Overview of the Airport Data and Information Program

September 10, 2019
Airport Data and Information Program

Approximately 19,772 landing facilities in the FAA database (airports, heliports, seaplane bases, gliderports, balloonports, and ultralight flightparks)
Airport Data and Information Program

Approximately 3,517 airports receive federal funding and are included in the National Plan of Integrated Airports System (NPIAS)
Airport Data and Information Program

Approximately 524 airports in the US have commercial service
Airport Data and Information Program

FAA Office of Airports

- 3 Headquarters Offices
- 9 Regional Division Offices
- 21 Airport District/Development Offices
  - Engineering/Safety/Certification
  - Planning/Programming
  - Noise and Environmental
  - Compliance
Airport Data and Information Program

FAA Office of Airports

https://www.faa.gov/about/office_org/headquarters_offices/arp/regional_offices/

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Airport Data and Information Program

FAA Office of Airports

Mission:
• To “collect” airport data
• To “deliver” the airport data to the Air Traffic Organization
Airport Data and Information Program

FAA Office of Airports

Programs that deal with the **collection** of airport data:

- Airport Data and Information
  - State Inspection and 5010 Program
  - Private Airport Survey Mail Solicitation
- Airports GIS Survey
  - GIS = Geographic Information System
- Airport Airspace Analysis
  - OE/AAA database
SUBJ: Airport Data and Information Management

This order prescribes requirements, delegates authority, assigns responsibility, and provides guidance for assuring compliance with the provisions of the Airport Data and Information Management program. This directive defines the roles and responsibilities of Federal Aviation Administration (FAA) personnel in the collection, management, processing, and handling of data describing the physical infrastructure, characteristics, services and operational environment of the airport.

Michael P. Huerta
Administrator
Airport Data and Information Program

FAA Order:

Tells FAA employees how to do their jobs.
Airport Data and Information Program

Advisory Circular (AC):

Recommendation to aviation community.
Advisory in nature.

Unless....
Airport Data and Information Program

You are a NPIAS airport with Federal Obligations ($$)... 

AC is mandatory. 

National Plan of Integrated Airport Systems (NPIAS) 

Approx. 3,517 existing and proposed airports that are significant to national air transportation and thus eligible to receive Federal grants under the Airport Improvement Program (AIP).
OE/AAA

Obstruction Evaluation/Airport Airspace Analysis

OE = Obstruction Evaluation
Airport Airspace Analysis Program

AAA Mission:

• To “analyze” airport airspace data

• To “forward” the airport airspace data to the Airport Data and Information Program, who in turn “gives” the data to the Air Traffic Organization
Airport Airspace Analysis Program

Mission: to analyze airport airspace data via aeronautical studies. These studies analyze the impact of airport construction and potential hazards to navigation on the National Airspace System using the OE/AAA database.

AAA Form
Form 7480-1 Notice of Landing Area Proposal
(see the 8 items in the instructions)

OE Form
Form 7460-1 Notice of Proposed Construction or Alteration

Form 7460-2 Notice of Actual Construction or Alteration
Airport Airspace Analysis Program

FORM 7480-1:

1. Establish a new airport.
2. Add-modify-delete a runway.
3. Add-modify a taxiway.
4. Abandon an airport.
5. Abandon a taxiway.
6. Change the status of an airport from private use to public use and from public use to private use.
7. Change status from IFR to VFR or from VFR to IFR.
8. Establish or change any traffic pattern or traffic pattern altitude or direction.
Airport Data and Information Portal (ADIP)

• Provides a single portal for the collection and management of airports data

• Allows the FAA and airports to collaborate more effectively and efficiently on airport planning, design, operations and maintenance decisions
  • Airport Master Records (5010) Module
  • Airports GIS Survey Module
  • Modification to Standards
  • Surface Analysis and Visualization Tool ("20:1 Tool")
  • Runway Incursion Mitigation (RIM) Program
  • High Resolution Imagery
  • Legacy ALP’s
Air Traffic Organization

Operational arm of the FAA responsible for providing safe and efficient air navigation services to 30.2 million square miles of airspace (includes all of the United States and large portions of the Atlantic and Pacific Oceans and the Gulf of Mexico).

