



Federal Aviation
Administration

Weather Requirements Service Estimated Timelines

Randy Bass: ANG-C6

May 1, 2024

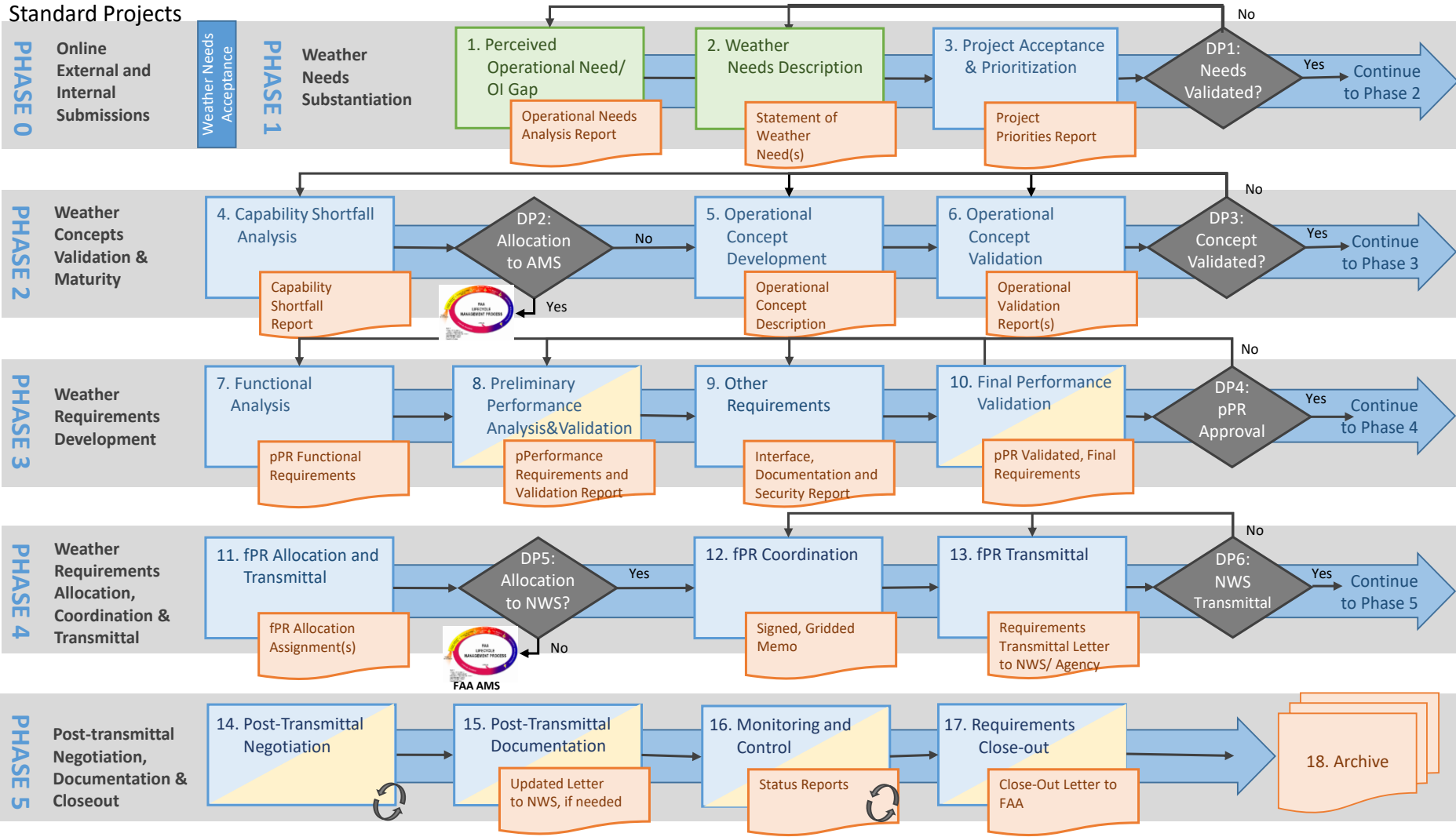




Outline

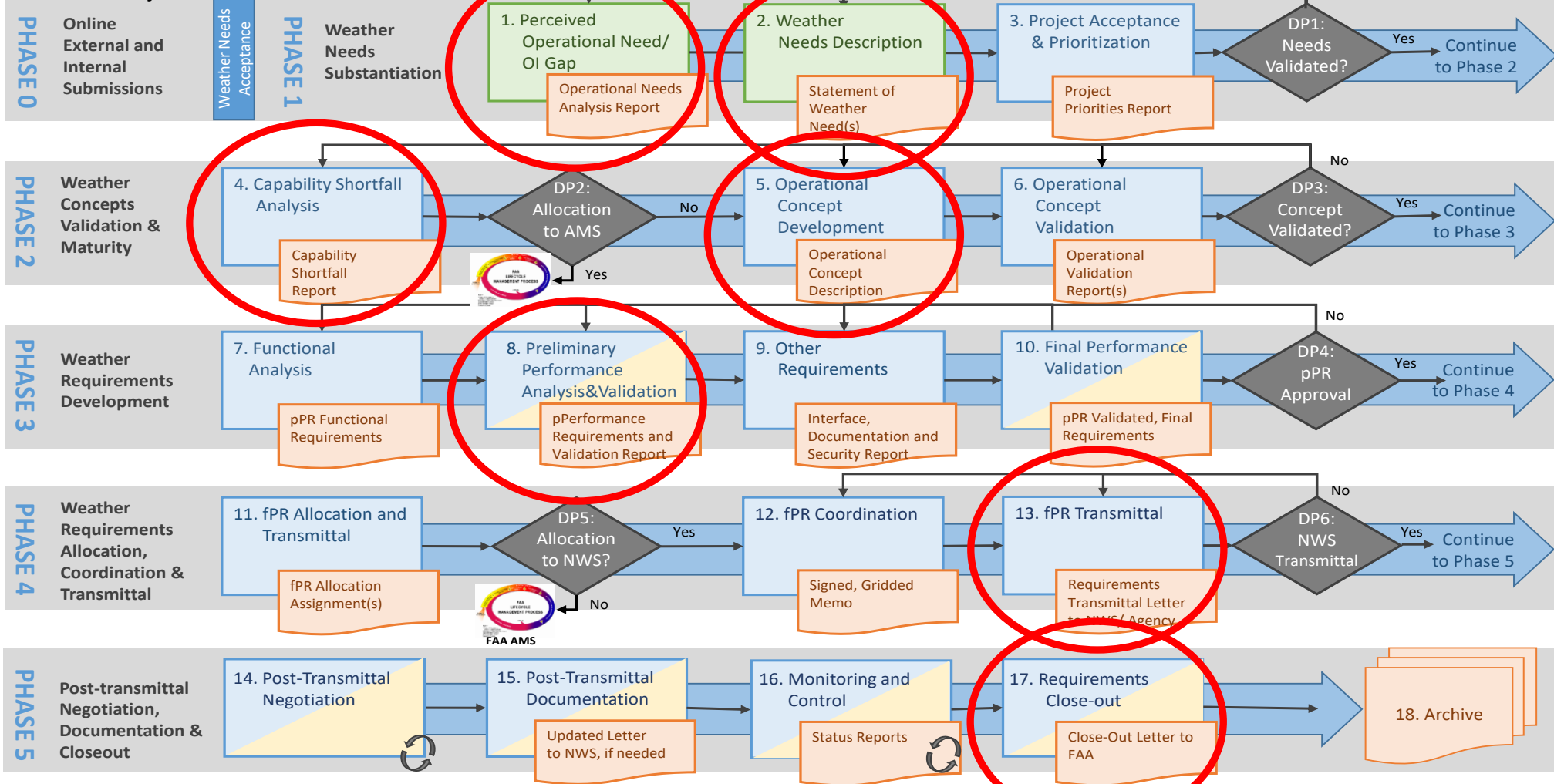
Requirements Process Overview
Individual efforts/Timelines

WRS Process Overview



WRS Process Overview

Standard Projects



Problem Statement Development

- Key to implementing any processes. There is no implied solution or cause.



- What do you need?
- What are you trying to accomplish?
- What can you not do because of this (safety or efficiency?)



AWD Requirements Process

The FAA Process Is Divided Into Five Main Phases:

1. Needs/Gap Analysis
2. Operational Concept & Use Description
3. Requirements Development & Validation
4. Formal Requirements Allocation & Transmittal
5. Post-Transmittal



Estimated timelines with many caveats!



- Needs Validation
6-8 months
- Timeline is affected by resources/funding and PLA schedule
- Article 50 process (if ATC is involved) may increase planning time
- Shortfall/Gap Analysis
4-6 months

- Operational Concept Development
4-6 months
- We are occasionally able to do this first
- Concept of Use
8-12 months

- Preliminary operational/functional requirements
6-8 months
- Testing/validation
12-24 months
- Final requirements
3-6 months

