334-3972 |
| 12-60 | Recommended REVISIONS to the AASHTO LRFD Bridge Design Specifications for high strength concrete relating to reinforcement bond. | Completed November 2006. Recommended changes to specifications incorporated in AASHTO LRFD Bridge Design Specifications. To be published as NCHRP Report 603. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-61 | LRFD METHODS for shear design with PROCEDURES providing a direct solution for transverse and longitudinal reinforcement of concrete structures of common proportions. | Completed in July 2005. Published as NCHRP Report 549. Recommended changes to specifications incorporated in AASHTO LRFD Bridge Design Specifications. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-62 | Recommended LRFD live-load distribution-factor design EQUATIONS for shear and moment that are simpler to apply and have a wider range of applicability than those in the current LRFD. | Completed in January 2005. Published as NCHRP Report 592. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-62A | Recommended LRFD live-load distribution factor design EQUATIONS. | Completed in December 2006. Published as NCHRP Report 592. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-63 | REVISIONS to the legal loads for posting as depicted in the AASHTO Manual for Condition Evaluation of Bridges and the AASHTO Guide Manual for Condition Evaluation and Load and Resistance Factor Rating of Highway Bridges. | Completed August 2006. Published as NCHRP Report 575. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-64 | Recommended REVISIONS to the AASHTO LRFD Bridge Design Specifications to extend the applicability of the flexural and compression design provisions for reinforced and prestressed concrete members to concrete strengths up to 18 ksi. | Completed May 2007. Published as NCHRP Report 595. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-65 | Recommended GUIDELINES for design, fabrication, and construction of full-depth, precast-concrete bridge deck panel systems and durable and rapidly constructed connections between panels. | Completed November 2006. Published as NCHRP Report 584. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-67 | METHODOLOGIES and SOFTWARE for network- and project-level optimization of multiple, user-specified performance criteria for bridge management. | Completed December 2006. Published as NCHRP Report 590. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-68 | SPECIFICATIONS and commentary for rotational design capacity and quality assurance of elastomeric bridge bearings. | Completed December 2006. Published as NCHRP Report 596. Recommended specifications under consideration by AASHTO. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-69 | Design and construction GUIDELINES for long-span decked precast, prestressed concrete girder bridges for possible incorporation into the AASHTO LRFD Design Specifications. | Completed June 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 12-70 | LRFD SPECIFICATIONS for the seismic design of retaining walls, buried structures, slopes, and embankments. | Completed December 2007. Published as NCHRP Report 611. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-71 | SPECIFICATIONS, COMMENTARY, and EXAMPLES for the design of horizontally curved concrete box-girder highway bridges. | Completed December 2007. Published as NCHRP Report 620. Contact: Waseem Dekelbab, 202/334-1409 |

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|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 12-72 | Design GUIDANCE for improving the structural performance and resistance to explosive effects of new and existing bridges. | Completed December 2008. Publication decision pending. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-73 | PROCEDURES and CRITERIA for evaluating the effects of mechanical and environmental loads on the durability of bonded CFRP repair and strengthening of concrete beams. | Completed in December 2008. Contact: Amir N. Hanna, 202/334-1432 |
| 12-74 | A design METHODOLOGY, connection DETAILS, and design and construction SPECIFICATIONS for precast bent cap systems under seismic loading. | Completion December 2009. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-75 | DESIGN METHODS and SPECIFICATIONS for fiber reinforced polymer systems used for strengthening concrete girders in shear. | Completed June 2009. Published as NCHRP Report 678 and distributed to SCOBS. Contact: Amir N. Hanna, 202/334-1432 |
| 12-76 | Develop and demonstrate the application of PROTOCOLS for collecting and processing traffic data to calibrate national bridge live-load models. | Completion August 2008. Contractor's final report available on NCHRP website. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-77 | Recommended revisions to the AASHTO LRFD Bridge Design Specifications and the AASHTO LRFD Bridge Construction Specifications to ensure the safe and economic use of high-strength steel reinforcement in structural concrete members. | Completion April 2010. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-78 | REFINEMENTS to the LRFR methods in the AASHTO Manual for Bridge Evaluation and EXPLANATIONS of changes in truck weight restrictions. | Completion March 2010. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-79 | GUIDANCE on selecting analytical methods for design and RECOMMENDATIONS on the level of erection analysis, erection plan detail, and submittals for skewed and/or horizontally curved steel deck-girder bridges. | Completion October 2010. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-80 | Revisions to the AASHTO LRFD Bridge Design SPECIFICATIONS and commentary for rational design of minimum reinforcement to prevent brittle failure of concrete sections. | Completion November 2009. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-81 | Revise and update Section 7, "Fatigue Evaluation of Steel Bridges" of the MANUAL for Bridge Evaluation for consideration by AASHTO. | Completion April 2011. Contact: Waseem Dekelbab, 202/334-1409 |
| 14-19 | A HANDBOOK that provides up-to-date guidance to assess the existing condition of culverts; provides assistance in the selection and design of suitable rehabilitation options; and provides information on various methods of construction associated with culvert rehabilitation. The emphasis of the handbook is on culvert rehabilitation that minimizes disruption to traffic and the road surface, while maximizing hydraulic capacity of the rehabilitated culvert. | Completion May 2011. Contact: David A. Reynaud, 202/334-1695 |
| 15-28 | Windows®-based, user-friendly buried structure analysis and design PROGRAM and associated training MATERIALS. | Completed March 2008. Published as NCHRP Report 619 with CANDE-2007 software. Contact: Waseem Dekelbab, 202/334-1409 |
| 15-29 | SPECIFICATIONS and refined methods of analysis for the distribution of live load to buried structures. | Completion May 2009. Contact: Waseem Dekelbab, 202/334-1409 |
| 17-10 | Revised SPECIFICATIONS for the design of structural supports for highway signs, luminaires, and traffic signals. | Adopted by AASHTO in May 1999. Published as NCHRP Report 441. Contact: Waseem Dekelbab, 202/334-1409 |

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|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17-10(2) | ENHANCEMENTS to the AASHTO Specifications for the design of structural supports for highway signs, luminaires, and traffic signals. | Completed in June 2002. Published as NCHRP Report 494. Contact: Waseem Dekelbab, 202/334-1409 |
| 18-6A | A MANUAL on service life of corrosion-damaged reinforced concrete bridge superstructure elements. | Completed in January 2006. Published as NCHRP Report 558. Contact: Amir N. Hanna, 202/334-1432 |
| 18-7 | Design GUIDELINES for estimating prestress losses in pretensioned high-strength concrete bridge girders. | Completed in September 2002 and distributed to SCOBS. Published as NCHRP Report 496. Included in the AASHTO LRFD Design Specifications. Contact: Amir N. Hanna, 202/334-1432 |
| 18-12 | GUIDELINES for the use of self-consolidating concrete in precast, prestressed concrete bridge elements for possible incorporation into the AASHTO LRFD Design and Construction Specifications. | Completed in June 2008. Published as NCHRP Report 628. Contact: Amir N. Hanna, 202/334-1432 |
| 18-14 | PROCEDURES for the acceptance, repair, or rejection of precast/prestressed concrete girders with longitudinal web cracking. | Completion November 2009. Contact: Waseem Dekelbab, 202/334-1409 |
| 18-15 | GUIDE SPECIFICATIONS for the use of lightweight concrete in high-strength prestressed concrete girders and in high-performance bridge decks and related ADDITIONS/CHANGES TO AASHTO LRFD Bridge Design and Construction Specifications. | Completion mid-2010. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(45) | Revised seismic design PROVISIONS (Division I-A) of the AASHTO Standard Specifications for Highway Bridges. | Adopted by AASHTO in June 1994. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(46) | AASHTO GUIDELINES for bridge management systems. | Adopted by AASHTO in 1992. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(69) | LRFD bridge construction SPECIFICATIONS. | Adopted by AASHTO in 1995. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(70) | Revised COMMENTARY for the 1996 AASHTO/AWS bridge welding code. | Completed in December 1999. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(88) | Developing new AASHTO LRFD SPECIFICATIONS for retaining walls. | Completed in December 1998. Adopted by AASHTO in 2001. See NCHRP Project 20-7(132). Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(89) | Design PROVISIONS for plastic pipe and culverts for inclusion in current LRFD specifications. | Completed in August 1999. Adopted by SCOBS. Published as NCHRP Report 438. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-7(92) | RECOMMENDATIONS affecting the durability of precast segmental bridges. | Agency report available as NCHRP Web-Only Document 15. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(97) | PERFORMANCE MEASURES for bridges. | Completed in June 2000. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(99) | Design SPECIFICATIONS for cotton duck bridge bearings. | Completed in May 1999. Under consideration by SCOBS. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(100) | RESEARCH NEEDS for suspension bridge main cable inspection and evaluation. | Completed in June 1999. Agency report available as NCHRP Web-Only Document 20. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(106) | Design GUIDELINES for determining bearing and joint installation temperatures and thermal movement in concrete bridges. | Completed in December 1999. Under consideration by SCOBS. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(107) | SPECIFICATIONS for the distribution of shear in skewed multi-beam bridges. | Completed in December 2001. Contact: Waseem Dekelbab, 202/334-1409 |

NCHRP Products for AASHTO Committees
(Updated 4/28/2011)

| Project | Product | Status |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20-7(121) | STRATEGIC PLAN for bridge engineering. | Completed. Adopted by SCOBS in May 2000. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(122) | EVALUATION of load rating procedures developed in NCHRP Project 12-46. | Completed in April 2005. Resulted in full adoption of NCHRP 12-46 recommendations by AASHTO in 2005. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(132) | LRFD SPECIFICATIONS for the design of retaining walls. | Completed. Adopted by SCOBS in May 2001 with material from NCHRP Project 20-7(88). Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(133) | RECOMMENDATIONS on live load deflection limits for steel bridges. | Completed in May 2002. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(180) | SUMMARY of international practice on bridge girder and deck strengthening with fiber-reinforced polymer composite. | Cancelled--overlaps with work performed in NCHRP Projects 10-59 and 10-64. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(183) | LRFD foundation IMPLEMENTATION and SPECIFICATION development. | Completed in January 2006. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(186) | UPDATE to the calibration report for AASHTO LRFD code. | Completed January 2007. Report available on project web site. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(193) | Seismic design guide SPECIFICATIONS that reflect a consensus among state bridge engineers on how earthquake forces and ground motions should be considered when designing a new bridge. | Completed in July 2006. Under consideration for adoption by AASHTO. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(199) | STRATEGIC PLAN for bridge engineering. | Completed in July 2005. Adopted by AASHTO Highway Subcommittee on Bridges and Structures. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(209) | SPECIFICATIONS and commentary language to update the 4th Edition of the Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals based on the findings of recent research. | Completed December 2006. Recommendations under consideration by AASHTO. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(216) | A research problem statement identifying research needed to make all pertinent AASHTO documents applicable to design concrete strengths up to 15.0 ksi or higher. | Completed December 2007. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(217) | Design examples to help implement the STM (Strut and Tie Model) provisions for design of new structures and for evaluation of existing structures. | Completed September 2007. Report available on project website. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(229) | A strategic plan for increasing the use of incremental launching of highway bridges in the U.S. | Completed October 2007. Report available on project website. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(244) | Prepare LRFD SPECIFICATIONS and commentary for the design of pedestrian bridges | Completed January 2009. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(252) | GUIDELINES for Implementing Quality Control and Quality Assurance for Bridge Inspection. | Completed April 2009. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-7(262) | Update of the AASHTO Guide SPECIFICATIONS for Seismic Isolation Design and EXAMPLES. | Completion June 2011. SPECIFICATIONS adopted in 2009. Design EXAMPLES are under development. Contact: Waseem Dekelbab, 202/334-1409 |
| 20-67 [TCRP Proj. J-10G] | GUIDE to making transportation tunnels safe and secure. | Completed June 2006. Published as NCHRP Report 525/TCRP Report 86, Vol. 12. Contact: S. A. Parker, 202/334-2554 |
| 21-3 | INSTRUMENTATION for measuring scour at bridge piers. | Completed in February 1997. Report and two manuals have been published as NCHRP Reports 396, 397A, and 397B, respectively. Contact: David A. Reynaud, 202/334-1695 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 21-8 | PROCEDURES for use and interpretation of innovative load testing methods for deep foundations. | Completed in October 2004. Final report available as NCHRP Web-Only Document 84. Contact: David A. Reynaud, 202/334-1695 |
| 22-8 | Metric version of guide SPECIFICATIONS for bridge rail selection. | Included by reference in AASHTO Bridge Specifications in 1993. Contact: Charles W. Niessner, 202/334-1431 |
| 24-9 | Improved pile-group DESIGN METHOD and GUIDELINES AND SPECIFICATIONS for field-testing procedures. | Completed in February 2001. Published as NCHRP Report 461. Contact: Waseem Dekelbab, 202/334-1409 |
| 24-10 | GUIDELINES for the application of thermally sprayed metallic coatings for the protection of new steel pilings in immersion and splash zones. | Completed in June 2003. Final report and guidelines published as NCHRP Report 528. Contact: David A. Reynaud, 202/334-1695 |
| 24-17 | LRFD design SPECIFICATIONS for deep foundations. | Completed in October 2002. Partially adopted by AASHTO in 2005. Published as NCHRP Report 507. Contact: Waseem Dekelbab, 202/334-1409 |
| 24-21 | LRFD design GUIDELINES and construction SPECIFICATIONS for soil-nailed retaining structures. | Completion April 2009. Contact: David A. Reynaud, 202/334-1695 |
| 24-22 | Selection GUIDELINES, soil PARAMETERS, testing METHODS, and construction SPECIFICATIONS that will allow the use of a wider range of backfill materials within the reinforced zone of mechanically stabilized earth (MSE) retaining walls. | Completion May 2009. Contact: David A. Reynaud, 202/334-1695 |
| 24-25 | Risk-based GUIDELINES to assist bridge owners in evaluating and prioritizing various courses of action (i.e., investigations, countermeasures, monitoring, rehabilitation, or replacement) for managing bridges with unknown foundations. | Completed October 2006. Contact: Crawford F. Jencks, 202/334-2379 |
| 24-28 | METHODOLOGY that incorporates improved predictive models into an LRFD approach for the design of metal-reinforced systems. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 24-31 | Recommended changes to Section 10 of the AASHTO LRFD Bridge Design Specifications for the strength limit state design of shallow foundations. | Completion June 2009. Contact: Waseem Dekelbab, 202/334-1409 |
| 25-30 | A GUIDE for selecting and using temporary bridging for traffic detours or construction access, in order to avoid or minimize the environmental impacts of roadway construction over or adjacent to rivers, wetlands, and other waters of the United States. | Summarized in NCHRP Research Results Digest 330. Contact: Christopher J. Hedges, 202/334-1472 |