Mission:
To “disseminate” and “publish” the airport data
Form 5010 Data

What is the 5010 database?
Form 5010 Data

There is no such thing as a “5010 database”

Air Traffic maintains the database:

NASR = National Airspace System Resources
National Airspace System Resources (NASR)

Aeronautical Data Team (ADT, formerly NFDC) maintains

• The National aeronautical information database

• The National Airspace System Resources (NASR)

• Provides aeronautical information to government, military, and private producers of aeronautical charts, publications, and flight management systems.
National Airspace System Resources (NASR)

Database element examples

- Airport Data
- Runway Data
- Remarks Data
- Navaids Data
- Airspace Fixes
- Holding Patterns
- Victor Airways
- Jet Airways
- Parachute Jump Areas
- US Location Identifiers (LOC IDs)
- Canadian LOC IDs
- Mexican LOC IDs
- Preferred Routes
- Restricted Areas
- Special Use Airspace
- Military Opns Areas
Airport Data and Information Program

FAA Form 5010-1 has two functions:

• It is a report officially obtained from the Air Traffic Organization database which contains useful airport data at a glance.

• It also serves as a planning document or checklist for conducting airport inspections.
Airport Data and Information Portal (ADIP)

- Allow airports and their sponsors/consultants to submit and manage airport data in a single location, transparently
- Reduce manual processes current necessary between all parties in order to make revisions
- Must be OWNER/MANAGER listed on current Airport Master Record (5010) form to gain access to system
  – Ability to designate responsible party
Airport Master Records (5010) Module inside the Airport Data and Information Portal (ADIP)

Allows airport managers, state aeronautical department inspectors, FAA Airport Certification Safety Inspectors (ACSIs), and FAA ADO, Regional, and Headquarter personnel to transmit airport safety inspection data directly to the FAA.
Airport Master Records (5010) Module inside the Airport Data and Information Portal (ADIP)

Data Flow

State, FAA Inspectors, and Airports

5010

Refreshing of the ADIP AMR 5010 Database by FAA every 28 days

XML Export of Changes

Aeronautical Information Services
Aeronautical Data Team (ADT)
Airport Master Records (5010) Module inside the Airport Data and Information Portal (ADIP)

ADT View of Airport Changes
Airport Master Records (5010) Module inside the Airport Data and Information Portal (ADIP)

The Result...Published in National Flight Data Digest (NFDD)

Published in Chart Supplements
Airport Data and Information Program

GCR Inc. (GCR) - contractor with the Office of Airports, Airport Data and Information Program

• Administers FAA grant for reimbursing all 50 states for their airport inspections of public-use, non-Part 139 airports (Reimbursed states over $13.5 Million to date)

• Created BasedAircraft.com assisting FAA with the National Based Aircraft Inventory Program

• Created CCMISNet used by all FAA Part 139 Inspectors to manage inspections and compliance of over 500 certificated air carrier airports

• National Private Use Airport Survey for the FAA to update data on over 14,000 private use facilities
Airport Data and Information Program

137,013 TOTAL!
Airport Data and Information Program

NASAO – contractor to GCR, Contract Administrator/Program Promoter

- Responsible for negotiating a services agreement with each state aeronautics department for completion of public use, non-Part 139 airport data inspections

- Following agreement execution, NASAO issues an electronic Notice-To-Proceed to the state to begin airport data inspection services

- Contract duration is based on the federal fiscal year (October 1 through September 30 the following year) and the number of inspections is based on 1/3 of total number of non-Part 139, civil public-use airports in the state

- NASAO audits status of all contracts until all have been executed or have opted out of the program

- NASAO prepares and distributes a quarterly newsletter promoting the program and seeking ways to improve it
Airport Data and Information Program

Participation by States

• Program’s intent is to utilize inspectors within each state aeronautics department to conduct airport data field inspections

Contracts with States

• Ordering of inspection services accomplished by execution of a services agreement with each state aeronautics department

• If a state choose to not participate, a contractor recommended by the state or GCR, will conduct the inspection on behalf of that state aeronautics department
Airport Data and Information Program

State Aviation / Contractor

• Inspection Responsibilities:
  • Inspect at least 1/3 of your state’s non-Part 139, public-use airports/heliports
  • Request based aircraft participation in BasedAircraft.com for applicable airports (non-primary, NPIAS)
  • Submit changes through 5010 within 2 weeks of inspection
  • Receive reimbursement for each applicable Inspection
Airport Data and Information Program

Inspection Reimbursement

• GCR prepares an invoice statement per month of inspection activity submitted through 5010 for each participating state/contractor. Statement contains a listing of each airport inspected and forwarded during the reporting period, the inspector’s name, the date inspected, date submitted to 5010, and the date forwarded to the FAA.

