
Environmental Impacts Of Airport Operations Maintenance

The Federal Aviation Administration Five-year Environmental Plan, 1976-1980

Stapleton International Airport, Denver

Metropolitan Washington Airport Policy

Airport Research Needs

Halls Crossing Airport Facility Replacement, San Juan County

Memphis International Airport

Airports and the Environment

JFK International Airport Light Rail System

Logan Airside Improvements Planning Project

Airports and the Environment

Clarion County Airport, New Airport

The National Airport System Plan (NASP)

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ELLISON JAIDA

The Federal Aviation Administration Five-
year Environmental Plan, 1976-1980
DIANE Publishing

This collection of papers on the environmental issues likely to affect airport operations covers the social responsibilities of airports, the goal of sustainability, and the need for a cost-effective management programme for continuous environmental improv
Stapleton International Airport,

Denver DIANE Publishing

Each new generation of commercial aircraft produces less noise and fewer emissions per passenger-kilometer (or ton-kilometer of cargo) than the previous generation. However, the demand for air transportation services grows so quickly that total aircraft noise and emissions

continue to increase. Meanwhile, federal, state, and local noise and air quality standards in the United States and overseas have become more stringent. It is becoming more difficult to reconcile public demand for inexpensive, easily accessible air transportation services with concurrent desires to reduce noise, improve local air quality, and protect the global environment against climate change and depletion of stratospheric ozone. This situation calls for federal leadership and strong action from industry and government. U.S. government, industry, and universities conduct research and develop technology that could help reduce aircraft noise and emissions-but only if the results are used to improve operational systems or standards. For example, the (now terminated) Advanced Subsonic Technology Program of the National Aeronautics and Space Administration (NASA) generally brought new technology only to the point where a system, subsystem model, or prototype was demonstrated or could be validated in a relevant environment. Completing the maturation process-by fielding affordable,

proven, commercially available systems for installation on new or modified aircraft-was left to industry and generally took place only if industry had an economic or regulatory incentive to make the necessary investment. In response to this situation, the Federal Aviation Administration, NASA, and the Environmental Protection Agency, asked the Aeronautics and Space Engineering Board of the National Research Council to recommend research strategies and approaches that would further efforts to mitigate the environmental effects (i.e., noise and emissions) of aviation. The statement of task required the Committee on Aeronautics Research and Technology for Environmental Compatibility to assess whether existing research policies and programs are likely to foster the technological improvements needed to ensure that environmental constraints do not become a significant barrier to growth of the aviation sector.

Metropolitan Washington Airport Policy

National Academies Press

Reviews the range of risks to airports from projected climate change and the emerging approaches for handling them,

based on surveys of airports in the U.S., Toronto, and the U.K..

Airport Research Needs Transportation Research Board

"Research sponsored by the Federal Aviation Administration."

Halls Crossing Airport Facility Replacement, San Juan County

Transportation Research Board

Reviews: (1) the key concerns and challenges associated with airports' current operations and future growth -- particularly concerns about aircraft noise, water quality, and air pollutant emissions - - and the actions being taken by the nation's busiest airports to balance environmental concerns with such operations and growth; and (2) the actions taken by the FAA and other Federal agencies to address environmental concerns associated with airports' current operations and future growth. Contains recomb. to the DoT and the EPA to further assist airports as they attempt to balance their operations and growth with the impact of their activities on the environment. Charts, tables, and photos.

Memphis International Airport DIANE Publishing

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Airports and the Environment
Transportation Research Board

"The objective of this research is to develop a process to evaluate sustainability practices as they relate to the impacts on day-to-day airport operations and maintenance. The elements of the evaluation process should include, at a minimum, the short- and long-term implications of maintaining the sustainability practice, budgetary implications, staffing issues, appropriate metrics, environmental impacts, and a tool for conducting a cost-benefit analysis."-- Project description.

JFK International Airport Light Rail System
DIANE Publishing

Today's airports are at times unable to handle the air traffic demand. The busiest airports are already saturated, and there are political and environmental difficulties associated with any further airport expansion. In view of the anticipated growth in air traffic demand, there is a clear need for economically beneficial capacity improvements in an environmentally responsible manner. However, the required capacity growth cannot be achieved by relying on existing technologies, policies and procedures. To provide solutions for environmentally

induced capacity bottlenecks, the authors' research is aimed at the development of a new integrated concept for managing the environmental impact of flight operations into and out of airports. The set of fully integrated noise management tools that the authors envision includes interrelated tools at the strategic level (annual/seasonal noise allocation planning), the tactical-/operational level (sequencing and scheduling of flights and separation assurance) and the trajectory level (selection of noise-optimised routes and flight profiles). The proposed integrated environmental management tool provides decision support to air traffic controllers to enable traffic management on the basis of throughput efficiency and safety in concert with noise exposure and emission considerations. The objective of this book is to outline the envisaged integrated environmental management concept, and to summarise our research efforts related to the main enabling capabilities (tools) that underlie this concept.

[Logan Airside Improvements Planning Project](#) Thomas Telford Publishing
" TRB's Airport Cooperative Research

Program (ACRP) Synthesis 44: Environmental Management System Development Process provides background on the framework of an environmental management system (EMS), explores similarities and differences of the various approaches to an EMS, explains the EMS development process, and highlights lessons learned by airports that have developed an EMS. " -- Publisher's description.

Airports and the Environment Nova Science Publishers

Balancing the capacity enhancing needs of the national airspace system with the need to protect the environment can be challenging. The FAA estimates that the annual number of passengers travelling by air in the United States will grow from 750 million in 2012 to over 1 billion by 2023. It also forecasts a corresponding 20 percent increase in the number of flights, which could add to existing flight delays and air traffic congestion. Even while the aviation system has grown and continues to grow, airports have sought to limit the environmental impacts generated by their construction and operations - such as noise, water, air, and waste pollution - in

part, to meet applicable legal requirements. However, airports' environmental impacts have been a source of friction with neighbouring communities. This book addresses the actions that airports have taken to reduce the environmental impacts of airport operations and development; and the strategies they can adopt to mitigate delays in implementing capital projects and operational changes.

Clarion County Airport, New Airport Transportation Research Board

The FAA estimates that the number of flights in the U.S. will increase 20% by 2024. It also has identified numerous airports that will need to expand to handle more flights. However, increasing airport capacity and operations poses potentially significant impacts on the environment and quality of life for surrounding communities. This report addresses: (1) airports' actions to reduce their environmental impacts; (2) the extent airports believe environmental issues delay development or operational changes; and (3) the strategies airports can adopt to address environmental issues. The report surveyed the 150

busiest airports as measured by the number of operations. Illus. This is a print on demand edition of a hard to find report.

The National Airport System Plan (NASP) DIANE Publishing

Reviews the key environmental concerns & challenges associated with airports' current operations & future growth & the efforts of major airports & Fed. agencies to address those challenges. Provides a detailed analysis to the survey received from officials at each of the nation's 50 busiest commercial service airports. Noise, water, & air quality issues are the primary environmental concerns & challenges facing airports now & for the foreseeable future. Other issues were wetlands, endangered species, environmental justice, & historical preservation. Also provides insights into the Fed. effort to help airports address their impact on the environ. Charts & tables.

Guidance Notebooks for the Environmental Assessment of Airport Development Projects: Users' guide

Urges the US Congress to establish a national airport cooperative research program. The committee that produced the report called such a program essential

to ensuring airport security, efficiency, safety, and environmental compatibility.

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