Highway Subcommittee on Construction

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| 1-45 | PROCEDURES for estimating the effects of pavement condition on vehicle operating costs for use in evaluating pavement-investment strategies. | Completion late 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 5-13(2) | GUIDELINES for illumination requirements for nighttime highway work. | Completed in May 2002. Distributed to SCOC. Published as NCHRP Report 498. Contact: Amir N. Hanna, 202/334-1432 |
| 9-27 | SPECIFICATIONS of minimum HMA lift thicknesses and minimum in-place density necessary to achieve an impermeable, durable pavement. | Completed in May 2004. Published as NCHRP Report 531; agency report available as NCHRP Web-Only Document 68. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-40 | Field GUIDELINES and related test METHODS for optimizing tack coat performance in HMA placement. | Completion late 2009. Contact: Edward T. Harrigan, 202/334-3232 |

**NCHRP Products for AASHTO Committees
(Updated 4/28/2011)**

| Project | Product | Status |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9-41 | GUIDELINES for the use of permeable friction course in the form of a draft AASHTO recommended practice. | Completed in 2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-42 | WORKBOOK for a constructibility review process. | Completed in August 1996. Published as NCHRP Reports 390 and 391. Contact: Crawford F. Jencks, 202/334-2379 |
| 10-47 | Recommended GUIDELINES for longitudinal pavement profile measurement. | Completed in February 1999. Published as NCHRP Report 434 and NCHRP Research Results Digest 244. Contact: Crawford F. Jencks, 202/334-2379 |
| 10-49 | Comprehensive GUIDELINES for implementing selected nontraditional contracting methods for highway construction projects and TECHNICAL PROVISIONS for possible incorporation into the AASHTO Guide Specification for Highway Construction. | Completed. Report and technical provisions submitted to SCOC in April 2000. Guidelines published as NCHRP Report 451. Contact: Amir N. Hanna, 202/334-1432 |
| 10-54 | GUIDANCE on quality ratings for contractor prequalification and bidding. | Completed in May 2001. Agency report available as NCHRP Web-Only Document 38. Contact: Crawford F. Jencks, 202/334-2379 |
| 10-58 | RESEARCH AGENDA for construction engineering and management needs. | Completed in November 2001. Agency report available as NCHRP Web-Only Document 51. Summary brochure distributed to Subcommittee and available on Subcommittee's website. Contact: Crawford F. Jencks, 202/334-2379 |
| 10-58(01) | GUIDELINES for the use of time-related incentive and disincentive provisions in highway construction contracts. | Completion June 2009. Contact: David A. Reynaud, 202/334-1695 |
| 10-61 | Procurement METHODS, screen CRITERIA, and implementation STRATEGIES for using best value procurement methods in awarding highway construction contracts. | Completed in October 2005. Published as NCHRP Report 561. Contact: David A. Reynaud, 202/334-1695 |
| 10-65 | Recommended NDT test METHODS that are ready and appropriate for implementation as routine, practical, and effective quality control or quality acceptance tests for flexible pavement construction. | Completed in 2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-67 | GUIDELINES for identifying and selecting methods for texturing concrete pavements. | Completed in November 2008. Will be published as NCHRP Report 637. Contact: Amir N. Hanna, 202/334-1432 |
| 10-68 | GUIDELINES for the project-level application of pavement warranties. | Completion May 2009. Contact: David A. Reynaud, 202/334-1695 |
| 10-69 | GUIDELINES for dowel alignment in concrete pavements. | Completed in February 2009. Will be published as NCHRP Report 639. Contact: Amir N. Hanna, 202/334-1432 |
| 17-17 | GUIDELINES for planning nighttime road work and PROCEDURES for evaluating the effectiveness of night work. | Completed in June 2002. Published as NCHRP Reports 475 and 476. Contact: Charles W. Niessner, 202/334-1431 |
| 18-4B | GUIDELINES for "early-opening-to-traffic" portland cement concrete for pavement rehabilitation for possible incorporation into the AASHTO Guide Specifications for Highway Construction. | Completed in September 2004. Published as NCHRP Report 540. Contact: Amir N. Hanna, 202/334-1432 |
| 20-6(13-2) | Emergency Contracting: Flexibilities in Contracting PROCEDURES During an Emergency | Completed in December 2007. Published as NCHRP Legal Research Digest 49. Contact: Crawford F. Jencks, 202/334-2379 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 20-7(44) | Recommended REVISIONS to Section 100 of the AASHTO Guide Specifications for Highway Construction. | Adopted by AASHTO with minor modifications in 1993. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-7(124) | METHOD for tracking costs and benefits of constructability reviews and GUIDANCE for implementing constructability reviews. | Completed in January 2002. Publication available on Subcommittee's website. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-7(172) | Recommended AASHTO Design-Build Procurement GUIDE. | Completed in August 2005. Referred to Joint Task Force on Design-Build. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-7(207 & 220) | Update of the AASHTO Guide SPECIFICATIONS for Highway Construction. | Completed October 2006. Final report to AASHTO. Contact: David A. Reynaud, 202/334-1695 |
| 20-7(225) | Best PRACTICES in the management of design errors and omissions. | Completed in March 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 21-09 | Recommended construction SPECIFICATIONS for the application of intelligent compaction systems in soils and aggregate base materials. | Completion June 2009 Contact: David A. Reynaud, 202/334-1695 |

Highway Subcommittee on Design

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| 1-29 | Design GUIDELINES for the improved surface drainage of pavements. PAVDRN COMPUTER PROGRAM to predict hydroplaning. | Completed in April 1997. Guidelines published as NCHRP Research Results Digest 243. DOS-based computer program available from NCHRP. Contact: Edward T. Harrigan, 202/334-3232 |
| 1-40B | MANUAL OF PRACTICE for the Mechanistic-Empirical Pavement Design Guide and software. | Completed 2007. Transferred to AASHTO JTCP. Contact: Edward T. Harrigan, 202/334-3232 |
| 3-42 | REVISION to stopping sight distance model used in Green Book. | Completed in November 1994. Published as NCHRP Report 400. Incorporated into the 2000 Green Book. Contact: B. Ray Derr, 202/334-3231 |
| 3-52 | GUIDE for access management techniques. | Completed in March 1998. Published as NCHRP Report 420. Contact: B. Ray Derr, 202/334-3231 |
| 3-53 | A comprehensive and detailed HOV systems MANUAL. | Completed in February 1998. Published as NCHRP Reports 413 and 414. Contact: Crawford F. Jencks, 202/334-2379 |
| 3-65 | Analysis METHODS and design CRITERIA for roundabouts. | Completed in June 2006. To be published as an NCHRP Report. Contact: B. Ray Derr, 202/334-3231 |
| 3-69 | A METHODOLOGY to assist designers in developing appropriate design and traffic control recommendations for the safe and efficient movement of traffic through construction zones on high-speed highways. | Completed October 2006. Published as NCHRP Report 581. Contact: Charles W. Niessner, 202/334-1431 |
| 3-72 | Design GUIDANCE for lane width, free-flow turn lanes, and deceleration lanes. | Completed in September 2006. To be published as an NCHRP Report. Contact: B. Ray Derr, 202/334-3231 |
| 3-74 | GUIDELINES for the selection of speed reduction techniques at high speed intersections. | Published as NCHRP Report 613. Contact: Christopher J. Hedges, 202/334-1472 |
| 3-88 | GUIDELINES for selecting appropriate ramp and interchange spacing based on safety and operational impacts. | In progress. Completion Summer 2011. Contact: Christopher J. Hedges, 202/334-1472 |
| 7-12(2) | MicroBENCOST SOFTWARE computerizing the Red Book methodology. Enhanced metric and English versions. | Completed in June 1997. Published as NCHRP Research Results Digest 242. Contact: Crawford F. Jencks, 202/334-2379 |
| 15-12 | RECOMMENDATIONS for revised width requirements in the Green Book for low-volume, two-lane roads. | Completed in October 1995. Contact: Charles W. Niessner, 202/334-1431 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15-14(1) | New or revised MODELS for intersection sight distance for Green Book. | Completed in August 1996. Published as NCHRP Report 383. Incorporated into the 2000 Green Book. Contact: B. Ray Derr, 202/334-3231 |
| 15-14(2) | Green Book GUIDELINES for median-width parameters and design CRITERIA for intersections on rural and suburban highways with partial or no access control. | Completed in May 1995. Published as NCHRP Report 375. Incorporated into the 2000 Green Book. Contact: B. Ray Derr, 202/334-3231 |
| 15-16A | Recommended superelevation design GUIDELINES and modifications to the Green Book. | Completed in August 1999. Published as NCHRP Report 439. Partially incorporated into the 2000 Green Book by AASHTO Task Force on Geometric Design. Contact: B. Ray Derr, 202/334-3231 |
| 15-17 | GUIDELINES on design consistency on two-lane roads. | Completed in March 2003. Published as NCHRP Report 502. Contact: B. Ray Derr, 202/334-3231 |
| 15-18 | Recommended design GUIDELINES modifying concept and use of design speed and operating speed. | Completed in July 2002. Published as NCHRP Report 504. Contact: B. Ray Derr, 202/334-3231 |
| 15-19 | GUIDANCE on increasing context-sensitivity in highway design. | Completed in August 2002. Published as NCHRP Report 480. Contact: B. Ray Derr, 202/334-3231 |
| 15-20, 20-7(105), & 20-7(161) | GUIDE on pedestrian facilities. | Completed in early 2001. Published by AASHTO in 2004. Contact: B. Ray Derr, 202/334-3231 |
| 15-23 | CONVERSION of the AASHTO Model Drainage Manual and Highway Drainage Guidelines to dual units. | Completed in July 2003. Final products delivered to AASHTO for incorporation into the AASHTO Model Drainage Manual and the AASHTO Highway Drainage Guidelines. Contact: David A. Reynaud, 202/334-1695 |
| 15-24 | Hydraulic loss COEFFICIENTS for the analysis and design of culverts for conventional and nontraditional, environmentally sensitive culvert installations. | Completion June 2009. Contact: David A. Reynaud, 202/334-1695 |
| 15-25 | RECOMMENDATIONS on improving the design speed process for setting design criteria. | Completion mid-2007. Contact: B. Ray Derr, 202/334-3231 |
| 15-30 | Design GUIDANCE for median intersections on high-speed highways. | Completion late 2006. Contact: B. Ray Derr, 202/334-3231 |
| 15-31 | Design GUIDANCE for acceleration and deceleration lanes. | Completion late 2007. Contact: B. Ray Derr, 202/334-3231 |
| 15-35 | GUIDELINES for the geometric design of driveways. | Completion June 2009. Contact: David A. Reynaud, 202/334-1695 |
| 15-36 | PROCEDURES for estimating joint probabilities of design coincident flows at stream confluences and GUIDELINES for applying the PROCEDURES. | Completion October 2009. Contact: David A. Reynaud, 202/334-1695 |
| 17-9 | COMPILATION of the known relationships between highway design and safety. | Completed in December 1994. Published as NCHRP Report 374. Contact: Charles W. Niessner, 202/334-1431 |
| 17-11 | Relationships between side slope and speed for UPDATES to Roadside Design Guide. | Completed in September 2004. Revisions will be made under 17-11(2). Contact: Charles W. Niessner, 202/334-1431 |
| 17-13 | Comprehensive set of STRATEGIES for improving roadside safety. | Completed in March 2001. NCHRP Research Results Digests 220 and 256 have been published. Materials generated in the project have been incorporated in the AASHTO Strategic Highway Safety Plan. Contact: Charles W. Niessner, 202/334-1431 |
| 17-14 | Recommended GUIDELINES on installing median barrier and selecting median width and slope for inclusion in Green Book and Roadside Design Guide. | Completed in September 2004. Report provided to AASHTO. Contact: B. Ray Derr, 202/334-3231 |

