Federal Aviation Administration

Policy Guidance

Date: May 16, 2025

To: Regional Airports Division Managers
610 Branch Managers
620 Branch Managers
Airports District Office Managers

From: John R. Dermody, Director, Airports Safety and Standards, AAS-1

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Date: 2025.05.16 14:30:55 -04'00'

Danielle J. Rinsler, Director, Office of Airports Planning and Programming (APP)

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Date: 2025.05.16 18:28:23 -04'00'

Subject: Airport Engineering Policy Memo 25-01: Updated Guidance for Airports Geographic Information Systems (AGIS) Survey Program

Purpose

This Airport Engineering Policy memo (EPM) cancels the *2022 Updated Guidance for Airports Geographic Information System (AGIS) Survey Program.* It provides updated and clarified instructions for airport projects receiving federal grant funding that involves the collection of Safety-Critical Data (SCD) to support and improve airport geospatial data and facilitate the timely development of Instrument Flight Procedures (IFPs). Projects identified in this EPM that require "Design" data submissions to AGIS must submit this data 2–3 years prior to project completion. Early submission ensures that new or revised IFPs can be developed and amended in a timely manner to ensure minimal operational impacts to an airport during final project commissioning. Only the SCD features and attributes listed in Appendix A of this EPM are required for collection and submission under the "As-Built" and "Design/As-Built" project types. For additional survey requirements for various project types, please refer to AC 150/5300-18B, *General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System (GIS) Standards,* Table 2-1. The application of this EPM, including funding eligibility and implementation guidance, is further supported by Federal Aviation Administration (FAA) Order 5100.38D, *Airport Improvement Program Handbook*, Section 3-77 (*GIS Data Collection*).

PROGRAM REQUIREMENTS

A. General Tolerance Supporting Publication Updates ("As-Built")

An AGIS survey project type that involves the collection and verification of existing SCD that does not require modifications to current IFPs but may be required to update additional FAA publications. Future/planned SCD must not be submitted to this project type. (Examples: Airport Airspace Analysis, Aeronautical Information Publication, Airport Master Record). An As-Built is required if the planned Geodetic Location (Latitude/Longitude) and/or Elevation (Mean Sea Level (MSL)) of any SCD feature listed in Appendix A (not including "Obstacle" or "Obstruction Identification Surface" features) will change by more than:

1. Longitudinally (along runway (RWY) centerline): Greater than 1-foot (1') longitudinally from current published values, and/or
2. Laterally (left or right of RWY centerline): Greater than 1-foot (1') from current published values, and/or
3. Elevation (MSL): Greater than 6-inches (6") vertically.

B. Object Survey Tolerance Supporting IFP Development or Amendments ("Design/As-Built")

An AGIS survey project type that involves the collection of new/planned SCD that will affect published airport data and IFP development or amendments. This project type requires an initial data submittal that supports AC 150/5300-18, Table 2-1, *Instrument Procedure Development* prototypes for new/amended instrument approach charts, and a follow-up As-Built data submittal that verifies the accuracy of previously submitted data as part of the workflow process (Examples: New runway, runway extension, Navigational Aids (NAVAID) installation/update, transitioning a runway from visual flight rules (VFR) to instrument flight rules (IFR), going from Non-Precision to Precision Approaches). A Design/As-Built survey project is required, with the recommendation that an AC 150/5300-18B Airport Airspace Analysis (AAA) is completed, for all planned changes to a Physical Runway End that will modify the Geodetic Location (Latitude/Longitude) or Elevation (MSL) values by:

1. Longitudinally (along RWY centerline): Greater than 50-feet (50'), and/or
2. Laterally (left or right of RWY centerline): Greater than 10-feet (10'), and/or
3. Elevation (Mean Sea Level - MSL): Greater than 3-feet (3') vertically.

If an airport has never completed an AC 150/5300-18B AAA and has published IFP charts, it is recommended that a new AC 150/5300-18B AAA be completed with the next survey project.

C. Pavement Design, Construction, Rehabilitation or Roughness

1. For pavement rehabilitation projects (i.e., Mill & Overlays), an As-Built is not required if all associated SCD feature values do not exceed the tolerances listed in Paragraph A.

2. If the post-construction field survey finds that runway-associated SCD features, found in Appendix A, exceed the tolerances of Paragraph A, an As-Built will be required to update published SCD feature values.

D. Additional Survey Project Types Including Airport Layout Plans (ALP)

1. Refer to AC 150/5300-18B, Table 2-1 for program deliverable requirements for project types not listed in this EPM.
2. ALP projects will still be accepted as an As-Built and should not include any Design feature data.
3. Primary Airport Control Stations (PACS), Secondary Airport Control Stations (SACS) and Non-SCD projects will still be accepted and processed.

