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AC 150/5000-4

DATE 10/12/79

Current 6/10/83

ADVISORY CIRCULAR

ANNOUNCEMENT OF AVAILABILITY AIRPORT RESEARCH AND TECHNICAL REPORTS



DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration
Washington, D.C.

DATE 10/12/79

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ANNOUNCEMENT OF AVAILABILITY

Subject: AIRPORT RESEARCH AND TECHNICAL REPORTS

1. PURPOSE. The purpose of this advisory circular is to alert the public to the availability of published research and technical reports sponsored by the Federal Aviation Administration (FAA) on a variety of subjects involving airport topics.

2. BACKGROUND. The Federal Aviation Act of 1958 empowers the Secretary of Transportation to undertake studies and research and development projects to meet the needs for safe and efficient navigation and traffic control of all civil aviation. The Systems Research and Development Service (SRDS) of the FAA is the primary office responsible for aviation research and development (R&D). Each year, as a part of this program, SRDS conducts research involving many topics concerned with airport matters, including design concepts and configurations, construction standards, and safety of operations. The results of these research efforts are published in reports that are available to the public.

3. ORDERING INFORMATION. Appendix 3 contains ordering information for purchasing technical reports and National Technical Information Service (NTIS) Searches. Price schedules contained in appendix 3 are current as of the date of this advisory circular and are subject to change. When available, use the latest NTIS price and ordering information.

William V. Vitale
WILLIAM V. VITALE

Acting Director, Office of Airport Standards

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1. GOVERNMENT REPORTS -- ANNOUNCEMENTS AND INDEX. Summaries of technical studies and research reports are published in biweekly volumes with indexes. Coverage is comprehensive--about 60,000 new summaries annually--and is indexed by subject, personal and corporate author, Government contract, and report/accession numbers. These summary documents are designed for libraries and technical information specialists and generally can be found in up-to-date technical libraries.

2. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). The NTIS of the U.S. Department of Commerce is the central source for the public sale of Government-sponsored research, development, and technical reports and other analyses prepared by Federal agencies, their contractors, and grantees. It is also the central source for federally generated machine processable data files.

3. NTIS SEARCHES. NTIS Searches are fully annotated bibliographies (with abstracts) that are prepared by information specialists from the NTIS on-line bibliographic retrieval system comprising 600,000 reports. NTIS Searches are of two kinds: Published Searches and On-Line Searches. Published Searches are prepared in anticipation of users' needs. On-Line Searches are prepared on a customized basis to satisfy a very specific user information need. Appendix 2 contains a listing of selected available Published Searches involving airport topics. A complete listing of Published Searches may be obtained from NTIS or may be found in the back of Published Search documents. When available, current NTIS listings should be consulted in lieu of Appendix 2.

4. LISTING OF AIRPORT TECHNICAL REPORTS. Appendix 1 contains a listing of selected technical reports published since 1970 on a variety of subjects involving airport matters. Copies of reports contained in this listing are available in paper copy or microfiche and can be purchased by ordering from the National Technical Information Service (NTIS), U.S. Department of Commerce. This listing has been developed for quick reference purposes only. It is revised on an infrequent basis and is not all-inclusive. When available, bibliographic Published Search documents compiled and sold by NTIS should be consulted. It should be recognized that the procedures, materials, design techniques, and recommendations contained in these reports have not necessarily been adopted or endorsed by the FAA. If research results indicate that a product or technique will provide an acceptable level of safety and will satisfy other considerations including economy, durability, and workmanship, it may be approved by the FAA for use on an individual airport project on a pilot basis or may be adopted as policy and/or as a national standard.

APPENDIX 1. LISTING OF SELECTED
FAA AIRPORT TECHNICAL REPORTS (1970-78)

This appendix contains a listing of selected FAA technical reports by category that are available and can be ordered through the National Technical Information Service (NTIS). Below is a sample listing from this appendix with footnotes noting what each portion represents.

FAA-RD-75-207 1/

State-of-the-Art in Predicting Pavement Reliability
from Input Variability 2/

AD-A018 904 3/ 76-04 4/ 13B 5/ PCA05/MFA01 6/

1/ FAA report number

2/ Report title

3/ NTIS ordering number

4/ Volume number of the Government Reports--Announcements and Index
containing the report

5/ NTIS subject category

6/ Schedule price code (PC-paper copy, MF-microfiche)

AIRPORT PLANNING, CAPACITY, AND DESIGN CONCEPTS.

FAA-RD-70-25
Simulation Study of Two Sites for
a Third Chicago Metropolitan
Airport
AD-708 635 70-17 1E PCA06/MFA01

FAA-RD-70-63
Graphic Simulation Study of Two
Sites for a Second Major Airport
in the Atlanta Area
AD-712 713 70-23 17G PCA04/MFA01

FAA-RD-70-67
Technical Feasibility of Floating
Interim Manhattan STOLport
AD-715 223 71-02 1E PCA05/MFA01

FAA-RD-71-9
A Simulation Model for Estimating
Airport Terminal Area Throughputs
and Delays
AD-745 513 72-17 1E PCA1Q/MFA01

FAA-RD-71-19
Extension of a Capacity Concept to
Dual-Use Runways and Multi-Runway
Configurations
AD-744 481 72-16 17G PCA06/MFA01

FAA-RD-71-55
Analytical Tools for the Study of
Airport Congestion
AD-730 789 71-22 1E PCA04/MFA01

FAA-RD-72-6
New York Offshore Airport
Feasibility Study
AD-742 966 72-14 1E PCA08/MFA01

FAA-RD-72-140
Arresting Gear Tests for Elevated
Short Takeoff and Landing Ports
(STOL)
AD-754 268 73-05 1E PCA02/MFA01

FAA-EM-73-5
Models for Runway Capacity Analysis
AD-760 637 73-14 1E PCA07/MFA01

FAA-EM-73-9
Reduction of Parallel Runway
Requirements
AD-764 668 73-19 17G PCA04/MFA01