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| Project | Product | Status |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17-20 (01) | REVISION of the AASHTO Roadside Design Guide. | Completed in September 2001. Incorporated into the AASHTO 2002 Roadside Design Guide. Contact: David A. Reynaud, 202/334-1695 |
| 20-7(108) | Design GUIDELINES for very-low-volume local roads. | Completed in June 2001. Submitted to AASHTO. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-7(114) & 20-7(169) | GUIDE on context-sensitive design. | Completed in August 2003. Published by AASHTO in 2004. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(118) | GUIDELINES for highway design to accommodate older drivers and pedestrians. | Completed in July 2001. Contact: Charles W. Niessner, 202/334-1431 |
| 20-7(139) | RECOMMENDATIONS on 2+1 road designs. | Completed in January 2003. Published as NCHRP Research Results Digest 275. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(154) | Draft GUIDES for designing high occupancy vehicle facilities and park-and-ride facilities. | Completed in November 2003. Published by AASHTO in 2004. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(176) | Updated EXHIBITS for the AASHTO Green Book. | Completion late 2006. Contact: B. Ray Derr, 202/334-3231 |
| 20-43 | CD-ROM version of the Green Book. | Completed in September 1998. Published in 2000 by AASHTO. Contact: B. Ray Derr, 202/334-3231 |
| 22-7 | PROCEDURES for crash-testing roadside features. | Completed in August 1992. Published as NCHRP Report 350. Adopted as a national standard by FHWA in 1993. Contact: Charles W. Niessner, 202/334-1431 |
| 22-9 and 22-9(2) | PROCEDURE (RSAP) for assessing the need for roadside safety improvements. | Completed in September 2003. Included as Appendix A in the AASHTO Roadside Design Guide. Published as NCHRP Report 492. Contact: Charles W. Niessner, 202/334-1431 |
| 22-10 | GUIDE for standard highway barrier hardware. GUIDE for standard small sign support hardware. | Completed in December 1996. Barrier Hardware Guide and Small Sign Support Guide published by AASHTO. CAD files for hardware items are available. Contact: Charles W. Niessner, 202/334-1431 |
| 22-11 | ASSESSMENT of the safety impacts of light trucks and roadside features. | Completed in June 2001. Published as NCHRP Report 471. Contact: Charles W. Niessner, 202/334-1431 |
| 22-12(2) | GUIDELINES for the selection and installation of roadside safety hardware. | Completed February 2009. Will be published as NCHRP Report 638. Contact: Charles W. Niessner, 202/334-1431 |
| 22-13 and 22-13(2) | PROCEDURES for conducting in-service performance evaluations of roadside safety features. | Completed in November 2002. Published as NCHRP Report 490. Contact: Charles W. Niessner, 202/334-1431 |
| 22-14 | Interim review and UPDATES to procedures for crash testing (NCHRP Report 350). | Completed in May 2001. Contact: Charles W. Niessner, 202/334-1431 |
| 22-15 | GUIDELINES to ensure compatibility of vehicles and roadside hardware. | Completed in February 2003. Agency report available as NCHRP Web-Only Document 61. Contact: Charles W. Niessner, 202/334-1431 |
| 22-16 | DESIGN for an improved nonproprietary roadside barrier system. | Completed in June 2002. Phase I published as NCHRP Research Results Digest 273. Contact: Charles W. Niessner, 202/334-1431 |
| 22-17 | GUIDELINES for using curbs and curb-barrier combinations on roadways with operating speeds greater than 60 kph/35 mph. | Completed in April 2004. Published as NCHRP Report 537. Contact: Charles W. Niessner, 202/334-1431 |
| 22-18 | Standard PLANS and SPECIFICATIONS for nonproprietary crashworthy workzone traffic control devices. | Completed in May 2005. Published as NCHRP Report 553. Contact: Charles W. Niessner, 202/334-1431 |

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| Project | Product | Status |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22-20 | PROCEDURES for designing roadside barrier systems placed on mechanically stabilized earth retaining walls. | Completed August 2009. Published as NCHRP Report 663. Contact: Charles W. Niessner, 202/334-1431 |
| 24-7 and 24-7(2) | Practical selection CRITERIA and GUIDELINES and SPECIFICATIONS for bridge pier scour countermeasures. | Completed September 2006. Published as NCHRP Report 593. Contact: David A. Reynaud, 202/334-1695 |
| 24-14 | GUIDELINES for applying scour-prediction methodology at contracted openings. | Completed in September 2004. Final report available as NCHRP Web-Only Document 83 Contact: David A. Reynaud, 202/334-1695 |
| 24-15 | PROCEDURES to predict maximum scour at bridges founded in or on cohesive materials. | Completed in January 2003. Published as NCHRP Report 516. Contact: David A. Reynaud, 202/334-1695 |
| 24-16 | METHODOLOGY to predict channel migration in proximity of transportation facilities. | Completed in June 2003. Published as NCHRP Report 533 and CRP-CDs-48 & 49; agency report available as NCHRP Web-Only Document 67. Contact: David A. Reynaud, 202/334-1695 |
| 24-18 | Selection CRITERIA and GUIDELINES for the design and construction of countermeasures to protect bridge abutments and approach embankments from scour damage. | Completed December 2006. Published as NCHRP Report 587. Contact: David A. Reynaud, 202/334-1695 |
| 24-19 | Selection CRITERIA, design GUIDELINES, and TECHNIQUES for the type, size and placement of environmentally sensitive channel- and bank-protection measures. | Completed in December 2004. Published as NCHRP Report 544. Contact: David A. Reynaud, 202/334-1695 |
| 24-20 | METHODOLOGY to predict scour at bridge abutments founded on cohesionless soils. | Completion April 2009. Contact: David A. Reynaud, 202/334-1695 |
| 24-24 | Decision analysis TOOL and GUIDELINES to assist hydraulic engineers in selecting the most appropriate numeric modeling software for analyzing bridge opening in riverine and tidal systems. | Completed December 2006. Published as NCHRP Web-Only Document 106. Contact: David A. Reynaud, 202/334-1695 |
| 24-26 | GUIDELINES for predicting the size and geometry of debris accumulations at bridge piers and METHODS for quantifying scour at bridge piers resulting from debris accumulations. | Completion April 2009. Contact: David A. Reynaud, 202/334-1695 |
| 24-27 | RECOMMENDATIONS for adoption of specific research results into AASHTO policies & procedures, and DRAFT BRIDGE-SCOUR SECTIONS of the "Policy for Design of Highway Drainage Facilities" and "Recommended Procedures for Design of Highway Drainage Facilities". | Completion December 2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 24-29 | METHODOLOGY for estimating the time rate of scour and the design scour depth of bridge founded on rock design and construction GUIDELINES for application of the methodology. | Completion August 2009. Contact: David A. Reynaud, 202/334-1695 |
| 25-29A | GUIDELINES for design and management of historic road corridors. | Completion December 2009. Contact: Edward T. Harrigan, 202/334-3232 |

Technical Committee on Environmental Design

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| 15-33 | A comprehensive GUIDE to integrating landscape and environmental design principles into the overall transportation project-development process. | Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |
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NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Technical Committee on Geometric Design</u> | | |
| 3-62 | GUIDELINES for accessible pedestrian signals. Model language for the MUTCD delivered in spring 2005. Training materials will be developed in 2008. | Completed March 2007. NCHRP Research Results Digest 278 summarizes synthesis and guide to best practices. Publication and workshops 2008. Contact: S. A. Parker, 202/334-2554 |
| 3-78A | GUIDE to crossing solutions at roundabouts and channelized turn lanes for pedestrians with vision disabilities. Model language for the Green Book will be developed. | Completion February 2009. Contact: S. A. Parker, 202/334-2554 |
| 3-88 | GUIDELINES for selecting appropriate ramp and interchange spacing based on safety and operational impacts. | In progress. Completion Summer 2011. Contact: Christopher J. Hedges, 202/334-1472 |
| 15-26 | Modified CRITERIA for determining passing sight distance. | Research completed. Published as NCHRP Report 605. Contact: Christopher J. Hedges, 202/334-1472 |
| 15-27 | GUIDELINES to assist designers in making reasonable choices among possible design element trade-offs in the form of a draft AASHTO recommended practice. | Completed in 2009. Coordinated with TCGD by panel members. Contact: Edward T. Harrigan, 202/334-3232 |
| 15-34 | GUIDE for performance-based analysis of geometric designs. | Completion early 2009. Contact: B. Ray Derr, 202/334-3231 |
| 15-35 | GUIDELINES for the geometric design of driveways. | Completion June 2009. Contact: David A. Reynaud, 202/334-1695 |
| 22-21 | GUIDELINES for designing median typical cross-sections. | Completion early 2009. Contact: B. Ray Derr, 202/334-3231 |

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| <u>Technical Committee on Hydrology and Hydraulics</u> | | |
| 15-36 | PROCEDURES for estimating joint probabilities of design coincident flows at stream confluences and GUIDELINES for applying the PROCEDURES. | Completion October 2009. Contact: David A. Reynaud, 202/334-1695 |
| 24-29 | METHODOLOGY for estimating the time rate of scour and the design scour depth of bridge founded on rock design and construction GUIDELINES for application of the methodology. | Completion August 2009. Contact: David A. Reynaud, 202/334-1695 |
| 24-33 | Quantitive engineering GUIDELINES, design METHODS, and recommended SPECIFICATIONS for in-stream, low-flow structures that address (1) erosion protection, channel stability, sediment transport, and scour stability of the stream; (2) cost-effectiveness, long-term performance in terms of the low-flow structure stability, durability, and survivability; (3) recommended installation practices; and (4) maintenance requirements, including a description of conditions under which in-stream, low-flow structures are either successful or not effective in providing protection against erosion and scour and in performing applicable habitat restoration functions. | Completion May 2011. Contact: David A. Reynaud, 202/334-1695 |
| 25-31 | GUIDELINES for Evaluating and Selecting Modifications to Existing Roadway Drainage Infrastructure to Improve Water Quality in Ultra-Urban Areas. | In progress. Completion Summer 2010. Contact: Christopher J. Hedges, 202/334-1472 |

NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Technical Committee on Metrication</u> | | |
| 20-7(61) | AASHTO metrication CLEARINGHOUSE. | Completed in May 1995. Transferred to AASHTO in January 1998. Contact: Edward T. Harrigan, 202/334-3232 |
| <u>Technical Committee on Non-Motorized Transportation</u> | | |
| 15-37 | Revised AASHTO GUIDE for the Development of Bicycle Facilities. | Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-7(187) | Updated AASHTO GUIDE for the development of bicycle facilities. | Completed in April 2005. Forwarded to AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| <u>Joint Technical Committee on Pavements</u> | | |
| 1-30 | REVISION of the AASHTO Guide for the Design of Pavement Structures to improve consideration of support in the design of portland cement concrete pavements. | Approved by AASHTO in 1997. Published as a supplement to the 1993 AASHTO Guide for the Design of Pavement Structures. Contact: Amir N. Hanna, 202/334-1432 |
| 1-33 | METHODOLOGY that may be integrated into pavement management systems to improve pavement-investment decisions. | Completed in December 1999. Summarized in NCHRP Research Results Digest 246. Contact: Amir N. Hanna, 202/334-1432 |
| 1-34 | GUIDELINES for subsurface pavement drainage. | Completed in March 1998. Guidelines included in AASHTO Guide for the Design of Pavement Structures. Contact: Edward T. Harrigan, 202/334-3232 |
| 1-34A | Recommended PRACTICE to estimate the contribution of pavement structural layers and subgrade to the total rutting of roadways. | Completed in late 2001. Published as NCHRP Report 468. Under review by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 1-35A | Recommended GUIDE for pavement management. | Completed in March 2000. Endorsed by JTFP and SCOH; published in 2001 as AASHTO Pavement Management Guide. Contact: Amir N. Hanna, 202/334-1432 |
| 1-37A | Recommended GUIDE for design of new and rehabilitated pavement structures based on mechanistic principles. | Completed in April 2004. Available online at http://www.trb.org/mepdg . Endorsed by TCOP and SCOH. Published by AASHTO as "Mechanistic-Empirical Pavement Design Guide, Interim Edition: A Manual of Practice". Contact: Amir N. Hanna, 202/334-1432 |
| 1-39 | Computational SOFTWARE for load spectrum forecasting for use in pavement analysis and design. | Completed in August 2004. Published as NCHRP Report 538; software available online. Contact: Amir N. Hanna, 202/334-1432 |
| 1-41 | Enhanced pavement design and analysis PROCEDURES by incorporating mechanistic-based models for predicting reflection cracking in hot-mix asphalt overlays of flexible and rigid pavements. | Completion late 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 1-42A | Enhanced pavement design and analysis PROCEDURES by incorporating mechanistic-based models for predicting top-down cracking in hot-mix asphalt layers of new and rehabilitated flexible pavements. | Completion late 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 1-43 | Recommended GUIDE on frictional characteristics, tire-pavement noise, and other issues related to pavement surfaces. | Completed in September 2006. Endorsed by TCOP and SCOH; published by AASHTO as "Guide for Pavement Friction". Contact: Amir N. Hanna, 202/334-1432 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1-45 | PROCEDURES for estimating the effects of pavement condition on vehicle operating costs for use in evaluating pavement-investment strategies. | Completion late 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 10-41 | Recommended GUIDELINES for the design and construction of unbonded portland cement concrete overlays. | Completed in August 1997. Published as NCHRP Report 415. Contact: Amir N. Hanna, 202/334-1432 |
| 10-44A | Nondestructive TEST METHODS for determining the in situ material properties of asphalt concrete pavement layers. | Completed in October 2001. Summarized in NCHRP Research Results Digest 271. Contact: Amir N. Hanna, 202/334-1432 |
| 10-75 | A GUIDE for a systems approach to pavement-type selection. | Completion mid 2010. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(39) | REVISION of AASHTO overlay design procedures. | Incorporated into 1993 AASHTO Guide for the Design of Pavement Structures. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-7(127) | STRATEGIC PLAN for pavement research. | Completed in March 2001. Endorsed by JTFP. Published as NCHRP Research Results Digest 276. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(223) | BUSINESS NEEDS for pavement engineering. | Completed in June 2008. Endorsed by JTCOP. Contact: Amir N. Hanna, 202/334-1432 |

Technical Committee on Roadside Safety

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| 16-4 | DESIGN GUIDELINES for the placement of roadside treatments in urban areas. | Completed February 2008. Published as NCHRP Report 612. Contact: Charles W. Niessner, 202/334-1431 |
| 17-32 | GUIDELINES for safety and design engineers for the application of shoulder and centerline rumble strips on rural and urban arterials. | Completed March 2009. Published as NCHRP Report 641. Contact: Charles W. Niessner, 202/334-1431 |
| 22-14(2) | Revised crash testing PROCEDURES for roadside safety hardware. | Completed February 2008. AASHTO publication - Manual for Assessing Safety Hardware. Contact: Charles W. Niessner, 202/334-1431 |
| 22-22 | RECOMMENDATIONS for placing barriers on roadside and median slopes. | Contract pending. Contact: B. Ray Derr, 202/334-3231 |
| 22-23 | GUIDELINES to assist maintenance personnel in identifying the levels of damage and deterioration to longitudinal barriers that require repairs to restore operational performance. | Completed December 2009. Published as NCHRP Report 656. Contact: Charles W. Niessner, 202/334-1431 |

Highway Subcommittee on Maintenance

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| 6-13 | GUIDELINES for snow and ice control materials and methods. | Completed in May 2003. Published as NCHRP Report 526 and distributed to SCOM. Incorporated into SICOP training manual. Contact: Amir N. Hanna, 202/334-1432 |
| 6-16 | GUIDELINES for the selection of snow and ice control materials to mitigate environmental impacts. | Completed Summer 2006. Published as NCHRP Report 577. Contact: Christopher J. Hedges, 202/334-1472 |
| 6-17 | METHODS and MEASURES for assessing agency and contractor performance in snow and ice control operations. | Completed in March 2008. Summarized in NCHRP Research Results Digest 335. Contact: Amir N. Hanna, 202/334-1432 |
| 9-37 | Recommended METHODS for the routine measurement of surface energy of aggregates, asphalt binders, and additives for use in estimating moisture and fatigue resistance. | Completed December 2006. Summarized in NCHRP Research Results Digest 316 and Web-Only Document 104. Methods transmitted to FHWA ETG for review. Contact: Edward T. Harrigan, 202/334-3232 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13-2 | GUIDELINES for the selection and application of warning lights on vehicles and mobile equipment used in roadway operations. | Completed in early 2008. Published as NCHRP Report 624. Published by AASHTO as "Guidelines for the Selection and Application of Warning Lights on Roadway Operations Equipment" Contact: Amir N. Hanna, 202/334-1432 |
| 13-3 | A PROCESS for making decisions on outsourcing and privatization of vehicle and equipment fleet maintenance | Completion mid-2010. Contact: Amir N. Hanna, 202/334-1432 |
| 14-11(2) | Enhanced TRAINING COURSE on motivating highway maintenance workers. | Completed in December 2000. Distributed to SCOM and training directors. Contact: Amir N. Hanna, 202/334-1432 |
| 14-12 | GUIDE for developing maintenance quality assurance programs and IMPLEMENTATION WORKSHOPS. | Completed in July 1998. Published as NCHRP Report 422. Workshops continue. Contact: Crawford F. Jencks, 202/334-2379 |
| 14-13 | GUIDE on benchmarking maintenance activities. | Completed in March 2003. Published as NCHRP Report 511 and agency report available as NCHRP Web-Only Document 58. Contact: Christopher J. Hedges, 202/334-1472 |
| 14-14 | METHODOLOGY for estimating optimal timing of preventive maintenance treatment applications. | Completed in December 2003. Published as NCHRP Report 523. Incorporated in a NHI training course. Contact: Amir N. Hanna, 202/334-1432 |
| 14-15 | A national DATABASE SYSTEM of bridge-maintenance actions, materials, methods, and their effectiveness. | Completion late 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 14-16 | AASHTO GUIDELINES for management of roadside vegetation. | Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 14-17 | MANUAL for Emulsion-based chip seals for pavement preservation. | Completion late 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 14-18 | A PROCESS for determining an agency's costs associated with performing highway maintenance. | Completion mid 2010. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(64) | Analysis of current effectiveness of AASHTO maintenance MANUALS, and a recommended plan for current and future updates. | Endorsed by SCOM. Published by AASHTO in 1999. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(83) | A comprehensive GUIDE for establishing a systems approach to snow and ice control. | Endorsed by SCOM. Published by AASHTO in 1999. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(117) | BENEFIT/COST STUDY of RWIS and anti-icing technologies. | Completed in March 2001. Posted by AASHTO as a web document. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(147) | Updated GUIDELINES for control of blowing and drifting snow. | Completed in September 2003. Posted by AASHTO as a web document. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(170) | Updated AASHTO maintenance MANUAL for roadways and bridges. | Completed in August 2004. Endorsed by SCOM. Augmented and published by AASHTO in 2007. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(177) | SYNTHESIS of construction practices and durability aspects of detectable warning products. | Completed in March 2005. Posted by AASHTO as a web document. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(184) | A ROADMAP for research in support of pavement preservation initiatives. | Completed in June 2005. Posted by AASHTO as a web document. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(190) | A METHODOLOGY for evaluating and testing pavement marking materials for high traffic areas and mountain passes. | Completed in April 2006. Posted by AASHTO as a web document. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(200) | SYNTHESIS of current practices relevant to the use of vehicle-based technologies for winter maintenance. | Completed in September 2006. Provided to AASHTO for posting as a web document. Contact: Amir N. Hanna, 202/334-1432 |

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| 20-7(234) | GUIDELINES for Selection of Sealers and Treatments for Bridge Deck Overlays. | Completed in December 2008. Provided to AASHTO; is being considered for publication. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(250) | Updated GUIDE for establishing a systems approach to snow and ice control. | Completed in January 2009. Provided to AASHTO. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(268) | Recommended STRATEGIC PLAN for SCOM, including vision, goals, actions, and organizational structure. | Completed September 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 21-7 | Portable scour-monitoring EQUIPMENT and TECHNIQUES for scour monitoring during flood events. | Completed in November 2002. Published as NCHRP Report 515. Contact: David A. Reynaud, 202/334-1695 |
| 24-6 | An EXPERT SYSTEM for scour and stream stability analysis during bridge inspection. | Completed in June 1999. Published as NCHRP Report 426. Contact: David A. Reynaud, 202/334-1695 |

Highway Subcommittee on Materials

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| 1-28A | Test METHODS for resilient modulus of soils, unbound aggregate, and HMA. | Completed in December 2003. Method for unbound materials under consideration by SCOM task force. Contact: Edward T. Harrigan, 202/334-3232 |
| 1-40B | MANUAL OF PRACTICE for the Mechanistic-Empirical Pavement Design Guide and software. | Completed 2007. Transferred to AASHTO JTCP. Contact: Edward T. Harrigan, 202/334-3232 |
| 1-44 | TEST METHOD for measuring tire-pavement noise. | Completed in June 2008. Published as NCHRP Report 630. Test method adopted as AASHTO TP 76-10 "Standard Method of Test for Measurement of Tire/Pavement Noise Using the On-Board Sound Intensity (OBSI) Method" Contact: Amir N. Hanna, 202/334-1432 |
| 4-18 | PRACTICE for mix design of large-stone paving mixes (LSM). Test METHODS for estimating the degree of stone-on-stone contact, draindown characteristics, and bulk-specific gravity of LSM. LSM field construction GUIDELINES. | Practice and methods transmitted in December 1996 to SCOM. Considered for possible adoption but superseded by SMA and Superpave methods. Published as NCHRP Report 386. Contact: Edward T. Harrigan, 202/334-3232 |
| 4-19 | TEST METHODS for evaluating aggregates used in HMA concrete applications. | Completed in May 1997. Adopted by SCOM as AASHTO provisional test methods. Contact: Amir N. Hanna, 202/334-1432 |
| 4-19(02) | Performance-based TEST METHODS for evaluating aggregates used in pavement utilizing hot-mix asphalt mixtures. | Completed in August 2005. Published as NCHRP Report 557. Contact: Amir N. Hanna, 202/334-1432 |
| 4-20C | TEST METHODS for evaluating aggregates used in portland cement concrete pavements. | Completed in September 2002. Published as NCHRP Research Results Digest 281. Contact: Amir N. Hanna, 202/334-1432 |
| 4-21 | Database of design and construction GUIDELINES for the appropriate use of waste and recycled materials. | Completed in July 2000. Database published on CRP-CD-5. FHWA assumed responsibility for future updates. Contact: Edward T. Harrigan, 202/334-3232 |
| 4-23 | TEST METHODS for evaluating aggregates used in unbound pavement layers. | Completed in April 2000. Published as NCHRP Report 453. Contact: Amir N. Hanna, 202/334-1432 |
| 4-24 | Recommended modifications to AASHTO M-294 and Bridge Section 18 resin SPECIFICATIONS to include ASTM SP-NCTL requirements (plastic pipe). | Completed in August 1998. Published as NCHRP Report 429 and agency report available as NCHRP Web-Only Document 19. Contact: Crawford F. Jencks, 202/334-2379 |
| 4-30A | TEST METHODS for characterizing aggregate shape, texture, and angularity. | Completed in June 2005. Published as NCHRP Report 555. Contact: Amir N. Hanna, 202/334-1432 |

