

Chart Supplement Modernization

Presented to: Aeronautical Charting Meeting – Charting Group – 23-01

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Date: April 2023



**Federal Aviation
Administration**

XML Enhancement Project - Status

- **Add selected notice entries**

- Individual entries are manually tagged
- Entries that are tied to one airport entry
- Currently in development and testing
- Expected publication – estimated for October 2023

- **Phase I**

- A/FD entry only (includes continued pages)

- **Phase II**

- A/FD entry (includes continued pages) and backmatter entry (multipage)

```
<airport>
  <aptname>WASHINGTON DULLES INTL</aptname>
  <aptcity>WASHINGTON</aptcity>
  <aptid>IAD</aptid>
  <navidname></navidname>
  <pages>
    <pdf>ne_56_29DEC2022.pdf</pdf>
    <pdf>ne_IAD_notices_29DEC2022.pdf</pdf>
  </pages>
</airport>
```

PHASE I - AFD Page(s)

PHASE II - Airport specific back matter pages



Chart Supplement Modernization Initiative

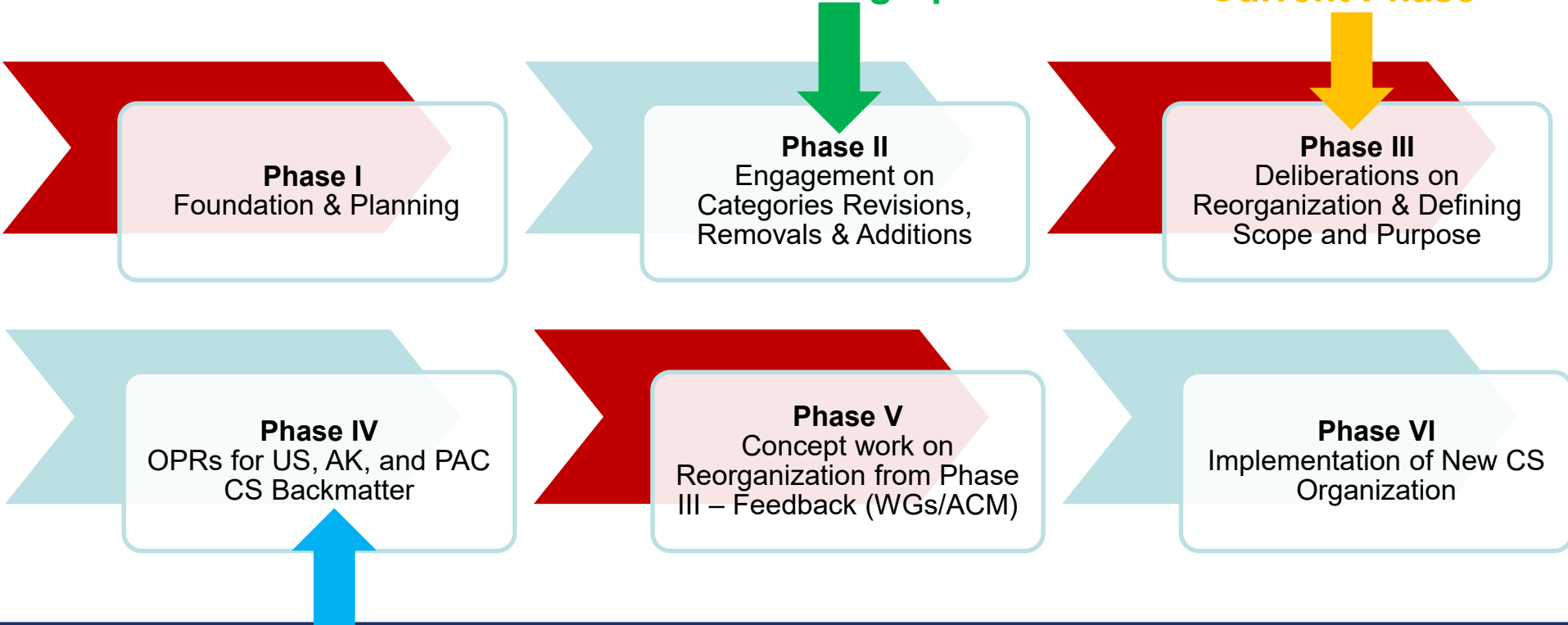
- **2021 – Chart Supplement Meetings**
 - Pacific Chart Supplement – July 2021
 - Alaska Chart Supplement – December 2021
- **2022 – Consolidate Meeting Reports**
 - Total of over 70 recommendations
 - Recommendations organized into four categories
 - Revision, Removal, Addition and Reorganization
- **May 2022 – present – Work on recommendations**
 - Main and Internal Workgroups working through recommendations