FAA-RD-73-11-1
Procedures for Determination of
Airport Capacity
AD-763 593 73-17 17G PCA09/MFA01

FAA-RD-73-11-2
Procedures for Determination of
Airport Capacity - Appendices
AD-763 560 73-17 17G PCA13/MFA01

FAA-RD-73-15
Elevated STOLport Test Facility
Conceptual Development and Cost
Study
AD-763 595 73-17 1E PCA04/MFA01

FAA-RD-73-18
Statistical Methods for Measuring
Aeronautical Activity at Non-
Towered Airports
AD-758 238 73-10 1E PCA05/MFA01

FAA-RD-73-19
Instructional Manual for Measuring
Aeronautical Activity at Non-
Towered Airports
AD-758 570 73-11 1E PCA03/MFA01

FAA-RD-73-45
New York Offshore Airport
Feasibility Study
AD-758 586 73-11 1E PCA03/MFA01

FAA-RD-73-60
Dual Lane Runway Study
AD-762 462 73-15 1E PCA11/MFA01

FAA-RD-73-82
The Apron-Terminal Complex, Analysis
of Concepts for Evaluation of
Terminal Buildings
AD-771 186 74-04 1E PCA08/MFA01

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AIRPORT PLANNING, CAPACITY, AND DESIGN CONCEPTS. (Con't)

FAA-RD-73-97
Analysis of Dual Lane Runways
AD-777 914 74-13 1E PCA04/MFA01

FAA-QS-74-1
The Chicago-Midway Airport Study,
Volume I
AD-A003 943 75-06 1B PCA08/MFA01

FAA-QS-74-1-VOL-2
The Chicago-Midway Airport Study,
Volume II, Methodology and
Supporting Data
AD-A005 642 75-08 1E PCA18/MFA01

FAA-EM-74-5-1
FAA Report on Airport Capacity,
Volume I, National Summary
AD-774 784 74-09 1E PCA05/MFA01

FAA-EM-74-5-2
FAA Report on Airport Capacity,
Volume II, Eight Airport Survey
AD-774 789 74-09 1E PCA13/MFA01

FAA-RD-74-80
Dual Lane Runway Study
AD-779 496 74-15 1E PCA02/MFA01

FAA-RD-74-124
Techniques for Determining Airport
Airside Capacity and Delay
AD-A032 475 1E PCA11/MFA01

FAA-RD-74-133
Graphic Study of a Selected Site
for a Second Major Airport in the
Atlanta, Georgia, Terminal area
AD-783 751 74-21 17G PCA03/MFA01

FAA-RD-74-177
Development of a Non-Survey Method
Estimating Traffic at Non-Towered
Airports
AD-A002 397 75-04 1B PCA08/MFA01

FAA-RD-74-178
Estimating Operations at Non-
Towered Airports Using the Non-
Survey Method
AD-A001 404 75-02 1B PCA02/MFA01

FAA-RD-74-184-1
New York Offshore Airport
Feasibility Study, Volume I,
Introduction, Summary and
Conclusions
AD-A003 125 75-05 1E PCA08/MFA01

FAA-RD-74-184-2
New York Offshore Airport
Feasibility Study, Volume II, Air
Traffic Projections, Air Side
Operations, Site Selection, Ground
Access, Structural Concepts
AD-A003 126 75-05 1E PCA16/MFA01

FAA-RD-74-184-3
New York Offshore Airport
Feasibility Study, Volume III,
Airport Configuration, Ancillary
Functions, Airport Construction,
Environmental Protection, Financial
Analysis and Community Impact
AD-A003 798 75-06 1C PCA13/MFA01

FAA-ASP-75-5
The Airport Performance Model
AD-A025 262 76-15 1B PCA10/MFA01

FAA-ASP-75-6
The Airport Network Flow Simulator
AD-A025 740 76-16 15E PCA05/MFA01

FAA-RD-75-18
Feasibility of Real Time Simulation
of Airport/Airside Operations
AD-A006 996 75-10 1E PCA03/MFA01

FAA-RD-75-43
Study to Develop Regional and
Nation-Wide Estimates of General
Aviation (GA) Activity at Non-
Towered Airports
AD-A009 883 75-14 1B PCA06/MFA01

FAA-RD-75-66
Validation of Maximum Airport
Throughput Levels Estimated by the
DELCAP Simulation Model
AD-A011 485 75-17 17G PCA04/MFA01

AIRPORT PLANNING, CAPACITY, AND DESIGN CONCEPTS. (Con't)

FAA-RD-75-124-1

Forecast of Landside Airport Access
Traffic at 211 Major U.S. Airports
to 1990, Volume I, The Forecasts
AD-A025 401 76-16 1E PCA11/MFA01

FAA-RD-75-124-2

Forecast of Landside Airport Access
Traffic at 211 Major U.S. Airports
to 1990, Volume II, Detailed
Technical Description of Forecasting
Methods
AD-A025 246 76-15 1E PCA05/MFA01

FAA-RD-75-154

Validation of the DELCAP Airport
Simulation Model
AD-A021 127 76-08 1E PCA08/MFA01

FAA-RD-75-169

The Application of Simulation
Methods to Intra-Airport Landside
Problems
AD-A017 084 76-01 1E PCA05/MFA01

FAA-RD-75-191

The Apron and Terminal Building
Planning Report
AD-A018 120 76-02 1E PCA15/MFA01

FAA-AGL-76-1-VOL-1

O'Hare Delay Task Force Study,
Volume I, Executive Summary
AD-A030 237 76-24 1E PCA03/MFA01

FAA-AGL-76-1-VOL-2

O'Hare Delay Task Force Study,
Volume 2, Technical Report
AD-A030 172 76-24 1E PCA11/MFA01

FAA-AGL-76-1-VOL-3

O'Hare Delay Task Force Study,
Volume III, Technical Appendices
AD-A030 305 76-25 1E PCA09/MFA01

FAA-ASP-76-3

Selected Documents for Aviation
Planning in the Terminal Area
AD-A028 309 76-21 1E PCA04/MFA01