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| Project | Product | Status |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4-31 | TEST METHODS for evaluating aggregates reclaimed from hot-mix asphalt and portland cement concrete pavements, for use in unbound pavement layers. | Completed in December 2006. Published as NCHRP Report 598. Contact: Amir N. Hanna, 202/334-1432 |
| 4-32 | Recommended SPECIFICATIONS and CRITERIA for recycled HDPE and corrugated drainage pipe manufactured with blends of virgin and recycled HDPE and recommended TEST METHODS for evaluation and quality control of such HDPE pipe. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 4-34 | A LADAR SYSTEM capable of precise and accurate measurement of the aggregate characteristics and volumetric gradation. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 4-35 | Improved TEST METHODS for determining the specific gravity and absorption of coarse and fine aggregates. | Completion mid-2010. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-7 | QA/QC PLAN for the production and laydown of Superpave HMA. | Submitted in 1998 in the form of a draft standard practice. Updated version under review by Mix ETG for possible adoption by SCOM. Published as NCHRP Report 409 and available on CRP-CD-1. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-8 | Recommended SMA mixture design PROCEDURE and construction GUIDELINES. | Completed in June 1998. Adopted as AASHTO MP8. Published as NCHRP Report 425 and available on CRP-CD-1. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-9 | Recommended REVISIONS to AASHTO PP28, Superpave Volumetric Design for Hot-Mix Asphalt (HMA). | Completed in July 1998. Revisions adopted by SCOM. Published as NCHRP Research Results Digest 237 and available on CRP-CD-1. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-9(1) | Recommended REVISIONS to gyration levels in the Ndesign table in AASHTO TP4. | Completed June 2006. Results to FHWA Mix ETG and SCOM for review. Adopted by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-10 | Recommended PRACTICE for characterization of modified asphalt binders. | Completed in February 2001. Various test methods under consideration by the Binder ETG and SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-11 | Recommended SPECIFICATIONS and TEST METHODS for identifying and measuring HMA segregation during construction. | Completed in January 2000. Under consideration by SCOM task force. Published as NCHRP Report 441. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-12 | MANUAL, GUIDELINES, and revised TEST METHODS for use of reclaimed asphalt pavement in Superpave mix designs. | Completed in September 2000. Published as NCHRP Report 452, NCHRP Research Results Digest 253, and available on CRP-CD-8. Revisions to test methods adopted by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-13 | Recommended REVISIONS to AASHTO Test Method T283 to ensure compatibility with Superpave system. | Completed in August 1999. Published as NCHRP Report 444. Recommended revisions to T283 adopted by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-14 | REVISIONS to Superpave aggregate specifications. | Completed in July 2001. Revisions adopted by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-16 | METHOD for estimating rutting resistance of HMA from Superpave gyratory compaction properties. | Completed in March 2002. Reviewed by Mix ETG for possible transmittal to SCOM. No further action. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-17 | METHOD for estimating rutting resistance of HMA using the Asphalt Pavement Analyzer. | Completed in November 2003. Test method provisionally adopted by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |

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| 9-18 | QC/QA METHOD for estimating rutting resistance of HMA using a field shear test device. | Completed in late 2001. Published as NCHRP Research Results Digest 262. No further action. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-19 | Superpave 2.0 Mix Design SOFTWARE. | Available through AASHTO. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-19 | Simple performance TEST for Superpave volumetric mix design method. | Completed June 2006. Draft methods reviewed by FHWA Mix ETG and adopted by SCOM. Methods and specifications under review in NCHRP Project 9-33 for next-generation mix design method. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-20 | Software-based, performance-related SPECIFICATION for HMA and guide SPECIFICATION. | Completed in November 2000. Transferred to 9-22 for further evaluation. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-22 | Validated performance-related SPECIFICATION and SOFTWARE for HMA. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-25 | Recommended mix design CRITERIA for VMA, VFA, or calculated binder film thickness to ensure adequate HMA durability and resistance to permanent deformation and fatigue cracking. | Completed June 2006. Published as NCHRP Report 567. Relevant results will be incorporated through NCHRP Project 9-33 for next-generation mix design method. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-26 | PRECISION STATEMENTS for AASHTO Standard Methods of Test | Open-ended. Precision statements transmitted to SCOM for review and possible adoption as they are developed. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-27 | REVISIONS to AASHTO T166 to improve the precision and accuracy of determinations of bulk specific gravity of compacted HMA specimens. | Completed in May 2004. Published as NCHRP Report 531; agency report available as NCHRP Web-Only Document 68. Revisions provided to Mix/Aggregate ETG for review. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | AASHTO TP 79, Determining the Dynamic Modulus and Flow Number of Hot Mix Asphalt (HMA) Using the Asphalt Mixture Performance Tester (AMPT). | Active. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | Proposed STANDARD PRACTICE for preparation of cylindrical performance test specimens using the Superpave Gyratory Compactor. | Submitted to AASHTO Highway Subcommittee on Materials. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | Proposed standard TEST METHOD for determining the dynamic modulus and flow number for hot mix asphalt (HMA) using the simple performance test system. | Submitted to AASHTO Highway Subcommittee on Materials. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | Proposed STANDARD PRACTICE for developing dynamic modulus master curves for hot-mix asphalt using the simple performance test system. | Submitted to AASHTO Highway Subcommittee on Materials. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | Proposed STANDARD PRACTICE for developing dynamic modulus master curves for hot-mix asphalt. | Submitted to AASHTO Highway Subcommittee on Materials. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | AASHTO PP 61, Developing Dynamic Modulus Master Curves for Hot Mix Asphalt (HMA) Using the Asphalt Mixture Performance Tester. | Active. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | AASHTO PP 60, Preparation of Cylindrical Performance Test Specimens Using the Superpave Gyratory Compactor (SGC). | Active. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-29 | Equipment purchase SPECIFICATIONS, first article and production units of a simple performance tester for use in the Superpave mix design method. | Completion late 2009. Equipment specification provided to FHWA for pooled-fund purchase. Contact: Edward T. Harrigan, 202/334-3232 |

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| 9-31 | Recommend the range of DESIGN AIR VOID CONTENT required for adequate durability and resistance to permanent deformation and fatigue cracking of dense-graded HMA. | Completed June 2006. Published as NCHRP Report 567. Relevant results will be incorporated through NCHRP Project 9-33 for next-generation mix design method. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-33 | Updated mix design MANUAL for HMA incorporating simple performance tests and performance prediction models. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-36 | Recommended PROCEDURE for the short-term laboratory aging of asphalt binders usable in a purchase specification such as AASHTO M320 and equally applicable to neat and modified binders. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-38 | METHOD for estimating fatigue endurance limit of HMA for incorporation into mix and structure design. | Completion mid-2009. Results implemented in the M-E pavement design guide. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-39 | A test METHOD for estimating the mixing and compaction temperatures of asphalt binder in HMA production. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-40 | Field GUIDELINES and related test METHODS for optimizing tack coat performance in HMA placement. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-42 | Executive SUMMARY of the SHRP asphalt research and implementation efforts and their implications for determining the ultimate success or failure of similar large-scale product development programs. | Completion late 2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-43 | Mix design METHOD for warm mix asphalt (WMA). | Completion 2010. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-45 | TEST and SPECIFICATIONS for mineral filler in hot mix asphalt. | Completion 2010. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-46 | Mix design and analysis PROCEDURE for HMA containing high-RAP contents. | Completion 2010. Contact: Edward T. Harrigan, 202/334-3232 |
| 9-47 | PROTOCOL for laboratory evaluation of WMA technology performance in the form of a draft AASHTO recommended practice. | Contract pending. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-17 | ASTM 4867 TEST METHOD for effect of moisture on asphalt concrete paving mixtures. | Completed in November 1994. Published as NCHRP Report 373. Contact: Edward T. Harrigan, 202/334-3232 |
| 10-45 | TEST METHODS for evaluating and qualifying corrosion-inhibiting admixtures for structural concrete. | Completed in June 2000. Distributed to SCOM. Contact: Amir N. Hanna, 202/334-1432 |
| 10-46 | Recommended PRACTICES for corrosion evaluation of new and existing steel pile structures in nonmarine applications. | Completed in May 1997. Published as AASHTO Provisional Standard PP36-97. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-51 | Recommended performance-related SPECIFICATIONS for elastomeric bridge bearings. | Completed in June 2000. Published as NCHRP Report 449. Under consideration by SCOBS. Contact: Waseem Dekelbab, 202/334-1409 |
| 10-55 | Performance-related TESTS to characterize and evaluate fiber-reinforced polymer composites used as internal reinforcement for concrete bridge decks. | Completed in May 2003. Summarized in NCHRP Research Results Digest 282. Distributed to SCOM. Contact: Amir N. Hanna, 202/334-1432 |
| 12-31 | Revised fracture toughness CRITERIA for structural steel. | Adopted by SCOM in August 1995. Contact: Waseem Dekelbab, 202/334-1409 |
| 12-37 | TEST METHOD for evaluating cracking tendency of concrete used in bridge decks. | Completed in March 1995. Adopted by SCOM as an AASHTO provisional test method. Contact: Amir N. Hanna, 202/334-1432 |

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| 18-5 | Recommended MODIFICATIONS to the AASHTO Standard Specification for Portland Cement (M85). | Completed in April 2001. Summarized in NCHRP Research Results Digest 270. Contact: Amir N. Hanna, 202/334-1432 |
| 18-10 | Recommended PROCEDURES for evaluating air-entraining admixtures for highway concrete. | Completed in January 2006. Published as NCHRP Report 578. Contact: Amir N. Hanna, 202/334-1432 |
| 18-11 | Recommended IMPROVEMENTS to current specifications and test protocols. | Completed in September 2007. Published as NCHRP Report 607. Recommendation adopted by AASHTO. Contact: Amir N. Hanna, 202/334-1432 |
| 18-13 | SPECIFICATIONS AND PROTOCOLS for acceptance tests for fly ash used in highway concrete. | Completion mid 2010. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(65) | AASHTO STANDARDS for sampling, handling, and testing pavement materials based on information in SHRP manuals. | Completed in December 1995. Adopted by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-7(68) | RESOLUTION of conflict in polyethylene pipe specifications between AASHTO Standard M-294 and Section 18 of the AASHTO Bridge Specifications. | Completed in December 1996. Adopted by SCOBS and SCOM. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-7(82) | AASHTO PRODUCT EVALUATION LIST, Internet-based replacement for SPEL. | Transferred to AASHTO for operation in September 1999. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-7(93) | RECOMMENDATIONS for improved review and publication process for AASHTO. | Completed in April 1998. Final report used by AASHTO. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(131)A | WEBSITE for the Highway Subcommittee on Materials. | Completed in late 2002. Used by AASHTO. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(138) | GUIDELINES for the testing of net fence type rock-fall barriers. | Completed in July 2003. Contact: David A. Reynaud, 202/334-1695 |
| 20-7(164) | Recommended REVISIONS to AASHTO R9-97 to clarify, remove extraneous text, and introduce two significant additions--guidance on establishing individual and composite pay factors and setting appropriate risk levels for acceptance plans that use pay factors. | Completed in February 2004. Adopted by SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-7(175) | An online Qualified Product List (QPL) Project Management SERVICE that is integrated with the AASHTO Product Evaluation List (APEL). | Completed 2007. Product transferred to AASHTO. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-7(192) | TESTING PROTOCOLS for high density polyethylene plastic pipe | Completed in March 2006. Report accepted by the AASHTO NTPEP. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-7(198) | Standard PRACTICE for independent assurance programs for materials and workmanship. | Completed 2006. Practice adopted by AASHTO SCOM. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-7(235) | Testing PROTOCOLS for Surface Applied Sealers for Concrete. | Completed in March 2009. Provided to AASHTO. Contact: Amir N. Hanna, 202/334-1432 |
| 20-7(281) | Recommended STRATEGIC PLAN for the development and maintenance of AASHTO standards by AASHTO member departments. | Completed in October 2009. Contact: Amir N. Hanna, 202/334-1432 |
| 20-43 | CD-ROM version of the Green Book. | Completed in September 1998. Published in 2000 by AASHTO. Contact: B. Ray Derr, 202/334-3231 |
| 21-6 | Test METHODS for practical laboratory and field measurements of soil resistivity and pH. | Completion 2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 21-09 | Recommended construction SPECIFICATIONS for the application of intelligent compaction systems in soils and aggregate base materials. | Completion June 2009. Contact: David A. Reynaud, 202/334-1695 |

