TRB Snap Search: Performance Based Regulations

TRB's involvement in research on Performance Based Regulations from 2021-2022

The Transportation Research Board (TRB) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

All available Snap Searches can be accessed online here: http://www.trb.org/InformationServices/Snap.aspx

TRB Research

TRID – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view search results on TRB published research on Performance Based Regulations within the past year.

Specialty Report

- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

Recent Reports & Publications

- Airport Cooperative Research Program (ACRP)
  - Legal Research Digest 43 - Legal Considerations for Telecommunications at Airports

- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 20-113F - Topical White Papers for the TRB Forum on Automated Vehicles and Shared Mobility
  - Report 1010 - In-Service Performance Evaluation: Guidelines for the Assembly and Analysis of Data
  - Report 998 - Planning Freight-Efficient Land Uses: Methodology, Strategies, and Tools
  - Web-Only Document 332 - Multi-State In-Service Performance Evaluations of Roadside Safety Hardware

- Transit Cooperative Research Program (TCRP)
  - Synthesis 163 - Considering the Unbanked in Cashless Fare Payment at Point of Service for Bus/Demand-Response Services

- Transportation Research E-Circulars
  - E-Circular 281 - Advancing Transportation Equity: Conference Summary and Action Brief

Current & Upcoming Projects

- Current Projects
  - ACRP 01-44 - Airport Insurance Requirements
  - ACRP 09-21 - Asset Information Handover Guidelines: From Planning and Construction to O&M
  - ACRP 02-90 - Development of Airport Construction Emission Inventory Tool (ACEIT) Version 2.0
  - ACRP 02-93 - Guidebook for PFAS Management at Airports
  - ACRP 02-95 - Understanding Airport Air Quality and Public Health Studies Related to Airports: An Update to ACRP Report 135
  - ACRP 03-65 - ACRP Policy and Planning Product Updates
  - ACRP 10-32 - U.S. Airport Industry Adoption of Automated Ground Vehicle Systems

Updated on 11/17/2022
- ACRP 11-01/Topic 09-03 - Permitted Airport Involvement in Economic Development Efforts
- ACRP Synthesis 11-03/Topic S01-26 - The Landscape of the FBO Industry in 2022
- BTSCR B TS-10 - E-Scooter Safety: Issues and Solutions
- BTSCR B TS-19 - Moped and Motor Scooter (50 cc or less) Safety: Issues and Countermeasures
- NCHRP 03-135 - Wrong-Way Driving Solutions, Policy, and Guidance
- NCHRP 07-29 - Development of the 8th Edition of AASHTO’s A Policy on the Geometric Design of Highways and Streets (Green Book)
- NCHRP 08-119 - Data Integration, Sharing, and Management for Transportation Planning and Traffic Operations
- NCHRP 08-140 - Guide for Truck Parking Information Management Systems
- NCHRP 08-145 - Utilizing Cooperative Automated Transportation (CAT) Data to Enhance Freeway Operational Strategies
- NCHRP 08-162 - Guidance for Implementing Equitable Transportation Decision-making
- NCHRP 09-69 - Verifying Quantities of Materials Used in Asphalt Mixtures at Production Facilities
- NCHRP 10-104 - Evaluating Use of Unconventional Fly Ash Sources in Highway Concrete
- NCHRP 20-44(37) - Workshops on Performance Measures in Snow and Ice Control Operations
- NCHRP 20-102(19)B - Updated Research Roadmap for NCHRP 20-102, Impacts of Connected Vehicles and Automated Vehicles on State and Local Transportation Agencies
- NCHRP 22-40 - Update to AASHTO M 180-18 and Associated Highway Guardrail Specifications
- NCHRP 22-41 - Proposed Modification to AASHTO LRFD Bridge Design Specifications, Section 13—Railing
- NCHRP 22-53 - Delineation of Linear Roadside Hardware Systems and Roadside Obstacles
- NCHRP 23-13(05) - Regulatory Relief of Commercial Vehicle Weight Requirements for Emergency Transportation of Critical Commodities
- NCHRP 23-23 - Data Governance Design and Implementation - Links Between Governance Approaches and Performance Effects in DOTs
- NCHRP 22-53 - Delineation of Linear Roadside Hardware Systems and Roadside Obstacles
- NCHRP 25-25B - Research for the AASHTO Standing Committee on the Environment
- NCHRP IDEA 20-30/IDEA 233 - Development of an Innovative Bio-Mediated Self-Healing Concrete Technology
- NCHRP Synthesis 20-05/Topic 53-02 - Practices to Motivate Safe Behaviors with Highway Construction and Maintenance Crews
- NCHRP Synthesis 20-05/Topic 53-01 - Practices to Promote Equity in Transportation Funding
- NCHRP Synthesis 20-05/Topic 54-05 - Practices for Statewide and MPO Coordination
- NCHRP Synthesis 20-05/Topic 54-08 - Practices for Integrating Performance-Based Plans with Long-Range Transportation Plans and Statewide Transportation Investment Programs
- NCHRP Synthesis 20-05/Topic 54-21 - Practices to Address Climate Change in the Transportation Planning Process
- TCRP B-48 - The Provision of Alternative Services by Transit Agencies: The Intersection of Regulation and Program
- TCRP H-59 - Racial Equity, Black America and Public Transportation
- TCRP I-05/Topic 19-03 - Navigating the Complexities of Sensitive Security Information (SSI) and Protected Critical Infrastructure Information (PCI)
- TCRP Synthesis I-07/Topic SB-36 - Dynamic Optimization on ADA Paratransit Service
- TCRP Synthesis I-07/Topic SG-20 - Performance Metrics in Third Party Contracts for Bus Operations and Maintenance