FAA-RD-76-128-BK-1

Model User's Manual for Airfield
Capacity and Delay Models, Book 1
AD-A033 685 1E PCA14/MFA01

FAA-RD-76-128-BK-2

Model Users' Manual for Airfield
Capacity and Delay Models, Book 2
AD-A036 354 1E PCA08/MFA01

FAA-RD-76-153

Technical Report on Airport Capacity
and Delay Studies
AD-A032 166 1E PCA09/MFA01

FAA-RD-76-162

Supporting Documentation for
Technical Report on Airport
Capacity and Delay Studies
AD-A032 526 1E PCA04/MFA01

FAA-EM-77-4

Airport Facility Queuing Model
Validation, Interim Report
AD-A041 258 1E PCA03/MFA01

FAA-EM-77-15

Bibliography: Airports
AD-A049 879 1E PCA08/MFA01

FAA-EM-77-17

Airport Improvement Task Force
Delay Study: Delay Model
Validation Plan
AD-A048 112 1E PCA04/MFA01

FAA-AVP-77-26

Report on Airport Capacity: Large
Hub Airports in the United States
AD-A041 435 1E PCA99/MFA01

FAA-RD-77-45

FAA Airport Capacity and Delay
Models
AD-A039 305 1E CPT05

RUNWAY PAVEMENT DESIGN, CONSTRUCTION, AND SURFACE CONDITIONS.

- FAA-RD-70-19
Aircraft Dynamic Wheel Load Effects
on Airport Pavements
AD-708 178 70-16 13B PCA19/MFA01
- FAA-RD-70-62
Development of a Basic Methodology
for Predicting Aircraft Stopping
Distance on a Wet Runway
AD-721 165 71-10 1B PCA06/MFA01
- FAA-RD-70-77
Airfield Pavement Requirements for
Multiple-Wheel Heavy Gear Loads
AD-721 530 71-11 1E PCA03/MFA01
- FAA-RD-71-2
Investigation of the Effects of
Runway Grooves on Wheel Spin-up and
Tire Degradation
AD-721 152 71-10 1C PCA03/MFA01
- FAA-RD-72-61
Runway Friction Data for 10 Civil
Airports as Measured with a Mu-Meter
and Diagonal Braked Vehicle
AD-751 001 72-24 1B PCA13/MFA01
- FAA-RD-72-106
Strengthening of Keyed Longitudinal
Construction Joints in Rigid
Pavements
AD-762 340 73-15 1E PCA07/MFA01
- FAA-RD-72-119
Construction of Fibrous Reinforced
Concrete Overlay Test Slabs, Tampa
International Airport, Florida
AD-760 638 73-14 1E PCA04/MFA01
- FAA-RD-73-169
Review of Soil Classification
Systems Applicable to Airport
Pavement Design
AD-783 190 74-20 8M PCA06/MFA01
- FAA-RD-73-197
Porous Friction Surface Course
AD-A009 012 75-13 1E PCA06/MFA01
- FAA-RD-73-198-1
Comparative Performance of
Structural Layers in Pavement
Systems, Volume I, Design,
Construction, and Behavior under
Traffic of Pavement Test Sections
AD-785 024 74-23 13B PCA12/MFA01
- FAA-RD-73-198-3
Comparative Performance of
Structural Layers in Pavement
Systems, Volume II, Analysis of
Test Section Data and Presentation
of Design and Construction Procedures
AD-A052 154 78-13 1E PCA05/MFA01
- FAA-RD-73-198-3
Comparative Performance of
Structural Layers in Pavement
Systems, Volume III, Design and
Construction of MESL
AD-A005 893 75-09 13B PCA03/MFA01
- FAA-RD-73-198-VOL-4
Comparative Performance of
Structural Layers in Pavement
Systems, Volume IV, Analysis of
Insulating Layers in Pavement Test
Sections
AD-A038 116 1E PCA07/MFA01
- FAA-RD-73-199
Statistical Quality Control
Procedures for Airport Pavement
Materials
AD-A017 594 76-01 13C PCA05/MFA01
- FAA-RD-73-205-1
Nondestructive Vibratory Testing of
Airport Pavements, Volume I,
Experimental Test Results and
Development of Evaluation
Methodology and Procedure
AD-A017 511 76-01 1E PCA10/MFA01

RUNWAY PAVEMENT DESIGN, CONSTRUCTION, AND SURFACE CONDITIONS. (Con't)

FAA-RD-73-205-2

Nondestructive Vibratory Testing of
Airport Pavements, Volume II:
Theoretical Study of the Dynamic
Stiffness and Its Application to the
Vibratory Nondestructive Method of
Testing Pavements
AD-A013 681 75-21 1E PCA06/MFA01

FAA-RD-73-206

Aircraft-Pavement Compatibility
Study
AD-A001 408 75-02 1E PCA11/MFA01

FAA-RD-74-12

Laboratory Method for Evaluating
Effect of Runway Grooving on
Aircraft Tires
AD-780 614 74-17 1C PCA08/MFA01

FAA-RD-74-24

Study of Runway Deformation
Contouring Using Holographic
Techniques
AD-A003 673 75-06 1E PCA07/MFA01

FAA-RD-74-30

Design of Civil Airfield Pavements
for Seasonal Frost and Permafrost
Conditions
AD-A006 284 75-09 1E PCA05/MFA01

FAA-RD-74-31

Steel Fibrous Concrete for Airport
Pavement Applications
AD-A003 123 75-05 13C PCA10/MFA01

FAA-RD-74-33-1

Continuously Reinforced Concrete
Airfield Pavement, Volume I, Tests
on Existing Pavements and Synthesis
of Design Methods
AD-780 511 74-16 1E PCA10/MFA01

FAA-RD-74-33-2

Continuously Reinforced Concrete
Airfield Pavement, Volume II, Design
Manual for Continuously Reinforced
Concrete Overlay Pavements
AD-779 953 74-16 1E PCA05/MFA01