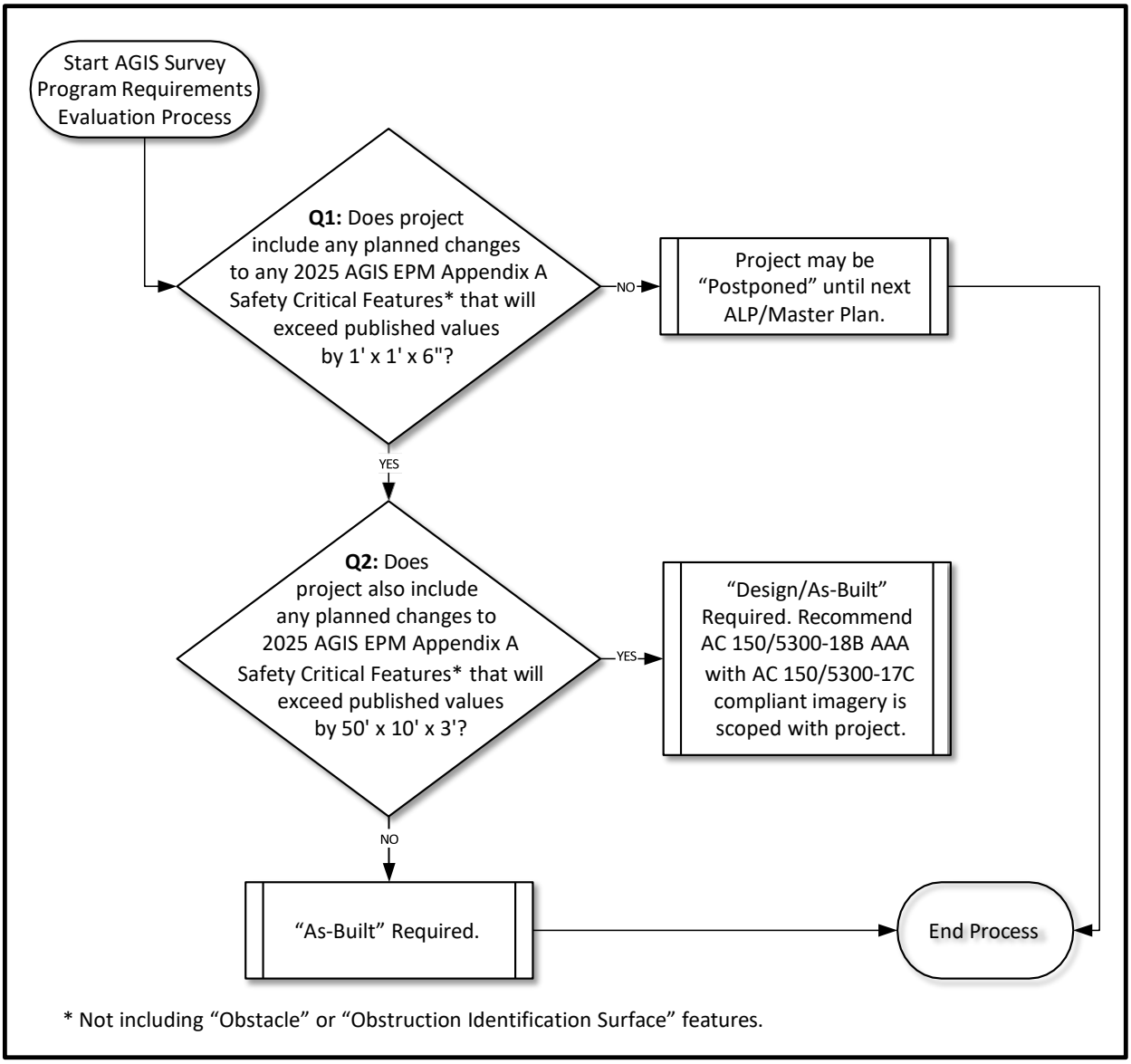
E. Imagery Requirement

AC 150/5300-17C, *Standards for Using Remote Sensing Technologies in Airport Surveys*, compliant imagery is only required when an AC 150/5300-18B AAA is scoped with a project.

OUTREACH

In support of this memorandum and the survey program, the Office of Airport Safety and Standards (AAS) will provide upcoming training opportunities. Please notify our AGIS Survey Program Manager, Drew Goldsmith (Andrew.E.Goldsmith@FAA.gov) for additional questions or to inquire about upcoming training webinars.

AGIS PROJECT WORKFLOW DECISION TREE



RELATED DOCUMENTS AND REFERENCES

AC 150/5300-16 – *Aeronautical Survey Requirements*
AC 150/5300-17 – *Standards for Using Remote Sensing Technologies in Airport Surveys*
AC 150/5300-18 – *General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System (GIS) Standards*
Engineering Policy Memo 24-01 – *Initiation and Planning of Instrument Flight Procedures (IFP)*
Order 5100.38D, Change 1 – *Airport Improvement Program Handbook*

APPENDIX A – SURVEY FEATURE SUBMITTAL REQUIREMENTS

The following is a list of AC 150/5300-18B Safety Critical Data features that support additions and updates to published airport data and IFP development:

1. 5.4.13. Stopway (if exists)
2. 5.4.18. Touch Down Lift Off (heliports only)
3. 5.4.22. Runway
4. 5.4.26. Runway End
5. 5.5.2. Obstacle (if AC 150/5300-18 AAA is being completed)
6. 5.5.4. Obstruction Identification Surface (if AC 150/5300-18 AAA is being completed)
7. 5.8.2. Airport Control Point – Airport Elevation
8. 5.8.3. Airport Control Point – Centerline Perpendicular Points
9. 5.8.4. Airport Control Point – Displaced Threshold Point
10. 5.8.6. Airport Control Point – Profile Points (and offsets, if required)
11. 5.8.7. Airport Control Point – Touchdown Zone Elevation (TDZE)