- **Upcoming Projects**
  - ACRP 01-52 - Strategic Futuring of Airports and their Role in the U.S. Airport System
  - ACRP 02-97 - Update to the Guidelines, Tools, and Resources Related to ACRP Reports 11, 147, and 160
  - ACRP 02-97A - Update ACRP Report 43: Improving Environmental Performance at Small Airports
  - ACRP 02-101 - Environmental Stewardship and Compliance Training for Airport Employees
  - ACRP 07-21 - Understanding Opportunities of Deploying Private Wireless Network at Airports
  - ACRP 11-09/Topic 01 - Impact of New Corporate Environmental Standards Impact Airports
  - NCHRP 03-145 - National Traffic Sensor System Evaluation Program
  - NCHRP 08-130 - Best Practices in Coordination of Public Transit and Ride Sharing
  - NCHRP 08-136 - Guidance on Using Performance-Based Management Approaches for Maintenance
  - NCHRP 08-141 - A Guidebook for Local Truck Parking Regulations
  - NCHRP 08-143 - Guide to the Application of Spatial Segmentation on Travel Time Reliability Measures
  - NCHRP 08-167 - A Guide for Creating Effective Visualizations
  - NCHRP 08-168 - Analysis and Assessment of the National Performance Management Data
- **NCHRP 08-170** - Frameworks, Guidance, and Tools to Support Post-Implementation Evaluation of Transportation Projects
- **NCHRP 10-116** - Variability in Pavement Materials and Construction
- **NCHRP 10-121** - Guidelines for the Application of Ground Modification Methods for Highway Structures
- **NCHRP 17-109** - Crash Modification Factors for Automated Traffic Signal Performance Measures
- **NCHRP 17-117** - Safety Performance Functions for Horizontal Curve
- **NCHRP 17-118** - Understanding the Impacts of Operational Changes on Safety Performance
- **NCHRP 20-06/Topic 26-03** - Multistate Coordination and Harmonization for AV Legislation
- **NCHRP 20-123(08)** - Scoping Study to Update the AASHTO User and Non-User Benefit Analysis for Highways
- **NCHRP 23-32** - Development of the AASHTO Highway Asset Risk & Resilience Manual: Phase 1
- **NCHRP 22-32A** - Development of Methods to Evaluate Side Impacts – Phase II
- **NCHRP 22-58** - National Guidance for Defining Acceptable Roadside Hardware Field Performance through In-Service Performance Evaluations (ISPEs)
- **NCHRP 23-17** - Assessing and Measuring the Business Value of Knowledge Management
- **NCHRP 23-25** - Architecture for an Information System for Reporting and Sharing Truck Regulatory Requirements Data
- **NCHRP 23-26** - Measuring Impacts and Performance of State DOT Resilience Efforts
- **NCHRP 23-36/Topic 54-10** - State Customization of Highway Safety Manual Methods
- **TCRP Synthesis 1-07/Topic SB-37** - Transit Agency Goals and Non-Traditional Performance Indicators Focused on Equity
- **TFPE 05** - Evaluation of FHWA's Every Day Counts Innovation Integrating NEPA and Permitting

