



Research Digest

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Research Digest

Item 1

The Impact of Airline Bankruptcies on Airports

TRANSPORTATION RESEARCH BOARD

ACRP Legal Research Digest 6 • 2009

This digest examines legal issues presented by the filing of airline bankruptcies that are relevant to airports, and explores how airport lawyers and courts have responded to those issues. The report highlights the basics of bankruptcy theory and law relevant to airport operating agreements with airlines, and identifies issues such as lease recharacterization and payment of stub period rent that particularly affect airports dealing with airlines in bankruptcy.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/acrp/acrp_lrd_006.pdf

Item 2

Deicing Planning Guidelines and Practices for Stormwater Management Systems

TRANSPORTATION RESEARCH BOARD

ACRP Report 14 • 2009

This report explores a wide array of practices designed to provide for the practical, cost-effective control of runoff from aircraft and airfield deicing and anti-icing operations. Detailed operational practices were published by TRB as a collection of fact sheets.

The fact sheets include source reduction techniques such as product selection and application and non-chemical deicing technologies. Fact sheets cover collection and containment practices including centralized deicing facilities, glycol collection vehicles, and deicer-laden snow management. Descriptions of treatment and recycling alternatives cover options from discharge to a publicly owned treatment plant to natural treatment systems and glycol recovery. System component fact sheets describe different storage options, diversion controls, and monitoring technologies. Each fact sheet describes the nature and operating principles of each practice; factors that should be taken into account when considering its applicability at a particular facility; and capital, operating, and maintenance costs.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/acrp/acrp_rpt_014.pdf

Item 3

Commercial Truck and Bus Safety Synthesis Program : A Status Report

TRANSPORTATION RESEARCH BOARD

CTBSSP Research Results Digest 7 • 2009

This is a staff digest of the progress and status of the Commercial Truck and Bus Safety Synthesis Program, which is administered by the Transportation Research Board. Individual studies for the program are managed by Christopher W. Jenks, Manager, Commercial Truck and Bus Safety Synthesis Program.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/ctbssp/ctbssp_rrd_7.pdf



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Item 4

Guidance for Implementation of the AASHTO Strategic Highway Safety Plan. Volume 23: A Guide for Reducing Speeding-Related Crashes

TRANSPORTATION RESEARCH BOARD

NCHRP Report 500 Vol. 23 • 2009

TRB's National Cooperative Highway Research Program (NCHRP) Report 500, Vol. 23: Guidance for Implementation of the AASHTO Strategic Highway Safety Plan: A Guide for Reducing Speeding-Related Crashes provides suggested guidance on strategies that can be employed to reduce crashes involving speeding.

In 1998, the American Association of State Highway and Transportation Officials (AASHTO) approved its Strategic Highway Safety Plan, which was developed by the AASHTO Standing Committee for Highway Traffic Safety with the assistance of the Federal Highway Administration, the National Highway Traffic Safety Administration, and the Transportation Research Board Committee on Transportation Safety Management. The plan includes strategies in 22 key emphasis areas that affect highway safety. The plan's goal is to reduce the annual number of highway deaths by 5,000 to 7,000. Each of the 22 emphasis areas includes strategies and an outline of what is needed to implement each strategy.

Over the last few years the National Cooperative Highway Research Program (NCHRP) has developed a series of guides, all of which are now available, to assist state and local agencies in reducing injuries and fatalities in targeted areas. The guides correspond to the emphasis areas outlined in the AASHTO Strategic Highway Safety Plan. Each guide includes a brief introduction, a general description of the problem, the strategies/countermeasures to address the problem, and a model implementation process.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_500v23.pdf

Item 5

Communication Matters: Communicating the Value of Transportation Research

TRANSPORTATION RESEARCH BOARD

NCHRP Report 610 • 2009

This report explores integrating communications throughout the research process and introduces new ways to think about communicating the value of research. The report examines the signs of good communications practices, the communication process, planning and evaluating communications efforts, communicating for specific audiences, and case studies on good communication practices within and outside of the transportation community.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_610.pdf



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Item 6

Impact of Shoulder Width and Median Width on Safety

TRANSPORTATION RESEARCH BOARD

NCHRP Report 633 • 2009

This report explores crash prediction models and accident modification factors for shoulder width and median width on rural four-lane roads.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_633.pdf

Item 7

Tools to Aid State DOTs in Responding to Workforce Challenges

TRANSPORTATION RESEARCH BOARD

NCHRP Report 636 • 2009

This report examines tools that officials of state departments of transportation (DOTs) can use in recruitment, development, and retention of a productive and effective workforce.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_636.pdf

Item 8

Guidelines for Dowel Alignment in Concrete Pavements

TRANSPORTATION RESEARCH BOARD

NCHRP Report 637 • 2009

This report examines the effects of dowel misalignment on concrete pavement performance, and highlights measures for reducing misalignment and its adverse effect.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_637.pdf

Item 9

Guidelines for Guardrail Implementation

TRANSPORTATION RESEARCH BOARD

NCHRP Report 638 • 2009

This report explores guidance on selecting the appropriate barrier performance level for the installation of longitudinal barriers.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_638.pdf