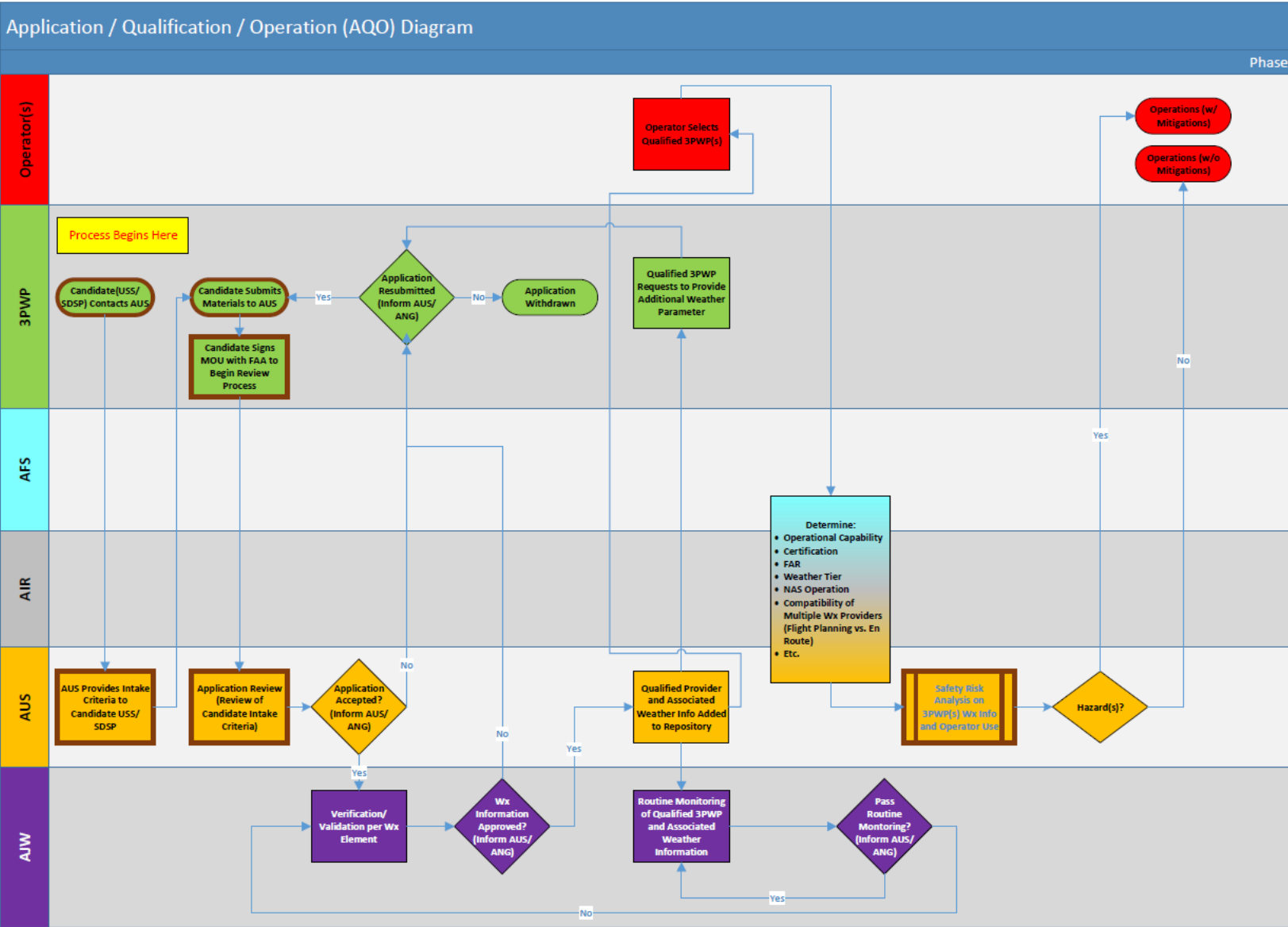
- Initial requirements transmittal
3-4 months
- Can vary widely based on partner agency/research coordination
- Final requirements
3-4 months

- Varies based on user needs

Total 48-72 months



Third Party Weather Providers (3PWP) Qualification



- Process by which a 3PWP submits an application for their data to be used and how that application flows through FAA LOBs
- Process expected to be complete and operational in the next 12-18 months.
- Many variables as to how long the qualification process will be including:
 - Complexity of data
 - Single vs. multiple types of weather
- Note – this is specifically for UAS operations. AAM needs will be addressed via coordination with AUS and considering ASTM Standards.

Post-Transmittal is heavily influenced on external partner timelines- i.e. the NWS

DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA

It all starts with a "Request"

Request – a generic term for any of the following:

- "Need"
- "Request"
- "Idea"
- "Opportunity"

Any such input is referred to as a **"Request"** until validated as a **Requirement** via the governance process.

Request Originator – The person or entity initiating a Request.

The Originator may be *Internal* within NWS, from another NOAA line office, or *External* (Partner, other organization or agency). Originators are expected to follow their requests through the process as an SME.

Other NOAA Line Offices may work with NWS/Science and Technology or other NWS Portfolio, **one of the 11 National Service Programs** (e.g., Aviation, Severe Weather, Climate, Water Resource) or associated Service Program Teams to coordinate a request on their behalf, supporting their proposed need/requirement.

NWS Partners present their requests via their NWS contact.

Example: FAA formal request letter to NWS via Aviation Services and Space Weather Services programs.

4

DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA

Process Steps - After Requirements are Validated

Validated Requirements are forwarded to the appropriate office/ portfolio for solution analysis, resource allocation, and execution.

Decisions include:

- Assign to Service Delivery Portfolio (i.e., Observations, Central Processing, Dissemination, Science and Technology Integration) for execution.
- Assign to Service Delivery Portfolio for Solution Analysis or Business Case Development.

NWS provides to the FAA:

- Status updates monthly on submitted requirements
- Formal notification (closeout letter) when requirement is met

13

Questions?

Brandon Smith – Manager, Policy and Requirements Branch

Brandon.smith@faa.gov

Rebecca Kotten – Weather Requirements Service Project Lead

Rebecca.e.kotten@faa.gov