FAA-RD-74-33-3

Continuously Reinforced Concrete
Airfield Pavement, Volume III,
Design Manual for Continuously
Reinforced Concrete Pavement
AD-780 512 74-16 1E PCA05/MFA01

FAA-RD-74-33-4

Continuously Reinforced Concrete
Airfield Pavement, Volume IV, Guide
Specification
AD-780 513 74-16 1E PCA03/MFA01

FAA-RD-74-34-1

Prestressed Concrete Pavements,
Volume I, Dulles Test Road
Instrumentation and Load Tests
AD-A000 456 75-01 13C PCA04/MFA01

FAA-RD-74-34-VOL-2

Prestressed Concrete Pavements,
Volume II, Design and Construction
Procedures for Civil Airports
AD-A003 477 75-06 1E PCA05/MFA01

FAA-RD-74-35

Criteria for Airport Pavements,
Final Summary Report
AD-A032 491 1E PCA07/MFA01

FAA-RD-74-36

Field Survey and Analysis of
Aircraft Distribution on Airport
Pavements
AD-A011 488 75-17 1E PCA13/MFA01

FAA-RD-74-37

Design and Construction of
Continuously Reinforced Concrete
Airport Pavements
AD-A049 970 1E PCA05/MFA01

FAA-RD-74-38

Field Performance of Porous Friction
Surface Courses
AD-A025 245 76-15 1E PCA04/MFA01

RUNWAY PAVEMENT DESIGN, CONSTRUCTION, AND SURFACE CONDITIONS. (Con't)

FAA-RD-74-39-1
Pavement Response to Aircraft
Dynamic Loads, Volume I,
Instrumentation Systems and Testing
Program
AD-A016 450 75-26 13B PCA05/MFA01

FAA-RD-74-39-2
Pavement Response to Aircraft
Dynamic Loads, Volume II,
Presentation and Analysis of Data
AD-A022 806 76-11 13B PCA10/MFA01

FAA-RD-74-39-2B
Pavement Response to Aircraft
Dynamic Loads, Volume II,
Presentation of Analysis of Data,
Appendix B: Data
AD-A018 337 76-03 13B PCA25/MFA01

FAA-RD-74-39-3
Pavement Response to Aircraft
Dynamic Loads, Volume III,
Compendium
AD-A028 378 76-21 1E PCA05/MFA01

FAA-RD-74-188
Evaluation of Inertial and Laser
Profilometer Systems
AD-A012 497 75-19 1E PCA03/MFA01

FAA-RD-74-199
Development of a Structural Design
Procedure for Flexible Airport
Pavements
AD-A019 205 76-05 1E PCA12/MFA01

FAA-RD-75-89
Shrinkage-Compensating Cement for
Airport Pavements
AD-A022 061 76-10 13C PCA02/MFA01

FAA-RD-75-103
Runway Surface Friction Changes Due
to High-Pressure Water-Jet Rubber
Removal, Charleston Airport,
Charleston, South Carolina
AD-A013 993 75-21 1E PCA02/MFA01

FAA-RD-75-110-1
Analysis of Airfield Runway
Roughness Criteria
AD-A035 625 1E PCA04/MFA01

FAA-RD-75-110-2
Methodology for Determining,
Isolating, and Correcting Runway
Roughness
AD-A044 328 1E PCA03/MFA01

FAA-RD-75-129
Runway Friction Changes Due to High-
Pressure Water-Jet Cleaning
Operations, Houston Intercontinental
Airport, Houston, Texas
AD-A014 641 75-23 1E PCA02/MFA01

FAA-RD-75-140
Theoretical Relationships Between
Moduli for Soil Layers Beneath
Concrete Pavements
AD-A028 159 76-21 13B PCA04/MFA01

FAA-FS-160-65-68-1
Measurement of Runway Friction
Characteristics on Wet, Icy or Snow
Covered Runways
AD-A012 974 75-19 1E PCA02/MFA01

FAA-RD-75-177
Behavioral Characteristics of
Gravelly Sand and Crushed Limestone
for Pavement Design
AD-A033 336 13C PCA04/MFA01

FAA-RD-75-183
State-of-the-Art for Prediction of
Pavement Response
AD-A018 681 76-04 13B PCA05/MFA01

FAA-RD-75-196
Climatic Effects on Airport Pavement
Systems State of the Art
AD-A029 422 76-23 1E PCA13/MFA01

RUNWAY PAVEMENT DESIGN, CONSTRUCTION, AND SURFACE CONDITIONS. (Con't)