**NCHRP Products for AASHTO Committees
(Updated 4/28/2011)**

| Project | Product | Status |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24-11 | Test METHODS, design and analysis PROCEDURES, and construction SPECIFICATIONS for the use of geofoam as a super-lightweight fill in embankments and bridge approaches over soft ground. | Completed in August 2002. Published as NCHRP Report 529; agency report available as NCHRP Web-Only Document 65. Contact: David A. Reynaud, 202/334-1695 |
| 24-12(1) | Design CRITERIA and GUIDELINES for the use of controlled low-strength material in backfill and other applications. | Completed August 2006. To be published as an NCHRP report. Transmitted to SCOM for review. Contact: Edward T. Harrigan, 202/334-3232 |
| 24-13 | PRACTICE for measuring the condition and evaluating the remaining useful life of existing metal-tensioned systems and for estimating the design life of new systems. | Completed in March 2002. Adopted by SCOM as recommended practice. Contact: Edward T. Harrigan, 202/334-3232 |
| 24-23 | Design and construction inspection and quality control GUIDELINES, material and construction SPECIFICATIONS, and test METHODS for riprap at streams and riverbanks, bridge piers and abutments, and other locations requiring scour countermeasures. | Completed June 2006. Published as NCHRP Report 568. Contact: Crawford F. Jencks, 202/334-2379 |

Highway Subcommittee on Systems Operation and Management

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| 3-63 | BENEFITS of sharing information between public safety and transportation agencies in traffic incident management. | Completed in March 2004. Published as NCHRP Report 520. Contact: B. Ray Derr, 202/334-3231 |
| 3-68 | GUIDE to effective freeway performance measurement. | Completed September 2006. Results summarized in NCHRP Research Results Digest 312 and agency report available as NCHRP Web-Only Document 97. Contact: Andrew C. Lemer, 202/334-3972 |
| 3-77 | GUIDE to contracting intelligent transportation system projects. | Completed December 2006. Guide published as NCHRP Report 560 and agency report on guide development available as NCHRP Web-Only Document 85. An outreach campaign to encourage the guide's use has been initiated. Contact: Andrew C. Lemer, 202/334-3972 |
| 3-84 | GUIDE for multistate transportation operations programs. | Completion early 2008. Contact: B. Ray Derr, 202/334-3231 |
| 3-86 | GUIDE to planning for traffic and emergency transportation operations. | RFP under development. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(76) | GUIDANCE on telecommunications facilities in the right-of-way. | Completed in December 1996. Published by AASHTO in 1997 as Guidance on Sharing Freeway and Highway Rights-of-Way for Telecommunications. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(96) | GUIDE on acquiring ITS software. | Completed in June 1999. Published by AASHTO in 2000 as ITS Software: Effective Acquisition Practices. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(173) | PROCEEDINGS on effective methods of communicating impacts of incident management activities. | Completed in April 2004. Published as NCHRP Research Results Digest 289. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(181) | INFORMATION on multi-state transportation operations programs. | Completed in November 2004. Report provided to AASHTO. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(188) | WORKSHOP on mainstreaming operations in state DOTs. | Completed in January 2006. Report provided to AASHTO. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(215) | PLAN for statewide incident reporting. | Completion October 2006. Contact: B. Ray Derr, 202/334-3231 |

NCHRP Products for AASHTO Committees
(Updated 4/28/2011)

| Project | Product | Status |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 20-24(21) | CHARACTERISTICS of the 21st Century operations-oriented state DOT. | Completed in April 2005. To be published by AASHTO. Contact: B. Ray Derr, 202/334-3231 |
| 20-59(11) | GUIDE for CEOs of state DOTs and program managers on the development of a formal program for the improved management of traffic incidents, natural disasters, security events, and other emergencies on the highway system. | Completed in February 2005. Published as NCHRP Report 525, Vol. 6. Contact: S. A. Parker, 202/334-2554 |
| 20-59(18) [TCRP Proj. J-10C] | GUIDELINES for transportation emergency training drills and exercises. | Completed in October 2005. Published as NCHRP Report 525/TCRP Report 86, Vol. 9. Contact: S. A. Parker, 202/334-2554 |
| 20-59(19) | GUIDE to transportation's role in public health emergencies. | Completed in October 2005. Published as NCHRP Report 525, Vol. 10. Contact: S. A. Parker, 202/334-2554 |
| 20-59(21) [TCRP Proj. J-10F] | GUIDE to continuity of operations plans for transportation agencies. | Completed in October 2005. Published as NCHRP Report 525/TCRP Report 86, Vol. 8. Contact: S. A. Parker, 202/334-2554 |
| 20-67 [TCRP Proj. J-10G] | GUIDE to making transportation tunnels safe and secure. | Completed June 2006. Published as NCHRP Report 525/TCRP Report 86, Vol. 12. Contact: S. A. Parker, 202/334-2554 |
| 20-77 | FRAMEWORK for training operations personnel. | Proposals being requested. Contact: B. Ray Derr, 202/334-3231 |

Highway Subcommittee on Traffic Engineering

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| 3-41(2) | PROCEDURE for setting work zone speed limits. | Completed in March 1998. Under consideration for possible inclusion in MUTCD. Contact: B. Ray Derr, 202/334-3231 |
| 3-44 | GUIDELINES for improving traffic control devices to aid the older driver. | Completed in February 1998. Portions have been included in FHWA's Handbook for the Older Driver. Contact: Charles W. Niessner, 202/334-1431 |
| 3-50 | GUIDELINES for the design and placement of signs to minimize driver information overload. | Completed in November 1998. Contact: Charles W. Niessner, 202/334-1431 |
| 3-50(2) | MODEL and GUIDE for evaluating driver information loadings for freeways. | Completed in November 2002. Published as NCHRP Report 488. Contact: Charles W. Niessner, 202/334-1431 |
| 3-54(2) | GUIDELINES for uniform displays for protected/permissive left-turn control. | Completed in January 2003. Published as NCHRP Report 493. Under consideration for inclusion in MUTCD. Contact: B. Ray Derr, 202/334-3231 |
| 3-55 | YEAR 2000 EDITION of the Highway Capacity Manual. | Completed in 2000. Widespread use. Contact: B. Ray Derr, 202/334-3231 |
| 3-56 | GUIDELINES for incorporating traffic operations safety improvements in 3R projects under development. | Completed in November 2002. Published as NCHRP Report 486. Contact: Charles W. Niessner, 202/334-1431 |
| 3-57 | Recommended TRAFFIC CONTROL DEVICES for railroad-highway grade crossings. | Completed in December 2001. Published as NCHRP Report 470. Under consideration for inclusion in MUTCD. Contact: B. Ray Derr, 202/334-3231 |
| 3-58 | USER'S GUIDE for using capacity analysis and simulation in assessing traffic signal installations. | Completed in June 2001. Published as NCHRP Report 457. Contact: B. Ray Derr, 202/334-3231 |
| 3-59 | RECOMMENDATIONS on variable speed limits. | Completion late 2006. Contact: B. Ray Derr, 202/334-3231 |
| 3-64 | GUIDE for applying the Highway Capacity Manual. | Completed in December 2003. Available at http://www.hcmguide.com . Contact: B. Ray Derr, 202/334-3231 |

**NCHRP Products for AASHTO Committees
(Updated 4/28/2011)**

| Project | Product | Status |
|----------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 3-76A | SIGNAL WARRANT for intersections adjacent to highway-rail grade crossings. | Completed in January 2006. Being considered for inclusion in the MUTCD. Contact: B. Ray Derr, 202/334-3231 |
| 3-76B | DESIGNS for alternative low-cost active warning systems at railroad grade crossings. | Completion early 2007. Contact: B. Ray Derr, 202/334-3231 |
| 3-85 | GUIDANCE for the use of simulation and other models in highway capacity analysis. | Completion mid-2008. Contact: B. Ray Derr, 202/334-3231 |
| 5-14 | GUIDANCE for arrow panel selection, application, and maintenance. | Completed in December 1996. Contact: Charles W. Niessner, 202/334-1431 |
| 5-15 | Recommended REQUIREMENTS for intensity and chromaticity of traffic signals. | Completed in mid-2001. Report provided to ITE. Contact: B. Ray Derr, 202/334-3231 |
| 17-15 | GUIDE for improving safety on congested rural two-lane roads. | Completed in November 1999. Published as NCHRP Report 440. Contact: B. Ray Derr, 202/334-3231 |
| 17-16 | Recommended ACCIDENT WARRANT for traffic signals and model to estimate the safety impacts of signals. | Completed in January 2003. Published as NCHRP Report 491. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(111) | SUPPORT for AASHTO Task Force on Retroreflectivity Guides. | Completed in October 2000. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(116) | Recommendations on MUTCD REQUIREMENTS for sign retroreflectivity. | Completed in July 2000. Recommendations provided to AASHTO; included in AASHTO Resolution PR-14-00. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(155) | Signing STANDARDS for two-lane exit ramps with an option lane. | Completed in mid-2004. Report provided to NCUTCD. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(160) | Revised analysis METHODOLOGY for two-lane highways. | Completed in September 2003. Provided to TRB Highway Capacity and Quality of Service Committee. Contact: B. Ray Derr, 202/334-3231 |
| 20-7(222) | EVALUATION of flashing yellow arrow installations. | Completion October 2007. Contact: B. Ray Derr, 202/334-3231 |

National Transportation Product Evaluation Program Oversight Committee

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| 20-7(165) | National Transportation Products Evaluation Program (NTPEP) Model Deployment HANDBOOK. | Completed in June 2004. Contact: David A. Reynaud, 202/334-1695 |
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Special Committee on International Activity Coordination

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| 20-36 | Scan of improved PRACTICES for timely procurement and clearance of highway right-of-way. | Results disseminated by AASHTO ROW and Utilities subcommittee and implemented by AASHTO members. Contact: Amir N. Hanna, 202/334-1432 |
| 20-36 | Scan of PRACTICE for bridge scour and stream instability countermeasures. | Key results incorporated in 1999 into FHWA hydraulic engineering circulars and NHI training course. Contact: Amir N. Hanna, 202/334-1432 |

Standing Committee on Highway Traffic Safety

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| 3-93 | GUIDELINES for successful operation of automated speeding and redlight enforcement activity in the US. | Completion October 2009. Contact: David A. Reynaud, 202/334-1695 |
| 5-19 | GUIDELINES for roadway lighting based on safety benefits and costs. | Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 17-12 | CONCEPTUAL DESIGNS for improved safety information systems. | Completed in March 1998. Contact: Charles W. Niessner, 202/334-1431 |
| 17-18 | GUIDELINES and MODEL PROGRAMS for addressing highway safety problems and a WEBSITE to speed dissemination of materials. | Completed June 2009. 23 volumes published as NCHRP Report 500. Contact: Charles W. Niessner, 202/334-1431 |