Chart Supplement Modernization Initiative

Finishing Up

Current Phase



Starting



Federal Aviation
Administration

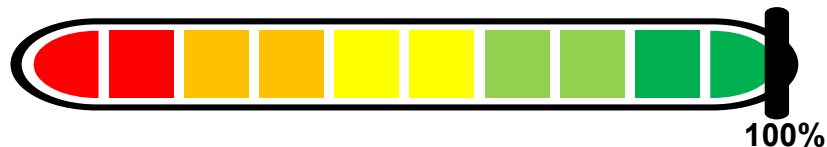
Summary of Actions and Progress Made in 2022 and Early 2023

- **Work started in May 2022**
- **Phase I was completed in June 2022**
- **Phase II – Engagement on Categories**
 - Total number of topics worked since May 2022 = 82
- **Work in progress for Phase III – The Reorganization Phase**
- **Completed Inventory work was completed in preparation for Phase IV – CS Backmatter Ownership**
 - In all, around 506 items were inventoried
 - As of today, 418 (83%) having missing or incomplete OPR information
- **Chart Supplement Definition – AIM, Pilot/Controller Glossary and AJV-A Website**
 - Submissions to AJV-P was submitted in March 2023; AIM/P/CG and website to be updated in March 2024
- **Work started on drafting a new FAA Order for the Chart Supplement**

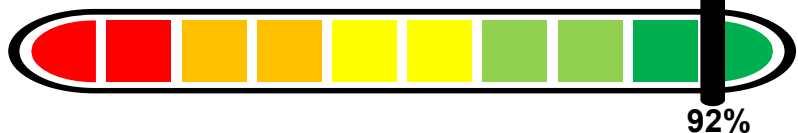


Top Level Summary Status of CS Modernization Initiative

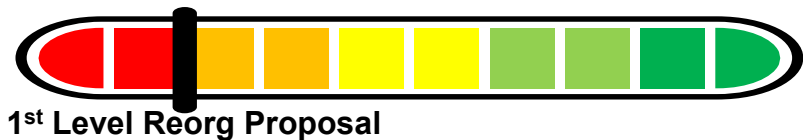
Phase I – Foundation & Planning



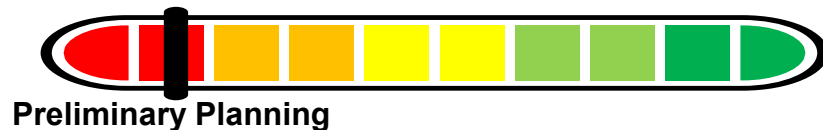
Phase II – Engagement on Categories (Revisions, Removals and Additions)



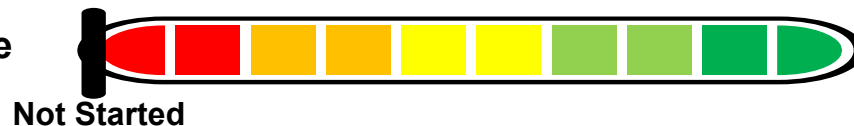
Phase III – Deliberations on Reorganization and Defining Scope & Purpose



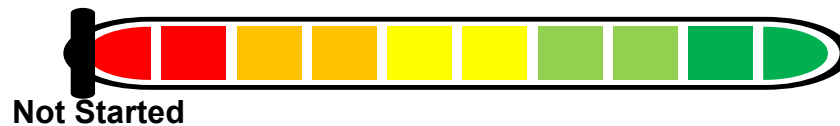
Phase IV – OPRs for US, AK, and PAC Backmatter