- FAA-RD-75-207
State-of-the-Art in Predicting
Pavement Reliability from Input
Variability
AD-A018 904 76-04 13B PCA05/MFA01
- FAA-RD-75-209
State-of-the-Art in Variability of
Material Properties for Airport
Pavement Systems
AD-A018 800 76-04 1E PCA05/MFA01
- FAA-RD-75-218
A Summary of Runway Friction Changes
Due to High-Pressure Water-Jet
Cleaning Operations at Four Airports
AD-A021 684 76-09 1E PCA02/MFA01
- FAA-RD-75-226
An Iterative Layered Elastic
Computer Program for Rational
Pavement Design
AD-A024 334 76-14 13B PCA04/MFA01
- FAA-RD-75-227-1
Pavement Performance Models, Volume
I, Repeated Load Fracture of
Pavement Systems
AD-A035 873 13B PCA09/MFA01
- FAA-RD-76-59
Improvements to Airport Drainage
Criteria, Phase I
AD-A033 644 1E PCA03/MFA01
- FAA-RD-76-64
Collection of Commercial Aircraft
Characteristics for Study on Runway
Roughness
AD-A042 623 1E MFA01
- FAA-RD-76-65
Evaluation of Nonlinear Resilient
Moduli of Unbound Granular Materials
from Accelerated Traffic Test Data
AD-A030 377 76-25 13C PCA04/MFA01
- FAA-RD-76-66
Design and Construction of Airport
Pavements on Expansive Soils
AD-A028 094 76-21 13B PCA09/MFA01
- FAA-RD-76-83
Nondestructive Evaluation of Civil
Airport Pavements
AD-A036 384 13B PCA07/MFA01
- FAA-RD-76-107
Plastic and Resilient Properties of
Heavy Clay under Repetitive Loading
AD-A035 035 1E PCA04/MFA01
- FAA-RD-76-138
Literature Review - Elastic
Constants for Airport
Pavement Materials
AD-A056 195 78-01E OCA07/MFA0
- FAA-RD-76-158
Subgrade Elastic Moduli
Determined from Vibratory
Testing of Pavements
AD-A055 158 78-19 13B PCA06/MFA01
- FAA-RD-76-179
Structural Design of Pavements for
Light Aircraft
AD-A041 300 1E PCA05/MFA01
- FAA-RD-76-206
Experimental Relationships between
Moduli for Soil Layers Beneath
Concrete Pavements
AD-A046 239 13B PCA11/MFA01
- FAA-RD-76-221
Study of Nighttime Pavement
Construction Practices - Asphaltic
Concrete
AD-A041 265 13B PCA05/MFA01
- FAA-RD-77-6
Analysis of Permanent Deformations
of Flexible Airport Pavements
AD-A044 269 1E PCA06/MFA01
- FAA-RD-77-37
Engineering Behavior of Pavement
Materials: State of the Art
AD-A045 272 13B PCA18/MFA01
- FAA-RD-77-38
Plastic Pipe in Airport Drainage
Systems
AD-A041 200 1E PCA05/MFA01
- FAA-RD-77-42
Field Compaction of Bituminous
Mixes for Airport Pavements
AD-A041 335 1E PCA04/MFA01
- FAA-RD-77-101
Research in Airport Pavements
AD-A043 179 1E PCA02/MFA01
- FAA-RD-77-127
Noncontact Nondestructive
Determination of Pavement
Deflection under Moving Loads
AD-A047 161 13B PCA15/MFA01

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Appendix 1

AIRPORT MAINTENANCE AND OPERATIONAL CONCERNS - CRASH/FIRE/RESCUE.

FAA-AS-71-1
Minimum Needs for Airport Fire-
fighting and Rescue Services
AD-720 512 71-09 13L PCA05/MFA01

FAA-RD-71-20
An Analysis of Airport Snow Removal
and Ice Control
AD-728 594 71-19 1E PCA10/MFA01

FAA-RD-71-57
Evaluation of Aircraft Ground
Firefighting Agents and Techniques
AD-741 881 72-13 1B PCA12/MFA01

FAA-RD-73-74
The Use of Ground Cover Materials
to Suppress Fuel Spill Fires
AD-763 447 73-17 1B PCA02/MFA01

FAA-RD-73-196
Evaluation of Identification
Beacons for Airport Emergency
Vehicles
AD-773 445 74-07 1E PCA03/MFA01

FAA-RD-74-92
Systems for Transporting Aircraft
on the Ground; Phase 1A:
Feasibility Study; Phase 1B:
Concept Study
AD-781 357 74-18 1C PCA12/MFA01

FAA-RD-74-147
FAA/Georgia Tech. Workshop on the
Grounding of Electronic Systems
AD-785 858 74-24 9C PCA11/MFA01

FAA-RD-74-204
Evaluation of a High-Capacity,
Firefighting Foam-Dispensing System
AD-A006 264 75-09 1C PCA03/MFA01

FAA-RD-75-25
Electrical Ground Impedance Measure-
ments in Alaskan Permafrost Regions
AD-A011 458 75-17 20N PCA04/MFA01

FAA-RD-75-106
FAA/Georgia Institute of Technology
Grounding Workshop and Lightning
Protection Seminar
AD-A013 618 75-21 9C PCA16/MFA01

FAA-RD-75-121
Jet Blast Fence Investigation at
John F. Kennedy International
Airport
AD-A015 086 75-24 1E PCA03/MFA01

FAA-RD-75-139
Heating Systems for Airport Pave-
ment Snow, Slush, and Ice Control
AD-A020 757 76-08 1E PCA07/MFA01

FAA-RD-76-68
Survey of Grounding, Bonding, and
Shielding Practices
AD-A025 244 76-15 9C PCA05/MFA01

FAA-RD-76-104
Federal Aviation Administration -
Georgia Institute of Technology
Workshop on Grounding, Bonding,
and Shielding
AD-A027 362 76-20 9C PCA12/MFA01

FAA-RD-76-145
Grounding, Bonding, and Shielding
Bibliography 1930 to 1971
AD-A034 653 20C PCA07/MFA01

FAA-RD-76-177
Grounding, Bonding, and Shielding
Bibliography 1971 to 1975
AD-A032 476 9C PCA03/MFA01

FAA-AEQ-77-5
A Study of Aircraft Towing as
Proposed for Boston-Logan
International Airport
AD-A040 102 1E MFA01

FAA-RD-77-84
Federal Aviation Administration -
Florida Institute of Technology
Workshop on Grounding and Lightning
Protection
AD-A043 908 13L PCA22/MFA01

FAA-AAP-78-1
A Review of Certificated Airport
Crash, Fire, Rescue Service
Criteria
AD-A053 110 78-15 1E PCA03/MFA01

VISUAL AIDS.