**NCHRP Products for AASHTO Committees
(Updated 4/28/2011)**

| Project | Product | Status |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17-23 | MODELS and PROCEDURES to help determine the effects of raising speed limits on high-speed roads. | Completed February 2006. Agency report available as NCHRP Web-Only Document 90 and summarized in NCHRP Research Results Digest 303. Contact: Christopher J. Hedges, 202/334-1472 |
| 17-25 | CRASH REDUCTION FACTORS for traffic engineering operations and ITS improvements. | Completed February 2008. Interim results summarized in NCHRP Research Results Digest 299. Published as NCHRP Report 617. Contact: Charles W. Niessner, 202/334-1431 |
| 17-26 | MODEL for predicting the safety performance of urban and suburban arterials. | Completed March 2008. Draft Chapter 10 provided to 17-36 contractor. Final report available as NCHRP Web-Only Document 129. Contact: Charles W. Niessner, 202/334-1431 |
| 17-27 | Parts I and II of the Highway Safety MANUAL. | Completed May 2007. Parts I and II of HSM delivered to project 17-36 contractor. Contact: Charles W. Niessner, 202/334-1431 |
| 17-28 | GUIDELINES for the general or project-specific selection of pavement markings and markers on the basis of their safety impact and cost-effectiveness. | Completed June 2006. Summarized in NCHRP Research Results Digest 305 and Web-Only Document 92. Contact: Edward T. Harrigan, 202/334-3232 |
| 17-29 | MODEL for predicting the safety performance of multilane rural highways. | Completed February 2008. Draft Chapter 9 provided to 17-36 contractor. Final report available as NCHRP Web-Only Document 126. Contact: Charles W. Niessner, 202/334-1431 |
| 17-31 | HUMAN FACTORS GUIDELINES to assist safety and design engineers in developing projects. | Completed June 2008. Initial guidelines published as NCHRP Reports 600A and 600B. Contact: Charles W. Niessner, 202/334-1431 |
| 17-34 | MANUAL Parts IV and V of the Highway Safety Manual to assist safety and design engineers in the design, operation, and maintenance of the highway system. | Completed December 2006. Parts IV and V of Highway Safety Manual delivered to NCHRP Project 17-36 contractor. Contact: Charles W. Niessner, 202/334-1431 |
| 17-35 | ACCIDENT MODIFICATION FACTORS for safety improvements at signalized intersections. | Completed March 2011. Contact: Charles W. Niessner, 202/334-1431 |
| 17-36 | HIGHWAY SAFETY MANUAL | Completed February 2010. AASHTO publication. Contact: Charles W. Niessner, 202/334-1431 |
| 20-7(95) | ASSESSMENT of the ability of states to meet FHWA's crashworthiness requirements specified in NCHRP Report 350. | Completed in December 1998. Used by AASHTO in negotiation with FHWA. Contact: Charles W. Niessner, 202/334-1431 |

Standing Committee on Planning

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| 2-18(4) | StratBENCOST SOFTWARE for strategic analysis of transportation investments. | Completed in March 2000. User's Manual and software available from McTrans. Contact: Charles W. Niessner, 202/334-1431 |
| 2-23 | GUIDE for economic analysis of transportation projects. | Completed in August 2003. Adopted and published by AASHTO. Contact: Dianne S. Schwager, 202/334-2969 |
| 7-14 | GUIDELINES for cost-benefit analysis of investments in bicycle facilities. | Completed in August 2005. Published as NCHRP Report 552. Contact: Christopher J. Hedges, 202/334-1472 |
| 7-15 | GUIDANCE on cost-effective measures and planning procedures for travel time, delay, and reliability. | Completed December 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 7-16 | REVISIONS to the AASHTO Guidelines for Traffic Data Programs. | Completed March 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-29(2) | Travel estimation TECHNIQUES for urban planning; UPDATE of NCHRP Report 187. | Completed in January 1996. Published as NCHRP Report 365. Contact: B. Ray Derr, 202/334-3231 |

NCHRP Products for AASHTO Committees
(Updated 4/28/2011)

| Project | Product | Status |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 8-30 | GUIDEBOOK for forecasting freight demand and assessing impacts on state transportation facilities. | Completed in February 1996. Published as NCHRP Report 388. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-32(1) | COMPILATION of innovative multimodal planning practices currently in use. | Completed in June 1996. Published as NCHRP Report 404. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-32(2) | FRAMEWORK for performance-based multimodal transportation planning. | Completed in July 1996. Published as NCHRP Research Results Digest 226. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-32(2)A | GUIDANCE MANUAL for performance-based multimodal transportation planning. | Completed in April 1999. Published as NCHRP Report 446. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-32(5) | GUIDANCE MANUAL for managing transportation planning data. | Completed in December 1996. Published as NCHRP Report 401. Contact: Crawford F. Jencks, 202/334-2379 |
| 8-34 | Practitioner's GUIDEBOOK for effective design, management, and implementation of major investment studies. | Completed in February 1999. Published as NCHRP Report 435. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-35 | GUIDANCE for incorporating and integrating ITS improvements into the multimodal planning and programming processes at state and MPO levels. | Completed in May 2002. Publication decision pending. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (01) | Improved PROCEDURES for modeling parking cost and supply. | Completed in March 2000. Distributed to SCOP in July 2000. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (02) | GUIDELINES for incorporating system operations and management practices in transportation planning. | Completed in February 2003. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (03) | GUIDANCE for ensuring the long-term effectiveness and viability of transportation planning processes and programs. | Completed in July 2000. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (04) | GUIDELINES for employing expert panels within the transportation planning process. | Completed in April 2002. Report submitted to AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| 8-36 (05) | GUIDANCE for incorporating market research methods and techniques in the transportation planning process. | Completed in March 2003. Report submitted to AASHTO. Contact: Christopher J. Hedges, 202/334-1472 |
| 8-36 (06) | New and improved travel forecasting PROCEDURES. | Completed in July 2003. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (07) | METHODS to improve the decision-making tradeoff process. | Completed in November 2001. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (07(2)) | APPLICATION of methods to improve the decisionmaking process. | Completed in October 2004. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (11) | COMPENDIUM OF ENVIRONMENTAL JUSTICE METHODS that are being applied at regional and statewide transportation and environmental planning levels. | Completed in June 2002. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (12) A&B | ANALYSES of future factors affecting transportation and their implications for state DOTs. | Completed in May 2000. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (14) | GUIDELINES for effective consultation between state DOTs and local elected officials in transportation planning. | Completed in July 2002. Report sent to AASHTO for distribution. Contact: Christopher J. Hedges, 202/334-1472 |
| 8-36 (16) | ASSESSMENT of Proposed Planning and NEPA Regulations. | Completed in November 2000. Final report supported AASHTO position on regulations. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (18) | Current BEST PRACTICES for incorporating safety into the transportation planning process. | Completed in February 2003. Task 1 Report sent to AASHTO. Supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 8-36 (20) & 20-7(141) | POSSIBLE SOLUTIONS to conformity problems caused by mismatch in SIP and Transportation Plan timeframes. | Completed in November 2002. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (21) | BEST PRACTICES for adapting the transportation planning process to meet fast paced customer requirements. | Completed in August 2003. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (22) | DEMONSTRATING the Positive Impacts of Transportation Investments on Economic, Social, Environmental, Community, and Quality of Life Issues. | Completed in July 2002. Distributed to SCOP. Supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (23) | REVIEW of the feasibility of using alternative revenue sources to fund future state transportation needs. | Completed. Distributed to SCOP in July 2002. Supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (24) | Investment requirement SCENARIOS for use by AASHTO in assessing transportation needs and funding requirements. | Completed in April 2002. Supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (25) | RECOMMENDATIONS for improving the geographic clarity in reporting road system extent. | Completed in June 2002. Final report supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (26) | Bottom Line Report SUPPORT MATERIALS on surface transportation safety and investment levels that will be required in reauthorization. | Completed in May 2002. Final report supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (27) | REVIEW of Interstate System Interchange needs. | Completed in May 2002. Final report supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (28) | Current practice SURVEY of rural conformity planning. | Completed in November 2003. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (30) | WORKSHOP on issues in intermodal connectors. | Completed in September 2003. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (31) | SYNTHESIS of current issues in consideration of the elderly within the transportation planning process. | Completed in January 2004. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (32) | SYNTHESIS of effective practices in applying tools, techniques, and methods in rural transportation planning. | Completed in February 2004. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (33) | BEST PRACTICES in statewide freight planning. | Completed in October 2003. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (34) | Security considerations in transportation planning. | Completed in June 2004. Published as NCHRP Report 525, Vol. 3. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (35) | EVALUATION of state DOT planning practices and processes in rural transportation planning. | Completed in January 2004. Distributed to SCOP. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (37) | RETROSPECTIVE on the Conditions and Performance Report. | Completed in August 2004. Sent to AASHTO. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (38) | Supplemental EVALUATION in support of NCHRP Project 25-17. | Completed in January 2005. To be published with NCHRP Project 25-17 report. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (40) | National site VISITS on transportation and growth. | Completed in August 2005. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (41) | Non-response to personal travel surveys (SUPPORT for NCHRP Project 8-37). | Completed in May 2006. To be published with NCHRP Project 8-37 report. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (42) | EVALUATION of MPO redefinition and evolving roles. | Completion December 2006. Contact: Lori L. Sundstrom, 202/334-3034 |

NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 8-36 (43) | ASSESSMENT of return on investment on freight rail capacity improvement. | Completed in June 2005. Posted on SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (44) | CURRENT PRACTICE of multi-state MPOs: approaches, cases, and institutional arrangements. | Completed December 2006. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (45) | BEST PRACTICES in multi-state corridor planning. | Completed in November 2005. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (46) | ASSESSMENT of where data groups are organizationally located within state DOTs. | Completed in December 2005. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (47) | ASSESSMENT of effective organization of performance measurement. | Completed in March 2006. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (48) | GUIDANCE on improved linkage between systems planning and the NEPA process. | Completed in January 2006. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (49) | IDENTIFICATION of metropolitan-level transportation funding sources. | Completed in December 2005. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (50) | ASSESSMENT of the impacts of an aging population on systems planning and investment policies. | Completed June 2006. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (51) | INFORMATION DESIGN for effective decisionmaking and communication. | Completed July 2006. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (52) | EVALUATION of changes in travel behavior/demand associated with managed-lanes (e.g., HOV, HOT) facility expansion. | Completed June 2006. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (53) | PEER REVIEWS of best practices in state and metropolitan transportation issues. | Completed May 2006. Sent to SCOP website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (54) | RESOURCE PAPERS in support of the 2005 TRB Conference on the use of Census data for transportation planning. | Completed in August 2005. To be published in the Conference Proceedings series. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (55) | GUIDANCE on multi-party collaboration and potential for freight improvement. | Completed. Available online. Contact: Dianne S. Schwager, 202/334-2969 |
| 8-36 (56) | GUIDANCE on highway construction project coordination to minimize traffic impacts. | Completed August 2006. Sent to AASHTO website. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (57) | GUIDANCE on institutional needs in safety planning. | Completed November 2006. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (58) | BEST PRACTICES for state and MPO NHS and STP programming. | Completed February 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (59) | BEST PRACTICES in incorporating health concerns in state and metropolitan transportation plans. | Completed December 2006. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (60) | GUIDANCE on state DOT consideration of infrastructure development potential in planning. | Completed December 2006. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (61) | GUIDANCE on determining the monetary value per dollar of investment in different performance measure categories. | Completed December 2006. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (62) | Best practices METHODOLOGY for ROI for transportation programs and projects. | Completed June 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (63) | APPLICATIONS for North American Industrial Classification System for transportation. | Completed June 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (64) | Right-of-way METHODS and TOOLS to control cost escalation. | To be done as NCHRP 8-49. Completion September 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (65) | BEST PRACTICES for incorporation of Commodity Flow Survey Data into the planning process. | Completed July 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (66) | Quality of life INDICATORS to measure socio-cultural effects. | Completed November 2007. Contact: Lori L. Sundstrom, 202/334-3034 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 8-36 (67) | BEST PRACTICES for using programmatic investment strategies in STPs. | Completed August 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (68) | IMPLICATIONS of new 8-hour control strategy development on program effectiveness. | Completed November 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (69) | PEER REVIEW SESSION on Public-Private Partnerships and external staffing to resource agencies. | Completed December 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (70) | SCOPING STUDY for development of a national travel model. | In development. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (71) | Disclosure Avoidance Techniques to Improve ACS Data Availability. | Completion May 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (72) | Implementing Project Cost Estimation and Management Process Improvements. | Completion August 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (73) | Adding Resilience to the Freight System in Statewide and Metropolitan Transportation Plans. | Completion February 2009. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (74) | Customer Research Practices and Applications in Transportation. | Completion July 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (75) | Research Finders. | Completion May 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (76) | BEST PRACTICES in meeting SAFETEA-LU requirements in the statewide transportation planning process. | In development. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (77) | SYNTHESIS of transportation program responses to greenhouse gas (GHG) reduction initiatives and energy reduction programs. | See NCHRP 25-25 (45). Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (78) | GUIDEBOOK to assist small communities in implementing SAFETEA-LU requirements. | Completion April 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (79) | TOOLS for a Freight Data Exchange Network. | Completion April 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (80) | SYNTHESIS of state practices in developing linear referencing systems. | In development. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (81) | METHOD for merging American Community Survey and Longitudinal Employment Household Dynamics data. | Completion October 2009. Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (83) | CASE STUDIES of transportation planning partnerships to enhance National Parks and Gateway Communities. | In development. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (84) | BEST PRACTICES of asset management of environmental mitigation features. | See NCHRP 25-25 (51). Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (85) | Congestion Pricing and Investment REQUIREMENTS. | In development. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (86) | CASE STUDIES documenting innovative approaches to integrating land transportation and land use in corridors. | In development. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (87) | SCOP Strategic Planning | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (88) | Transportation Research Programs to Address Energy and Climate Change | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (89) | Evaluating and Communicating Model Results: Guidebook for Planners | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (90) | Best Practices in the Use of Microsimulation Models | Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (91) | Validation and Sensitivity Considerations for Statewide Models | Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (92) | Counting Motorcycles | Contact: Lori L. Sundstrom, 202/334-3034 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 8-36 (93) | Road Pricing Communication Practices | Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (94) | Integrated State and Local Government Policy Approaches to Transportation and Climate Change | Completed March 2010. Supported AASHTO reauthorization activities. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (95) | Virtual Conference on Transportation Planning Research Needs | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (96) | Selecting and Using Advanced Travel Demand Modeling Tools - A Peer Exchange | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (97A) | Towards Quantitative Safety Planning: Implementation of PLANSAFE | Completion May 2011. Contact: Charles W. Niessner, 202/334-1431 |
| 8-36 (97B) | Towards Quantitative Safety Planning: Implementation Support | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (98) | Improving Home-to-Work and Employment Data for Transportation Planning | Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (99) | Strategies for Improved Passenger and Freight Passenger Data | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (100) | Transportation Data Program Self Assessment Guide | Contact: Nanda Srinivasan, 202/334-1896 |
| 8-36 (101) | Understanding the Connection Between Transportation and the Economy | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (102) | Assessing Alternative Methods for Measuring Regional Mobility in Metropolitan Regions | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (103) | Mining American Recovery and Reinvestment Act Jobs Data for Opportunities to Improve Economic Impact and Performance Analysis of Transportation Investments | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (104) | Integrating Performance Measures into a Performance-Based Planning and Programming (PBPP) Process | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (105) | Support and Update of the Strategic Plan for the AASHTO Standing Committee on Planning | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (106) | Synthesis of Practices for Prioritizing Enhancement Projects and Non-Motorized Transportation Projects | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (107) | Synthesis of State DOT and MPO Planning and Analyses on Strategies to Reduce Greenhouse Gas Emissions | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (108) | Framework for Improving Travel Behavior Data for Environmental Vehicle Analyses | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-36 (109) | Non-Rail Infrastructure Upgrade and/or New Construction Due to Passenger Rail Implementation | Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-37 | Standardized PROCEDURES for personal travel surveys. | Completed January 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-42 | A GUIDEBOOK for assessing the merits of public investment in rail-freight solutions to relieve roadway congestion. | Published as NCHRP Report 586. Contact: Christopher J. Hedges, 202/334-1472 |
| 8-43 | METHODS for forecasting statewide freight movements and related performance measures. | Completed January 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-44(2) | PREDICTIVE MODEL for safety characteristics and countermeasures. | Completion April 2009. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-48 | GUIDEBOOK for using American Community Survey data for transportation planning. | Completed January 2008. Contact: Lori L. Sundstrom, 202/334-3034 |