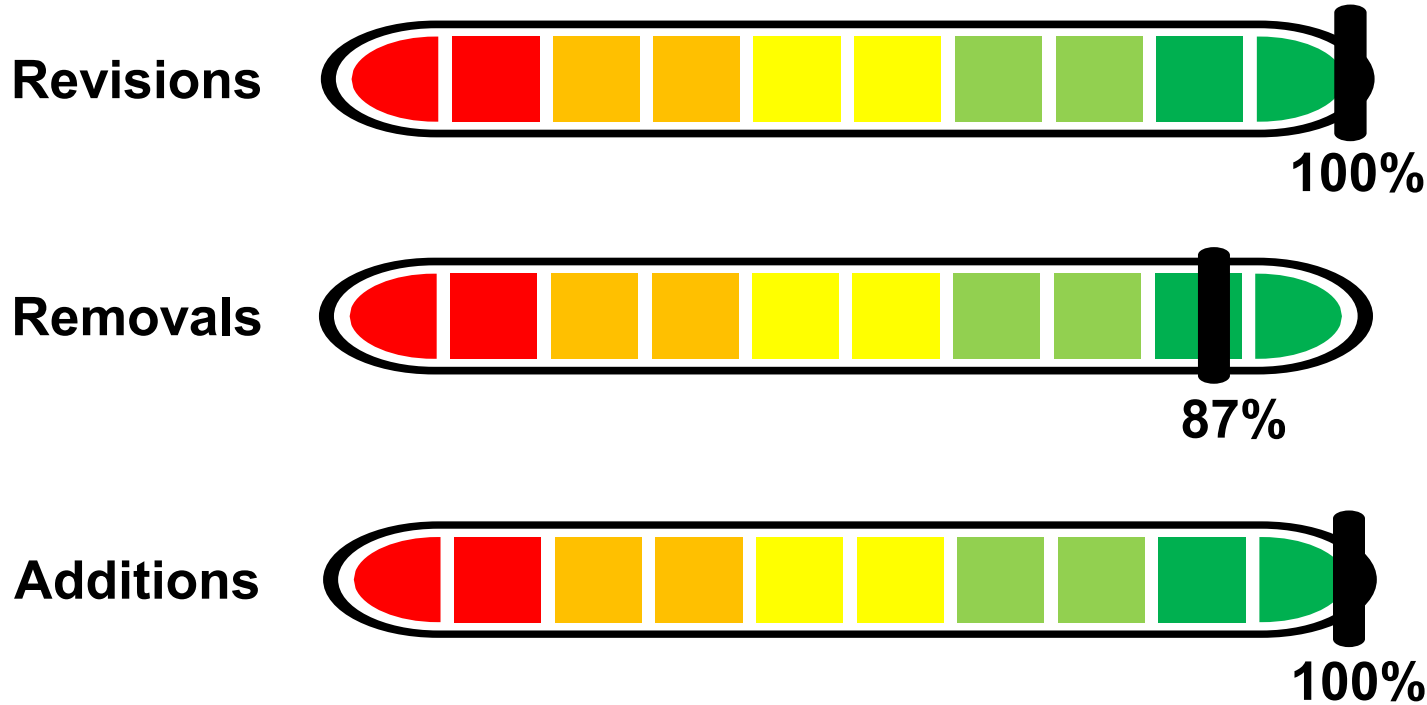
Phase V – Concept Work on Reorganization from Phase III – Feedback (WGs and ACM)



