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 for 2024 and Beyond
- 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
- 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
- BTSCRP BTS-10 - E-Scooter Safety: Issues and Solutions
- BTSCRP BTS-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 17-117 - 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 Synthesis 20-05/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
- AIE20 - 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
  o  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

Upcoming Events – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

Past Events - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

TRB’s Transportation Research Information Services (TRIS)

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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 - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation
  • Transportation Research Thesaurus (TRT) – trt.trb.org – A tool to improve the indexing and retrieval of transportation information.
  • Research in Progress (RiP) Database – rip.trb.org - Current or recently completed transportation research projects
  • Publications Index (PubsIndex) Database – 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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