- FAA-RD-70-15
Evaluation of Taxiway Centerline
Lighting for Runway Exits and
Taxiway Intersections
AD-711 764 70-21 17G PCA03/MFA01
- FAA-RD-70-18
Condenser Discharge Sequence Flasher
System
AD-717 214 71-05 17G PCA12/MFA01
- FAA-RD-70-21
Simulation of a Continuous Runway
Centerline Marking
AD-711 254 70-20 1E PCA03/MFA01
- FAA-RD-70-27
Runway Marking Studies
AD-711 545 70-21 1E PCA03/MFA01
- FAA-RD-70-59
Visual Aids for Secondary Airports
AD-715 443 71-03 17G PCA03/MFA01
- FAA-RD-70-76
Visual Approach Slope Indicator
(VASI) System for Long-Bodied
Aircraft
AD-715 453 1E PCA03/MFA01
- FAA-RD-70-83
Class I Airport Flashing Beacon
AD-725 016 17G PCA04/MFA01
- FAA-RD-71-40
Simulation Study of Chevron Markings
for Areas Adjacent to Runway
Thresholds
AD-726 435 1E PCA02/MFA01
- FAA-RD-71-64
Development of Film Techniques for
Runway Lighting Outage Studies
AD-750 171 5I PCA05/MFA01
- FAA-RD-71-105
Helipoint Beacon Design, Construc-
tion, and Testing
AD-745 514 17G PCA04/MFA01
- FAA-RD-72-27
Considerations on the Relationship
Between White and Red Centerline
Runway Lights and RVR (Runway
Visual Range)
AD-761 119 1E PCA03/MFA01
- FAA-RD-72-42
Slant Visual Range/Approach Light
Contact Height Measurement System,
Mathematical Simulation to Aid in
Selecting SVR/ALCH Measurement
Equipment
AD-742 964 17G PCA08/MFA01
- FAA-RD-72-49
Visual Approach Path Indicator
(VAPI) Evaluation
AD-748 718 1E PCA02/MFA01
- FAA-RD-72-54
Intensity Control of Flashers
AD-745 467 13A PCA04/MFA01
- FAA-RD-72-57
Simulation Study of Diamond Runway
Marks for Aircraft Approach
Guidance
AD-744 899 1E PCA02/MFA01
- FAA-RD-72-91
VASIS Signal Transition Zone and
Color Modifications
AD-748 682 17G PCA02/MFA01
- FAA-RD-72-93
Human Engineering Analysis of
Airport Lighting Control Panels
and a Proposal for a New Design
AD-752 134 9E PCA03/MFA01
- FAA-RD-72-133
Flight Test and Evaluation of
Helipoint Lighting for IFR
AD-753 058 1E PCA03/MFA01
- FAA-RD-73-23
Development of Chemical Coating for
Airfield Runway Marking
AD-765 043 11C PCA04/MFA01
- FAA-RD-73-25
Evaluate Improved Airport Beacon
AD-757 934 17G PCA02/MFA01
- FAA-RD-73-26
Development of Visual Aids to
Alleviate Spatial Disorientation
During Takeoff and Landing
AD-768 849 1B PCA03/MFA01
- FAA-RD-73-96
Visual Approach Slope Indicator
(VASI) Improvements
AD-763 562 1E PCA02/MFA01

VISUAL AIDS. (Con't)

FAA-RD-73-157
Evaluation of a Portable Photometer
to Measure the Light Output of
Installed In-Pavement Lighting
Fixtures
AD-769 935 14B PCA02/MFA01

FAA-RD-73-170
Effects of Various Runway Lighting
Parameters upon the Relation
Between Runway Visual Range and
Visual Range of Centerline and
Edge Lights in Fog
AD-785 320 1E PCA04/MFA01

FAA-RD-73-187-1
Development and Test of Low Impact
Resistance Structures, Volume I,
Structural and Dynamic Aspects
AD-783 185 13A PCA08/MFA01

FAA-RD-73-187-2
Development and Test of Low Impact
Resistance Structures, Volume II,
Interference of Low Impact
Resistance Structures with
Instrument Landing System (ILS)
Signals
AD-781 859 17G PCA05/MFA01

FAA-RD-74-7
Slant Visual Range (SVR)/Approach
Light Contact Height (ALCH)
Management System: Evaluation in
Fog
AD-783 632 17G PCA07/MFA01

FAA-RD-74-47
Approach Light System (ALS)
Multiple Distribution System
Redesign
AD-786 682 17G PCA05/MFA01

FAA-RD-74-58
Inset and Pole-Mounted Approach
Lighting System Sequence Flashers
AD-777 816 17G PCA03/MFA01

FAA-RD-74-67
Development of Edge Lights for
Airport Runways and Taxiways
AD-785 857 1E PCA05/MFA01

FAA-RD-74-128
Evaluation of an Experimental
Elevated High-Intensity Runway
Edge Light
AD-785 016 1E PCA04/MFA01

FAA-RD-74-139
Test of Glide Slope Guidance with
and without Simplified Abbreviated
Visual Approach Slope Indicator
AD-787 304 17G PCA03/MFA01

FAA-RD-74-166
Flight Test of Diamond and Other
Proportioned Runway Paint Markings
for Glide Slope Guidance
AD-A001 038 1D PCA03/MFA01

FAA-RD-74-171
Evaluation of an Experimental
High-Intensity, Inset Runway
Edge Light Fixture
AD-A002 416 13A PCA02/MFA01

FAA-RD-75-16
Survey of Visual Ground Aids at
O'Hare International Airport
AD-A007 625 1B PCA05/MFA01

FAA-RD-75-97
Frangibility Tests of Existing
Approach Lamps and Holders
AD-A013 995 17G PCA03/MFA01

FAA-RD-75-99
Evaluation of a Visual Departure
Path Indicator
AD-A013 996 1B PCA02/MFA01

FAA-RD-75-158
Evaluation of an Airport Lighting
Control and Display System
AD-A018 035 1E PCA02/MFA01

FAA-RD-76-42
Radio Remote Control System for
Airport Visual Navigational Aids
AD-A031 879 17G PCA06/MFA01

FAA-RD-76-74
An Annotated Compilation of NAFEC
Visual Aid Letter and Data Reports
1971-1975
AD-A025 237 76-15 1E PCA05/MFA01

VISUAL AIDS. (Con't)

FAA-RD-76-106

Development and Test of Low Impact
Resistance Structures--Installation
of Approach Lighting System at
Runway 31, NAFEC
AD-A028 321 76-21 17G PCA02/MFA01

FAA-RD-450-042B

Slant Visual Range/Approach Light
Contact Height Measurement
Technique with Data Converter and
Remote Readout Panel
AD-A016 221 75-25 13A PCA02/MFA01