Phase VI – Implementation of New CS Organization

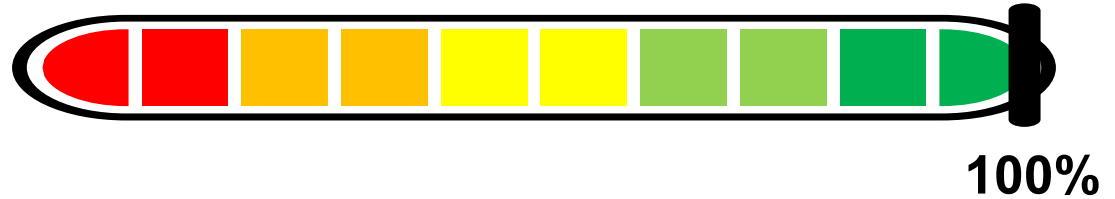


Phase II - Chart Supplement Alaska

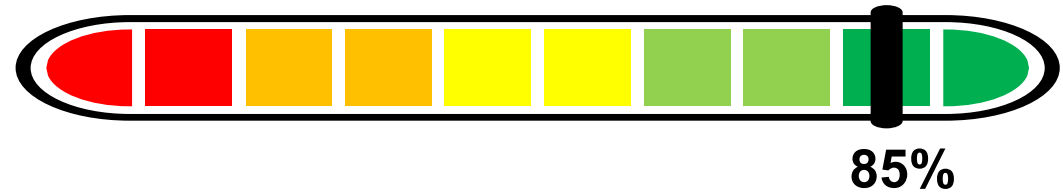


Phase II - Chart Supplement Pacific

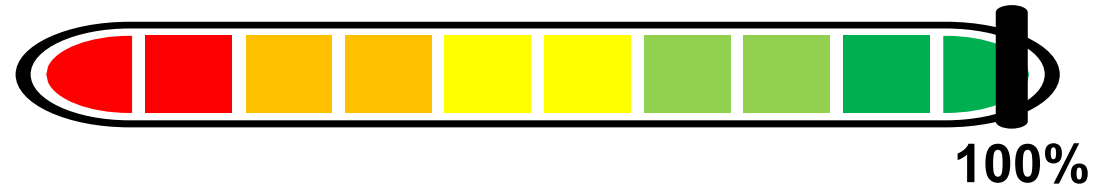
Revisions



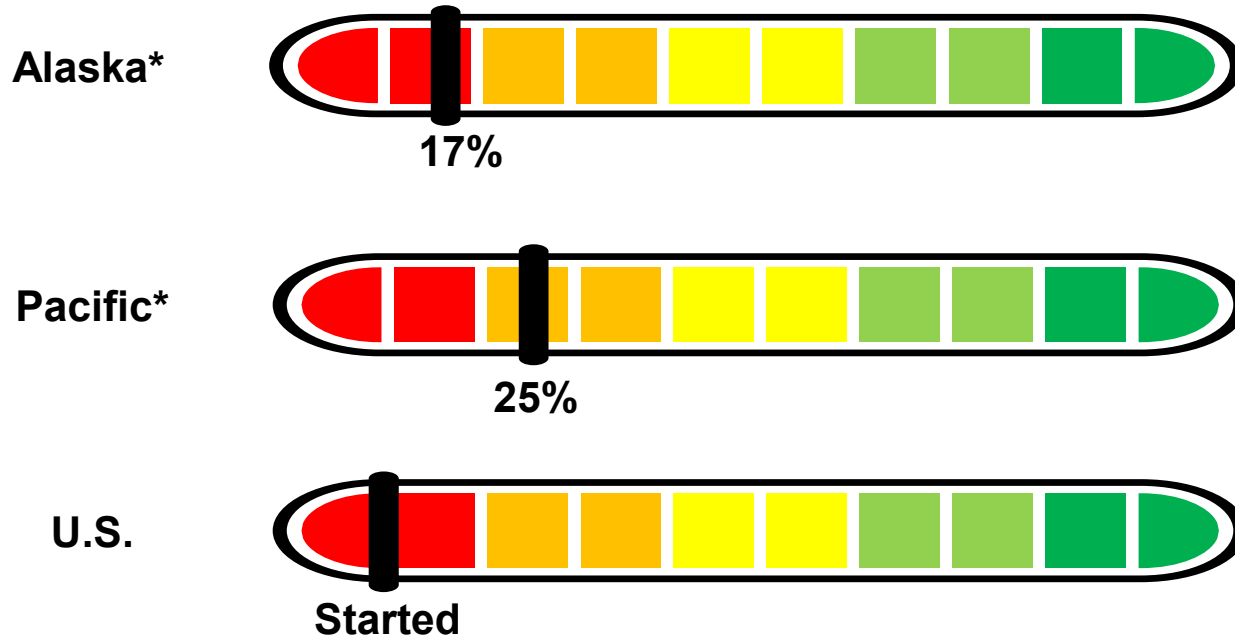
Removals



Additions



Phase III - Chart Supplement Reorganization



* Reflects progress made only on the topics submitted through the Alaska and Pacific Chart Supplement Workgroups recommendations from 2022.