**NCHRP Products for AASHTO Committees
(Updated 4/28/2011)**

| Project | Product | Status |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 8-49 | GUIDANCE on procedures for cost estimation and management for highway projects during planning, programming, and preconstruction. | Completion April 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-50 | GUIDANCE on factors that support the planning-programming linkage. | Completion December 2006. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-53 | FRAMEWORK for integrating freight into transportation planning and project selection processes. | Completed January 2007. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-54 | A BEST PRACTICE MANUAL for state DOTs on tort liability issues associated with the sharing of safety data. | Completed in July 2006. To be published as NCHRP Research Results Digest 306. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 8-57 | FORECASTING IMPACTS of pricing on travel and congestion. | Completion August 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-58 | GUIDEBOOK for statewide corridor planning. | Completion August 2008. Contact: Lori L. Sundstrom, 202/334-3034 |
| 8-59 | A GUIDE for predicting the cumulative transportation costs in newly developing areas associated with incremental and induced development over time. | In progress. Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 8-65 | GUIDEBOOK that provides practical strategies for communication, cooperation, and coordination between transportation agencies and tribal communities in order to facilitate successful transportation projects. | In progress. Completion Fall 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 15-32 | Recommended PRACTICE for quantifying the benefits of applying the principles of context sensitive solution in transportation planning, programming, project development, and operations. | Completion mid-2009. Contact: Edward T. Harrigan, 202/334-3232 |
| 19-5 | ASSESSING and MITIGATING future impacts to the Federal Highway Trust Fund such as alternative fuel consumption. | Completed in August 2003. Report sent to AASHTO. Contact: Lori L. Sundstrom, 202/334-3034 |
| 20-53 | GUIDELINES on using data on customer needs and expectations to guide transportation. | Completed in November 2002. Published as NCHRP Report 487. Contact: Christopher J. Hedges, 202/334-1472 |

Planning Subcommittee on Asset Management

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| 19-4 | CATALOGUE (printed and searchable electronic) on how AASHTO member departments are managing GASB 34 requirements. | Completed in December 2003. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-24(11) | Asset management GUIDE and research project recommendations. | Completed in November 2002. Adopted by AASHTO; major resource document for NHI Course 131106A. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-57 | Analytic TOOLS to improve decisionmaking processes for asset management. | Completed Spring 2005. Published as NCHRP Report 545. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-60 | FRAMEWORK within the context of asset management for selecting suitable performance measures and setting performance targets. | Completed in September 2005. Published as NCHRP Report 551. Contact: Crawford F. Jencks, 202/334-2379 |

Standing Committee on Public Transportation

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| 20-65 (01) | Research AGENDA and ROLES of SCOPT. | Completed in January 2005. Contact: Gwen Chisholm-Smith, 202/334-3246 |
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**NCHRP Products for AASHTO Committees
(Updated 4/28/2011)**

| Project | Product | Status |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20-65 (02) | TOOLBOX for promoting transit bus safety and security programs. | Completed in October 2005. Material housed on CUTR's "Transit Bus Safety Resource Guide" website at http://www.cutr.usf.edu/bussafety/safety_toolbox Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (03) | ANALYSIS of bus liability and catastrophic insurance availability. | Completed in December 2004. Published as NCHRP Research Results Digest 295. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (04) | ANALYSIS of impacts of aging population and changed demographics on transit. | Completed in December 2005. Publication pending. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (05) | STRATEGY to measure success of transit-oriented development. | Completed in December 2004. Published as NCHRP Research Results Digest 294. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (06) | Comparative REVIEW and ANALYSIS of state transit funding programs. | Completed in June 2006. Published as NCHRP Report 569. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (07) | EVALUATION of states' ability to have adequate staff resources to implement federal public transportation programs. | Completion Fall 2006. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (08)A | EVALUATION of Buy America issues associated with the State DOT procurement of paratransit vehicles. | Completion Winter 2006. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (09) | ANALYSIS of centralized versus decentralized state procurement of vehicles for the Federal Section 5310 program. | Completion Fall 2006. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (10) | HANDBOOK for implementing FMCSA regulations as they apply to FTA section 5310/5311 providers. | Completion Fall 2006. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (11) | IDENTIFY potential options for addressing current state issues with implementing FTA Section 5310 and 5311 programs. | Completion Fall 2006. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (12) | IDENTIFY and EVALUATE potential cost-allocation methods for commuter, intercity, and freight operations on shared-use rail systems and corridors | Completion Fall 2006. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (13) | IDENTIFY existing and best internal and external state planning, response, and recovery policies and practices pertaining to weather-related emergencies with an emphasis on state public transportation and state passenger rail division involvement in administering emergency operations. | Completion in Summer 2007. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (14) | SUMMARIZE existing practices by state DOTs on how they are initially attempting to satisfy the SAFETEA-LU required coordinated public transit-human services transportation planning requirements, and DEVELOP guidance that can be used for the development of future coordinated plans. | Completion Summer 2007. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (15) | SUMMARIZE research recently completed or currently underway that would be of particular interest to the transit divisions within state DOTs, and DEVELOP a research agenda of future research needs. | Completion Summer 2007. Contact: Gwen Chisholm-Smith, 202/334-3246 |
| 20-65 (16) | DOCUMENT each State's current eligibility requirements for the Section 5310 and 5311 programs. | Completion Summer 2007. Contact: Gwen Chisholm-Smith, 202/334-3246 |

NCHRP Products for AASHTO Committees
(Updated 4/28/2011)

| Project | Product | Status |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <u>Standing Committee on Performance Management</u> | | |
| 8-65 | GUIDEBOOK that provides practical strategies for communication, cooperation, and coordination between transportation agencies and tribal communities in order to facilitate successful transportation projects. | In progress. Completion Fall 2009. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-7(80) | AASHTO quality clearinghouse WEBSITE to enable state highway and transportation agencies and other organizations involved in transportation to share information about their continuous quality improvement activities. | Completed in August 1999. Turned over to SCOQ. Operated and maintained by AASHTO. Contact: Edward T. Harrigan, 202/334-3232 |
| 20-24(53) | Twenty-First Century Leadership and Management TECHNIQUES for State DOTs. | Sent to AASHTO for distribution. Contact: Christopher J. Hedges, 202/334-1472 |

Standing Committee on Rail Transportation

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| 20-29(2) | Computer SOFTWARE (TRANSDEC) and user aids for applying a PROCEDURE for analysis of multimodal transportation investments. | Completed in May 2001. User's Manual and software available from McTrans. Contact: Charles W. Niessner, 202/334-1431 |
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Research Advisory Committee

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| 20-7(74) | MANUAL on research methodologies. | Completed in June 1997. Distributed to RAC in September 1997. Incorporated into NCHRP Project 20-45. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-32(2) | TRANSPORTATION RESEARCH THESAURUS (TRT). The TRT will be used to revise the TRIS keyword index. | Completed in September 2000. Published as NCHRP Report 450. Contact: B. Ray Derr, 202/334-3231 |
| 20-38 | GUIDE for developing a state transportation research manual. | Completed in June 1997. Manual and diskette distributed to all states and available on the SCOR/RAC website at http://research.transportation.org . Contact: Crawford F. Jencks, 202/334-2379 |
| 20-38A | GUIDELINES for planning a peer exchange. | Completed in July 1998. Guidelines distributed by RAC in August 1998 and used by individual states in conducting peer exchanges. Contact: Christopher J. Hedges, 202/334-1472 |
| 20-39(2) | WEBSITE for pooled fund projects. | Completed in November 2002. In use. Contact: B. Ray Derr, 202/334-3231 |
| 20-45 | MANUAL and TRAINING COURSE on scientific approaches for transportation research. | Completed in November 2002. Available on CRP-CD-22 and on the SCOR/RAC website at http://research.transportation.org . NHI Course 123002A available. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-46 | GUIDE on a systems approach to evaluating innovations. | Completed in June 2000. Published as NCHRP Report 442. Contact: B. Ray Derr, 202/334-3231 |
| 20-63 | A TOOL BOX for measuring the performance of applied transportation research programs and projects and a web-based SYSTEM for reporting the accomplishments of individual state research activities and their aggregate value on a national level. | Completion July 2007. Contact: Crawford F. Jencks, 202/334-2379 |
| 20-71 | GUIDANCE for research experimental design. | Proposals being requested. Contact: B. Ray Derr, 202/334-3231 |
| 20-75 | STRATEGY and BUSINESS PLAN for Transportation Information Management. | Completion Summer 2009. Contact: Christopher J. Hedges, 202/334-1472 |

**NCHRP Products for AASHTO Committees
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| Project | Product | Status |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 20-78 | GUIDE to communicating the value of research. | Proposals being requested. Contact: B. Ray Derr, 202/334-3231 |
| <u>Task Force on SHRP Implementation (former)</u> | | |
| 20-7(101) | WEBSITE for communication of lead state team activities and dissemination of information on lead state technologies. | Completed in July 1999. Transferred to AASHTO for operation in August 1999. Contact: Edward T. Harrigan, 202/334-3232 |