FAA-RD-76-167

Flight Test Evaluation of Slant
Visual Range/Approach Light
Height (SVR/ALCH) Measurement
System
AD-A038 183 1E PCA04/MFA01

FAA-RD-76-201

Evaluation of a Red-Silicone-Coated
Visual Approach Slope Indicator
(VASI) Lens
AD-A035 141 17G PCA02/MFA01

FAA-RD-76-202

Structural Tests of Plastic
Frangible Couplings
AD-A035 096 13E PCA03/MFA01

FAA-RD-77-8

Visual Range: Concepts, Instru-
mental Determination, and Aviation
Applications
AD-A041 098 1E PCA16/MFA01

FAA-RD-77-16

Airport Surface Traffic Control
Visual Ground Aids Engineering and
Development Plan
AD-A038 153 1E PCA04/MFA01

FAA-RD-77-34

Slant and Runway Visual Range
Relationships
AD-A041 134 1E PCA03/MFA01

FAA-RD-77-67

Evaluation of Radio Remote Control
System for Airport Visual Aids
AD-A041 603 17G PCA02/MFA01

FAA-RD-77-71

Development of a Frangible Approach
Light
AD-A043 859 17G PCA03/MFA01

FAA-RD-77-148

Reliability Analysis of Airfield
Lighting Systems
AD-A054 309 78-13 1E PCA06/MFA01

FAA-RD-77-176

Evaluation of 100 Watt Elevated
High-Intensity Runway Edge Light
AD-A051 651 1E PCA02/MFA01

FOG DISPERSAL SYSTEMS.

FAA-RD-70-16
 Economic Studies and Some Test
 Results from Fog Dissipation in
 France
 AD-705 077 70-12 4B PCA04/MFA01

FAA-RD-70-36
 Turboclair Fog Dispersal Method:
 Development and Test of Underground
 Blower Unit (1965-1969)
 AD-711 605 70-21 4B PCA05/MFA01

FAA-RD-71-16
 Influence of Terrain on Design and
 Costs of Ground-Based Fog Dispersal
 Systems at U.S. Airports
 AD-723 726 71-13 4B PCA04/MFA01

FAA-RD-71-44-1
 Potential Economic Benefits of Fog
 Dispersal in the Terminal Area, Part
 I, Estimating Procedure
 AD-735 132 17G PCA10/MFA01

FAA-RD-71-44-2
 Potential Economic Benefits of Fog
 Dispersal in the Terminal Area,
 Part II, Findings
 AD-735 214 4B PCA16/MFA01

FAA-RD-71-94
 Historical Summary of Activities in
 the UC-FAA Fog Chamber
 AD-752 611 1E PCA03/MFA01

FAA-RD-72-13
 Tests of Polyhydric Chemicals for
 Fog Dispersal
 AD-741 557 4B PCA04/MFA01

FAA-RD-72-21
 Evaluation of Warm-Fog Abatement
 Chemicals
 AD-740 640 4B PCA03/MFA01

FAA-RD-72-39
 Statistical Analysis of Meteorolo-
 gical Parameters during Fog at
 45 U.S. Airports
 AD-744 134 4B PCA12/MFA01

FAA-RD-72-92
 Effectiveness of Fog Dispersal
 Techniques at Seattle-Tacoma and
 Spokane International Airports
 AD-752 931 1E PCA09/MFA01

FAA-RD-72-99
 Laboratory Evaluation of an
 Electrogasdynamic Fog Dispersal
 Concept
 AD-749 419 4B PCA03/MFA01

FAA-RD-72-123
 Cold Fog Dispersal Operations at
 Orly Airport, Paris, France,
 Winter 1970-71
 AD-754 342 4B PCA03/MFA01

FAA-RD-72-138
 Thermal Fog Dispersal Manual
 AD-755 945 1B PCA05/MFA01

FAA-RD-73-21
 Warm Fog Dispersal Tests with
 Glycerine in the Panama Canal Zone,
 Part 1 and Part 2
 AD-759 214 4B PCA04/MFA01

FAA-RD-73-33
 Field Evaluation of an Electrogas-
 dynamic Fog Dispersal Concept
 AD-763 550 4B PCA07/MFA01

FAA-RD-73-130
 Fog Simulator System Modification
 AD-766 939 1B PCA04/MFA01

FAA-RD-73-176
 Characteristics of Fog Produced in
 the FAA-U.C. Fog Chamber
 AD-773 418 4B PCA05/MFA01

FAA-RD-74-1
 Warm Fog Dispersal Tests with
 Glycerine at Greenbrier Valley
 Airport, Lewisburg, West Virginia
 AD-776 135 4B PCA03/MFA01

FAA-RD-75-126
 Ground-Based Warm Fog Dispersal
 Systems - Technique Selection and
 Feasibility Determination with
 Cost Estimates
 AD-A028 093 1E PCA05/MFA01

10/12/79

AC 150/5000-4
Appendix 1

AIRPORT POLICY STUDIES.

FAA-AV-71-1
A First Approximation Satellite
Terminal System Evaluation Model
AD-724 958 71-15 1E PCA08/MFA01

FAA-AV-71-4
A First Approximation Satellite
Terminal System Evaluation Model,
Program User's Instruction Manual
AD-737 334 72-07 1E PCA05/MFA01

FAA-AV-71-5
An Application of Dynamic Pro-
gramming to Capital Investment
Decision Analysis
AD-745 641 72-17 12B PCA06/MFA01

FAA-AV-72-2
Community Values in the Planning
and Evaluation of Airport
Development Projects
AD-747 914 72-20 13B PCA07/MFA01

FAA-AV-72-4
An Evaluation Study of the Airport
Development Aid Program, FY 1971-
1972
AD-763 547 73-17 1E PCA12/MFA01

FAA-AAV-73-3
Alternatives to the Airport
Development Aid Program
AD-A001 348 75-02 1E PCA03/MFA01

FAA-AAV-73-4
ADAP Aid to Private Airports: A
Preliminary Assessment and Related
Questions for Research
AD-A001 349 75-02 1E PCA03/MFA01