IAC 8 Overhaul

Current Phase



Phase 1 – IAC 8
U.S.
(Current State)

Phase 2 – IAC 8
Reorganization
(TBD)



New IAC 8 Structure

Old Structure

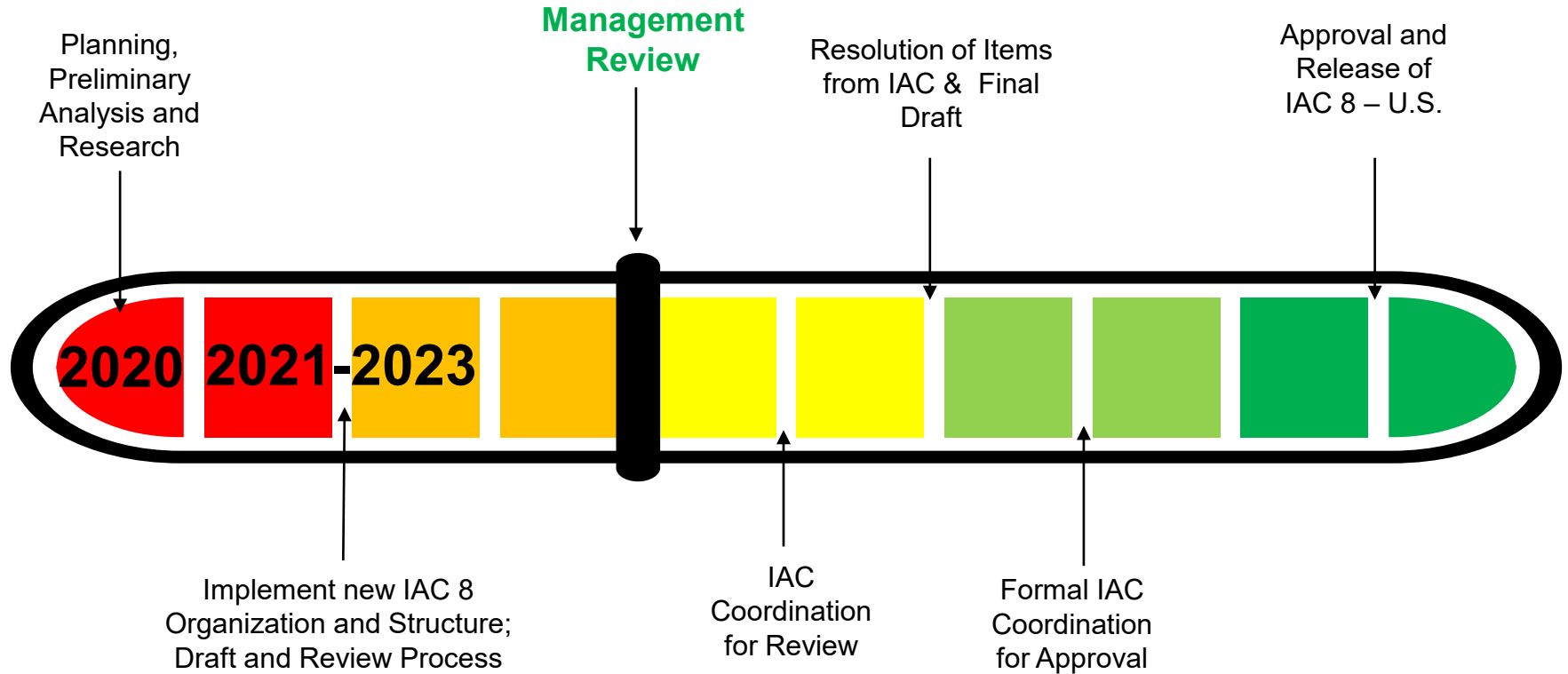
- Chapter 1 – General
- Chapter 2 – Layout and Format
- Chapter 3 – Content
Primarily provide specs for A/FD portion and a few items that make up content after the A/FD
- Appendices