**Reports from the National Academies Press on Performance Based Regulations**
- **The National Imperative to Improve Nursing Home Quality: Honoring Our Commitment to Residents, Families, and Staff**
- **Frameworks for Protecting Workers and the Public from Inhalation Hazards**
- **Offshore Situation Room - Enhancing Resilience to Offshore Oil Disasters in the Gulf of Mexico**
- **Exploiting Advanced Manufacturing Capabilities: Topology Optimization in Design**
- **The Future of Electric Power in the United States**
- **Enhancing Federal Clean Energy Innovation**
- **Accelerating Decarbonization of the U.S. Energy System**
- **Assessment of Technologies for Improving Light-Duty Vehicle Fuel Economy—2025-2035**
- **Innovations in Pharmaceutical Manufacturing on the Horizon - Technical Challenges, Regulatory Issues, and Recommendations**

**Committees & Panels**

**Sign-up to be a committee "Friend"**

**TRB Standing Committees** – Search by transportation mode and committee topic
- **ABE00** - Transportation Policy
- **ACS20** - Safety Performance and Analysis
- **AEP10** - Transportation Planning Policy and Processes
- **APE15** - Transportation Planning Analysis and Application
- **AJE20** - Performance Management
- **AKD10** - Performance Effects of Geometric Design
- **AKC30** - Quality Assurance Management
- **AKD10** - Performance Effects of Geometric Design
- **SC005** - Planning and Policy Review

**Task Forces** - Search for task force under committee here

**Project Panels**
- **D08136** - Guidance on Using Performance-Based Management Approaches for Maintenance
- **D10121** - Performance-based Specification for the Application of Ground Modification Methods for Bridges, Retaining Structures, and Associated Geotechnical Features
- **SN5009** - Performance-Based Pavement Warranty Practices
- **SN5105** - Collaborative Practices for Performance-Based Asset Management Between State DOTs and MPOs
- **SN5408** - Practices for Integrating Performance-Based Plans with Long-Range Transportation Plans and Statewide Transportation Investment Programs
Councils
- A001C – Young Members Coordinating Council

Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

- **National Aviation System Planning Symposium**
  *May 15-18, 2023*
  *Irving, CA*

- **Innovations in Travel Analysis and Planning Conference**
  *June 4-6, 2023*
  *Indianapolis, IN*

- **Marine Transportation System Innovative Science and Technologies Toward Greater Sustainability**
  *June 19-22, 2023*
  *Washington, D.C.*

- **National Conference on Transportation Asset Management**
  *July 8-11, 2023*
  *Boston, MA*

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TRB’s Transportation Research Information Services (TRIS)

TRIS includes the TRB Library and the TRIS Databases (listed below) which are available free on TRB’s website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. **Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.**

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

- **Transportation Research International Documentation (TRID)** – [trid.trb.org](http://trid.trb.org) - The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – [trt.trb.org](http://trt.trb.org) - A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – [riptrb.org](http://riptrb.org) - Current or recently completed transportation research projects
- **Publications Index (PubsIndex) Database** – [pubsindex.trb.org](http://pubsindex.trb.org) - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

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