FAA-AAV-73-5
Airport Opposition: Examination
and Program Development
AD-A001 350 75-02 1E PCA02/MFA01

FAA-AVP-74-1
The Airport Passenger Head Tax
Analysis of Its Potential Impact
AD-A004 308 75-07 1E PCA09/MFA01

FAA-ASP-74-1
Buy Now, Fly Later: Land Banking
for Airport Development
AD-A025 961 76-17 1E PCA10/MFA01

FAA-ASP-77-3
Establishment of New Major Public
Airports in the United States
AD-A046 462 1E PCA07/MFA01

FAA-AVP-77-5
Airport Quotas and Peak Hour
Pricing: Theory and Practice
AD-A036 773 1E PCA05/MFA01

FAA-AVP-77-6
Satellite Airports: Analysis of
Development Potential
AD-A036 893 1E PCA08/MFA01

FAA-ASP-77-7
Airport Land Banking
AD-A046 475 1E PCA04/MFA01

FAA-AVP-77-12
Airport Quotas and Peak Hour Pricing:
Analysis of Airport Network Impacts
AD-A037 080 1E PCA08/MFA01

FAA-AVP-77-36
Metropolitan Washington Airport Policy
Analysis
AD-A052 349 78-14 1E PCA05/MFA01

✓ 74-1541

✓ 74-1542

APPENDIX 2. NTIS PUBLISHED SEARCHES

The following is a list of selected NTIS Published Searches involving airport or airport-related subject categories. The number in parentheses specifies the total number of abstracts contained in the Published Search. When available, use the NTIS Published Search Catalog in lieu of this listing.

<u>Title and Publication Date</u>	<u>NTIS Ordering Number</u>
Aircraft Air Pollution, Vol. 1 1964-1974 (127), July 1976 Includes studies concerning pollution from supersonic aircraft and aircraft ground operations	NTIS/PS-76/0528
Aircraft Air Pollution, Vol. 2 1974-July 1977 (227), July 1977 Includes studies concerning pollution from supersonic aircraft and aircraft ground operations	NTIS/PS-77/0570
Airfield Pavement Evaluation, Vol. 1 1964-1970 (159), July 1976	NTIS/PS-76/0578
Airfield Pavement Evaluation, Vol. 2 1971-1972 (123), July 1976	NTIS/PS-76/0579
Airfield Pavement Evaluation, Vol. 3 1973-June 1975 (111), July 1976	NTIS/PS-76/0580
Airfield Pavement Evaluation, Vol. 4 July 1975-July 1977 (169), August 1977	NTIS/PS-77/0662
Airport Development: Social and Economic Effects (40), June 1977	NTIS/PS-77/0441
Airport Noise (219), August 1977	NTIS/PS-77/0704
Air Traffic Congestion and Capacity (146), July 1977	NTIS/PS-77/0567
Bird Strikes and Aviation Safety (62), July 1977 Includes windshield strikes and engine injection	NTIS/PS-77/0606
Demands and Needs of Future Transportation, Part 1 - Air Transportation (149), February 1977	NTIS/PS-77/0054

<u>Title and Publication Date</u>	<u>NTIS Ordering Number</u>
Fog Dispersal (219), November 1977	NTIS/PS-77/1024
Maneuvering Aircraft: Noise Pollution and Control (220), September 1976 Covers takeoff, landing, and flyby noise excluding sonic boom	NTIS/PS-76/0733
Nondestructive Testing of Pavements and Pavement Bases (97), February 1977	NTIS/PS-77/0051
Offshore Structures (189), August 1977 Excludes offshore drilling platforms	NTIS/PS-77/0716
Preparation and Evaluation of Environmental Impact Statements (80), 1970-November 1976	NTIS/PS-76/0898
Signs and Display Systems: Graphic Design and Human Engineering (121), December 1976	NTIS/PS-76/0967
Snow Removal and Deicing Techniques for Roads and Runways (143), December 1976	NTIS/PS-76/0987
Tire Hyrdoplaning (103), September 1977	NTIS/PS-77/0732
Transportation for the Elderly or Physically Handicapped (147), August 1977	NTIS/PS-77/0713

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A18	401 - 425	13.25
A19	426 - 450	14.00
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A21	476 - 500	15.00
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A24	551 - 575	16.25
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N02 Directory of Computer- ized Data Files	\$50.00

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Schedule

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

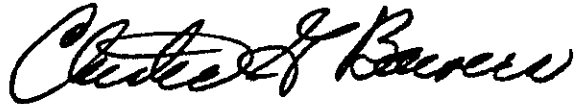
SUBJECT: ANNOUNCEMENT OF SUPPLEMENTARY REPORT -- A SUGGESTED ACTION PROGRAM FOR THE RELIEF OF AIRFIELD CONGESTION AT SELECTED AIRPORTS

1. PURPOSE. This advisory circular announces the availability to the public of the subject report.
2. DESCRIPTION OF THE PUBLICATION. The original report, dated April 1969, presented a suggested action program for relief of airfield congestion at eighteen of the Nation's highest density airports.

This supplement separately identifies and analyzes possible improvements needed to prevent delays at ten additional airports where forecast demand compared with present capacity indicates serious congestion will become a problem in the near future. Discussion is presented on pending causes of aeronautical congestion and on the current operational status of each airport. This supplemental report is concerned primarily with physical construction projects which will improve the particular airport's airfield capacity such as high speed exit taxiways, parallel runways, and navigational aids. It also examines certain procedural improvements such as intersection takeoffs and part-time use of taxiways as VFR runways.

3. SCOPE. This supplemental report contains a general description, analysis of improvements, summary of recommendations, and a sketch for ten major airports serving the following areas: Buffalo, New York; Dallas, Texas; Detroit, Michigan; Kansas City, Missouri; Milwaukee, Wisconsin; Minneapolis-Saint Paul, Minnesota; New Orleans, Louisiana; Pittsburgh, Pennsylvania; San Jose, California; and Tampa, Florida.
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