• States/contractors confirms accuracy of statement and notifies GCR of any changes needed

• GCR draws down from grant (typically 3rd week in month) and sends reimbursement check back to state/contractor within 3 days of receipt of grant funds

Since 2001:
42,046 airports inspected
$13.5 Million Reimbursed
National Based Aircraft Inventory Program

https://www.BasedAircraft.com
National Based Aircraft Inventory Program

• All non-primary, NPIAS airports **must** submit an aircraft N-Number in BasedAircraft.com (www.BasedAircraft.com) for every Single Engine (SE), Multi-Engine (ME), Jet (J), or Helicopter (H) based aircraft claimed.

• BasedAircraft.com (www.BasedAircraft.com), maintained by GCR for the FAA, is the only website setup for this purpose.

• BasedAircraft.com is the only website to add, edit, or delete SE, ME, J and H based aircraft for non-primary, NPIAS airports.
National Based Aircraft Inventory Program

• Login accounts to BasedAircraft.com were issued for all corresponding Airport Managers and each state aviation departments

• Currently, a based aircraft N-Number entered in BasedAircraft.com is only validated (counted) if:
  1) found in FAA Aircraft Registration database;

  AND

  2) not duplicated at any other airport.
National Based Aircraft Inventory Program

• BA counts are sent to FAA (5010) automatically every time an Airport Manager “Confirms” their aircraft list in BasedAircraft.com

• Users cannot increase or decrease counts for SE, ME, J, and H at NPIAS, non-primary airports in 5010.

• Select Validate Counts button in 5010 to import the latest counts from BasedAircraft.com, at any time
National Based Aircraft Inventory Program

Based Aircraft Facts:

• All NPIAS, non-primary airports **must** enter an N-Number in BasedAircraft.com for every SE, ME, J, and H aircraft they claim is based at their facility

• An aircraft in BasedAircraft.com is currently only counted if:
  a) found in FAA Aircraft Registration database;
     and
  b) not duplicated at any other airport

• BasedAircraft.com is the only website to add, edit, or delete SE, ME, J, and H based aircraft counts for non-primary, NPIAS airports
National Based Aircraft Inventory Program

Based Aircraft Facts:
- Users cannot increase or decrease based aircraft counts for SE, ME, J, and H aircraft at a non-primary, NPIAS airport in Airport Master Records 5010.
- Counts are sent to FAA automatically every time an Airport Manager “Confirms” their aircraft list in BasedAircraft.com.
- For applicable airports, counts are sent to FAA (through 5010) automatically every time an Inspector selects “Validate Counts” in 5010, AND submits either an Inspection or Additional Information submittal.

Email BasedAircraftSupport@BasedAircraft.com with any questions.
Airport Data and Information Program

Private Use (PR) Airport Survey

• Cover Letter Explaining Survey
• Current 5010 Form
• Form 7480
• Postage Paid Return Envelope

Developed Bar Code Scanning Application

• Tracks all Levels of Processing
• Allows Full Flat Bed Scanning for Future Uploading To Document Management Server
• Tracks Research Activities
Airport Data and Information Program
Private Use (PR) Airport Survey

Response

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<tr>
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<td>Delivered – Not Responded</td>
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80% CONTACTED

Response Types

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<tr>
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<tr>
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<tr>
<td>Delivered with No Changes</td>
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<tr>
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<tr>
<td><strong>TOTAL</strong></td>
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</table>
• Print 5010 Forms for every airport
• Advanced multi conditional searches (NPIAS Service Level, NPIAS Hub Type, Min/Max Runway Lengths, Airport Towered, etc.)
• Export data to Excel
Thank You

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