New Structure

- Chapter 1 – General
- Chapter 2 – Layout and Format
- Chapter 3 – Content
- Chapter 4 – Airport/Facility Directory Legend
- Chapter 5 – Airport/Facility Directory Content
- Chapter 6 – Notices and Associated Data
- Chapter 7 – Airport Diagrams
- Chapter 8 – Alaska Chart Supplement
- Chapter 9 – Pacific Chart Supplement
- Appendices



Phase 1 – IAC 8 U.S. - Overhaul – Current State



Projected Timeline

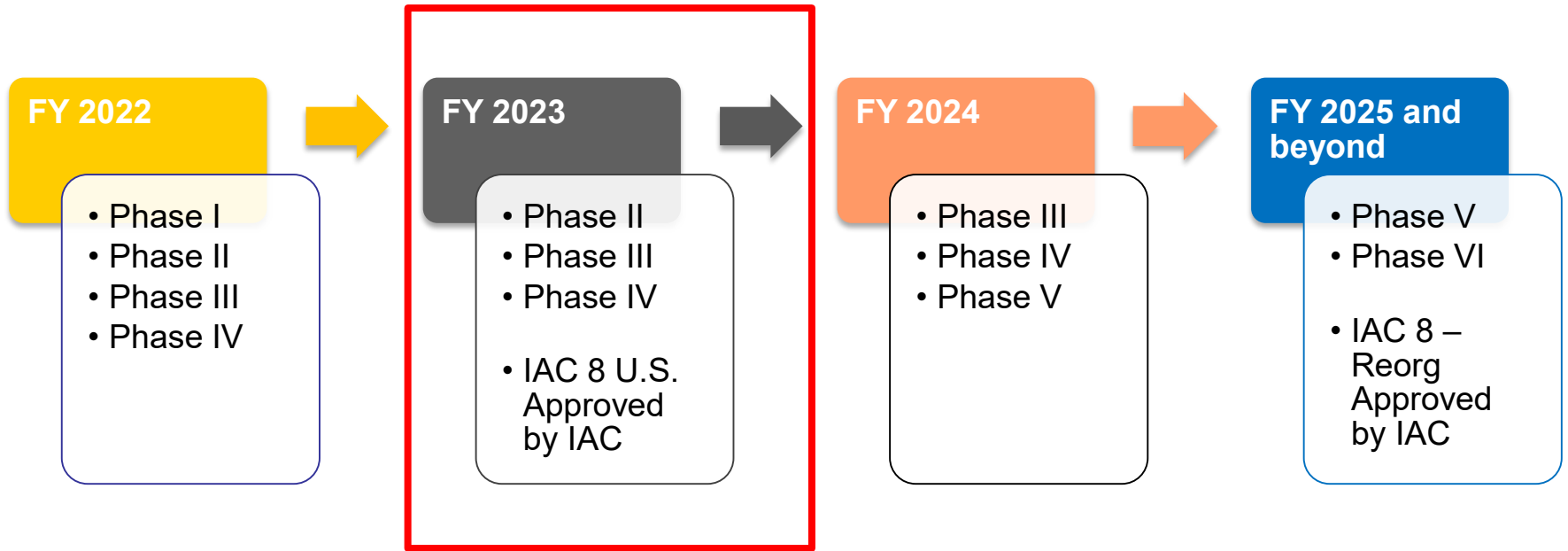


Chart Supplement A/FD Data Point Analysis

- **Objective:**
 - To identify data handled by automation or manually entry
 - Identify opportunities to improve automation
 - Results of analysis to be used to expand and enhance current automated methods
- **Analysis used to identify unique data points in the A/FD and catalogue:**
 - Sourcing
 - Automation methods
 - How data is applied to product
- **Status**
 - Data Study Completed - 14 April 2023; Results currently under review.
 - Automation Enhancement Plan - TBD



New Chart Supplement Order (7000 Series)

Purpose of This Order.

- This order establishes the responsibilities and requirements for submissions, revisions, or removals of Chart Supplement Publication Notices.

