



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

## **MEMORANDUM OF AGREEMENT**

**BETWEEN**

**Flight Standards Service, Flight Technologies and Procedures Division, AFS-400**

**And**

**Mission Support Services, Aeronautical Information Services, AJV-5**

### **Article I. Purpose:**

This Memorandum of Agreement (MOA) defines the strategy for the release of Instrument Flight Procedure (IFP) criteria in conjunction with the automation necessary for its implementation.

### **Article II. Background:**

To advance future applications of legacy and Performance Based Navigation (PBN) IFP criteria development and deployment, AJV-5 and AFS-400 discussed a holistic approach to streamlining the release of IFP criteria and the automation tools used to develop and publish navigational products. This approach will aid in consistent application of IFP design criteria and improve automation product deployment.

The Agency goal is IFP automation tools, to include IPDS and TARGETS as well as any future tool(s) used in the determining feasibility and development of IFPs, be simultaneously released along with new IFP criteria and ensure alignment with the criteria objectives and the training necessary for production.

### **Article III. Objective and Scope:**

The objective of this MOA is to outline the joint roles and responsibilities of AJV-5 and AFS-400 as they relate to the development of IFP criteria and the associated automation software requirements as shown in the attachment.

The expected outcomes are improved clarity in the intent of the criteria, established timeframes for criteria and automation development, and timeliness of implementation through automation.

### **Article IV. Responsibilities:**

AFS-400 and AJV -5 will:

1. Convene joint meetings of the Criteria and Automation team, co-chaired by AFS-400 and AJV-5, to review criteria development planning, operational implementation requirements, automation updates that include development, testing, and training timelines, and establish release dates to coincide with full production. Representatives from other organizations will be included as appropriate in the development of prototyping and production automation tools.

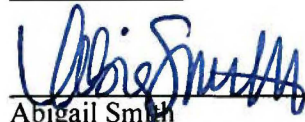
- a. The team will establish and document milestones to ensure all automation, training, and implementation will be accomplished as planned.
  - b. The team will meet regularly to review progress and address any issues, measure progress against established milestones, and coordinate any changes to agreed-upon milestones and plans as necessary.
  - c. Once automation development has reached a planned milestone, the team will assess deliverables to ensure the automation product satisfies needs and expectations.
2. Collaborate on proposed criteria changes, and accomplish impact analysis for the following to determine the criteria acceptability:
  - a. National Airspace System
  - b. Automation Systems
  - c. IFP Process
  - d. Charting
3. Ensure all modifications, testing, evaluation, and training is completed for automation systems.
4. Ensure development and maintenance of prototype and production software analytical engine iterations. These software engines will provide all the analytical computational processing necessary to automate instrument flight procedure development. The iterations will be used for NAS impact studies, IFP production, periodic review evaluations, feasibility testing, and other tasks as required.
5. Ensure implementation of all software applications necessary for end-user interaction with the analytical software engines. This would include the functions necessary for user inputs during procedure development, automated data input from all applicable databases, and visual and textual output after processing by the software engine.
6. Review all draft criteria and revision(s) of the production analytical engine to ensure all procedure development tools can be programmed and will function correctly with the engine. Ensure the production analytical engine aligns with the intent of the criteria and available for use upon publication of the new or revised criteria.

#### **Article V. Amendment and Termination:**

This agreement will be reviewed annually by AJV-5 and AFS-400 to determine the need for modification or termination.

**Article VI. Effective Date:** This agreement is effective upon signature.

#### **APPROVED:**



Abigail Smith  
Director, Aeronautical Information Services  
AJV-5



Bruce DeCleene  
Manager, Flight Technologies and Procedures Division  
AFS-400

9/1/2015  
Date

9/1/2015  
Date

# IFP Criteria and Automation Process Flow