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Item 10

Guide for Pavement Friction: Background and Research

TRANSPORTATION RESEARCH BOARD

NCHRP Research Results Digest 321 • 2009

This digest summarizes the findings of the research conducted under NCHRP Project 1-43 to develop a guide that addresses frictional characteristics and performance of pavement surfaces and considers related tire-pavement noise and other relevant issues. The research was concerned with highway pavements constructed with asphalt and concrete surfaces and did not deal with roads with unpaved surfaces or non-highway pavements.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rrd_332.pdf

Item 11

Preparing Coordinated Transportation Plans: A Guidebook for State Departments of Transportation

TRANSPORTATION RESEARCH BOARD

NCHRP Research Results Digest 331 • 2009

This digest explores existing coordinated planning processes within state departments of transportation (DOTs) that meet the Federal Transit Administration's (FTA's) requirements. The report also examines aspects of those processes that will be useful to other state DOTs and their planning partners as they develop or revise their own planning processes.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rrd_331.pdf

Item 12

Benefit/Cost Analysis of Converting a Lane for Bus Rapid Transit

TRANSPORTATION RESEARCH BOARD

NCHRP Research Results Digest 336 • 2009

This digest examines issues, potential solutions, and outstanding questions related to converting a roadway lane to bus rapid transit use.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rrd_336.pdf



Research Digest

Item 13

Design Flexibility Considerations for Built Urban Environments

TRANSPORTATION RESEARCH BOARD

NCHRP Research Results Digest 337 • 2009

This digest explores issues related to the use of roadway design exceptions or variances. The report also examines processes designed to help manage the use of exceptions or variances, and highlights potential means to provide a timely procedure for addressing design exceptions or variances.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rrd_337.pdf

Item 14

Pre-Overlay Treatment of Existing Pavements

TRANSPORTATION RESEARCH BOARD

NCHRP Synthesis 388 • 2009

This synthesis explores current pre-overlay treatment practices of state departments of transportation for both hot-mix asphalt and portland cement concrete pavement structures. The report is designed to help pavement management and pavement design groups in their selection of pre-overlay treatments.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_388.pdf

Item 15

Performance-Based Contracting for Maintenance

TRANSPORTATION RESEARCH BOARD

NCHRP Synthesis 389 • 2009

This synthesis explores experience with performance-based maintenance contracting in places where it has been adopted, including such issues as whether it has the potential to reduce costs and improve maintenance levels of service.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_389.pdf



Research Digest

Item 16

Reducing Litter on Roadsides

TRANSPORTATION RESEARCH BOARD

NCHRP Synthesis 394 • 2009

This synthesis explores the state of the practice in reducing roadside litter as it involves state departments of transportation (DOTs). The report provides information concerning the prevention and removal of roadside litter, unfulfilled needs, knowledge gaps, and underperforming activities. It covers enforcement, education, awareness, and engineering methods for both litter prevention and collection.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_394.pdf

Item 17

Debt Finance Practices for Surface Transportation

TRANSPORTATION RESEARCH BOARD

NCHRP Synthesis 395 • 2009

This synthesis examines basic principles of debt issuance for public agencies. The report explores issues that may be useful in assisting in decisions on when and how to best use debt financing techniques to fund investments in transportation infrastructure.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_395.pdf

Item 18

Real-Time Traveler Information Systems

TRANSPORTATION RESEARCH BOARD

NCHRP Synthesis 399 • 2009

This synthesis explores the needs and expectations of travelers, the current status of a variety of traveler information systems in the United States, available and emerging data sources, and business models for sustaining traveler information.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_399.pdf



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Item 19

First Amendment Implications for Transit Facilities; Speech, Advertising, and Loitering

TRANSPORTATION RESEARCH BOARD

TCRP Legal Research Digest 29 • 2009

This digest provides an analytical legal synthesis of available regulations, statutes, policies, and case decisions pertaining to permissible and impermissible restrictions on speech and expressive behavior at transit facilities and aboard transit vehicles; a clear discussion pertaining to sidewalks and transit facilities as public fora; attempts to regulate advertising on public property; and a discussion of the enforcement of anti-loitering and anti-panhandling regulations on or near transit facilities.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_lrd_29.pdf

Item 20

Implementing the Results of the Second Strategic Highway Research Program

NATIONAL RESEARCH COUNCIL. TRANSPORTATION RESEARCH BOARD (TRB)

TRB Special Report 296 • 2009

TRB Special Report 296, Implementing the Results of the Second Strategic Highway Research Program (SHRP 2): Saving Lives, Reducing Congestion, Improving Quality of Life explores promising results expected from the SHRP 2 research and provides recommendations on how they could be most effectively implemented. The committee that developed the report believes that the widespread implementation of products developed by SHRP 2 is critical in order to address the nation's roadway safety, renewal, reliability, and capacity issues.

Full-text PDF of this report is available for free download from
<http://onlinepubs.trb.org/Onlinepubs/sr/sr296.pdf>