Status: Internal Draft Stage within AJV-A24



Chart Supplement Definition Updates

- Upon review of the AIM, P/CG and various FAA Orders, the Chart Supplement was defined as pilot manual instead of a supplement to FAA Charting Products
- March 2023 Submitted Changes to the following:
 - AJV-P Publications: AIM, P/CG, and AIP
 - AJV-P Orders: 7110.65, 7210.3, 7110.10, 7400.2, and 7930.2
- AIM and P/CG are on track for 21 March 2024 release

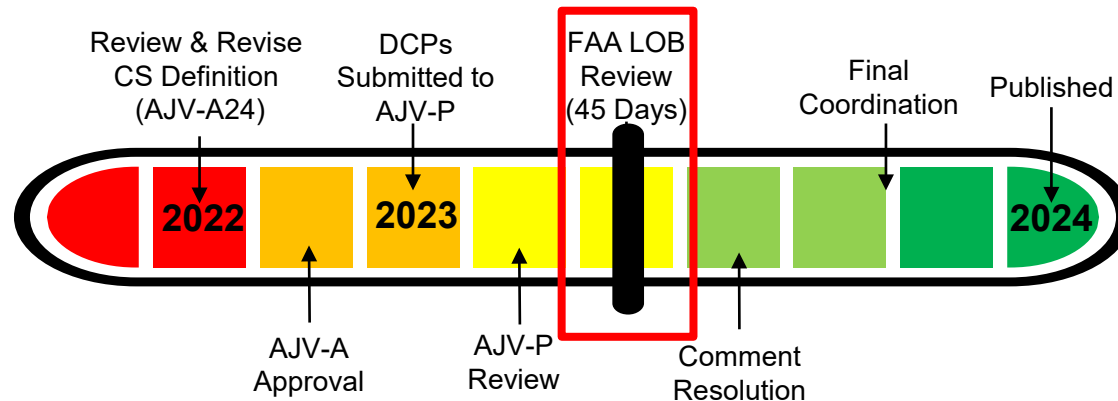


Chart Supplement Reorganization Summary of Proposed Changes

1. Simplify and consolidate the Notices, Procedures and Emergency Procedures sections into a Notices section organized by Area, General and Military.
2. Associated Data section would remain as is (NO CHANGE).
3. Proposals for new organization of Area Notices to be presented at next ACM in October 2023.
4. Stakeholder Engagement to the 9-AWA-AJV-A2-Apt-MapTeam@faa.gov with comment period of two weeks from when the ACM-CG minutes are posted.



Chart Supplement Reorganization – Current

U.S.

- General Information
- Section 1: Airport/Facility Directory Legend
- Section 2: Airport/Facility Directory
- Section 3: Notices
 - Special Notices
 - Regulatory Notices
- Section 4: Associated Data
- Section 5: Airport Diagrams

Alaska

- General Information
- Section 1: Airport/Facility Directory Legend
- Section 2: Airport/Facility Directory
- Section 3: Notices
 - Special Notices
 - General Notices
 - Area Notices
 - Regulatory Notices
- Section 4: Associated Data
- Section 5: Procedures
- Section 6: Emergency Procedures
- Section 7: Airport Diagrams

Pacific

- General Information
- Section 1: Airport/Facility Directory Legend
- Section 2: Airport/Facility Directory
- Section 3: Notices
 - Special Notices
 - General Notices
 - Area Notices
- Section 4: Associated Data
- Section 5: Procedures
- Section 6: Emergency Procedures
- Section 7: Terminal Procedures



Chart Supplement Reorganization – Proposed

U.S.

- General Information
- Section 1: Airport/Facility Directory Legend
- Section 2: Airport/Facility Directory
- Section 3: Notices
 - Area
 - General
 - Military
- Section 4: Associated Data
- Section 5: Airport Diagrams

Alaska

- General Information
- Section 1: Airport/Facility Directory Legend
- Section 2: Airport/Facility Directory
- Section 3: Notices
 - Area
 - General
 - Military
- Section 4: Associated Data
- ~~Section 5: Procedures~~
- ~~Section 6: Emergency Procedures~~
- Section 5: Airport Diagrams

Pacific

- General Information
- Section 1: Airport/Facility Directory Legend
- Section 2: Airport/Facility Directory
- Section 3: Notices
 - Area
 - General
 - Military
- Section 4: Associated Data
- ~~Section 5: Procedures~~
- ~~Section 6: Emergency Procedures~~
- Section 5: Terminal Procedures

- Sections 5 and 6 For Alaska and Pacific to be reorganized into Section 3.
- Regulatory Section will be reorganized into Section 3 either under Area or General Notice



Chart Supplement Reorganization – Proposed

U.S.

Section 4: Associated Data

- FAA Telephone Numbers & NWS
- Flight Service Station Communication Frequencies
- VOR Receiver Checkpoints and VOR Test Facilities
- Parachute Jumping Areas
- Supplemental Communication Reference
- Preferred IFR Routes
- Tower Enroute Control Routes (*NE, SC, SW Only*)
- North American Routes (*NE Only*)
- Minimum Operational Network (MON) Airport Listing

Alaska

Section 4: Associated Data

- FAA Telephone Numbers & NWS
- NWS Upper Air Observing Stations
- Flight Service Station Communication Frequencies
- VOR Receiver Checkpoints and VOR Test Facilities
- Parachute Jumping Areas
- Radio Navaids by Identification
- Airports By ICAO Location Indicator
- Marine Radio Beacons
- Alaskan Forces Radio Network Stations (AFRN)
- Special Use Airspace Information Service Site Locations (SUAIS)
- ICAO International Phonetic Alphabet/Morse Code

Pacific

Section 4: Associated Data

- ICAO International Phonetic Alphabet/Morse Code
- Radio Navigational Aids By Identifier
- VOR Receiver Checkpoints and VOR Test Facilities
- Parachute Jumping Areas
- Special Use Airspace
- Key to Aerodrome Forecast (TAF) and Aviation Routine Weather Report (METAR) (*PAC Only*)
- Flight Service Stations & National Weather Service Offices
- Hot Spots (*PAC Only*)



Definitions of Notices

Definitions and high level structure for external feedback (AIS)

A. Notices-Textual and graphical information submitted to supplement IFR and VFR operations

1. **Area Notices** – Notices pertaining to a specific facility or facilities. Areas notices covering multiple facilities may be listed if sponsored by controlling facility. IAC specification will maintain a listing of specific types of Area Notices (i.e., Acrobatic, Noise, Advisories, Hazards, Laser, Part 93 Procedures (AK) etc.).
2. **General Notices** – Notices that refer to general aviation without a specific facility. Listing may also include multiple facility notice without a controlling facility. IAC specification will maintain a listing of specific types of General Notices (i.e., Firefighting, Landing Restrictions, Traffic Advisories, etc.).
3. **Military Notices** – Notices submitted by authorized DOD proponents to notify civilian and military chart users of military activities. IAC specification will maintain a listing of specific types of Military Notices.



Definitions of Associated Data & Airport Diagrams

Definitions and high level structure for external feedback (AIS)

B. Associated data – Tables and lists of structured information most generally used to supplement communication and operations.

1. Associated data IAC specification will maintain a listing of specific types of General Notices (i.e., Telephone numbers, communication, MON, ATC, Hot Spots, etc.). Listing will be Alphabetical by type of Notice.

C. Airport Diagrams – Graphical airport depictions designed to assist in planning and ground movement activities

1. Airport diagrams. Determined by IAC specification. Listing will be Alphabetical (state, city) by facility
2. Terminal procedures with airport diagrams (PAC only). Determined by IAC specification. Listing will be Alphabetical (state, city) by facility

Looking Ahead

- Work on **Phase II** is anticipated to wrap up by the Summer of 2023
- Work will start on **Phase III – The Reorganization Phase**
 - Key Shared Topics include work on defining Scope and Purpose (U.S., AK, & PAC)
 - Deliberations on the Reorganization of backmatter section
- Preliminary Work has started on **Phase IV – CS Backmatter Ownership**
 - As of today, 399 items identified to establish OPR information
- Work to continue drafting of new FAA Order for Chart Supplement
- Anticipate submission of Overhauled IAC 8 – U.S. to MPOC/IAC in 2023



Questions

