

ANG-C6 WX Requirements Process

Presented by Dr. William Bauman, Manager, Aviation Weather Division ANG-C6



Aviation Weather Division Organization

Develops weather and weather-related constraint information for ready integration into decisions by pilots, controllers, dispatchers, and airport operators

Coordinates and works with FAA operations, safety and standards organizations, NWS and commercial sector to improve and integrate weather information into operational aviation decision making

Bill Bauman

Weather Research Randy Bass

Aviation Weather
Research Program
Weather
Technology in the
Cockpit
Research for
Service Analyses

New Weather Concept
Development
Everette Whitfield

Contracts
Budget
Weather Forecast
Integration (WFI)
Aviation Weather
Integration
Safety Risk Management

Weather Engineering & Evaluation
Starr McGettigan

Aviation Weather
Demonstration and
Evaluation
Weather Observation
Integration (WOI)
NWP/CSS-Wx WP2

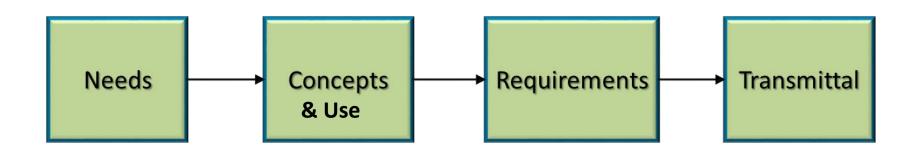
Policy & Requirements
Pat Murphy

International
Weather Translation
Requirements
Weather Information
Migration and
Transition (WIMAT)
FAA Weather Expert
Service

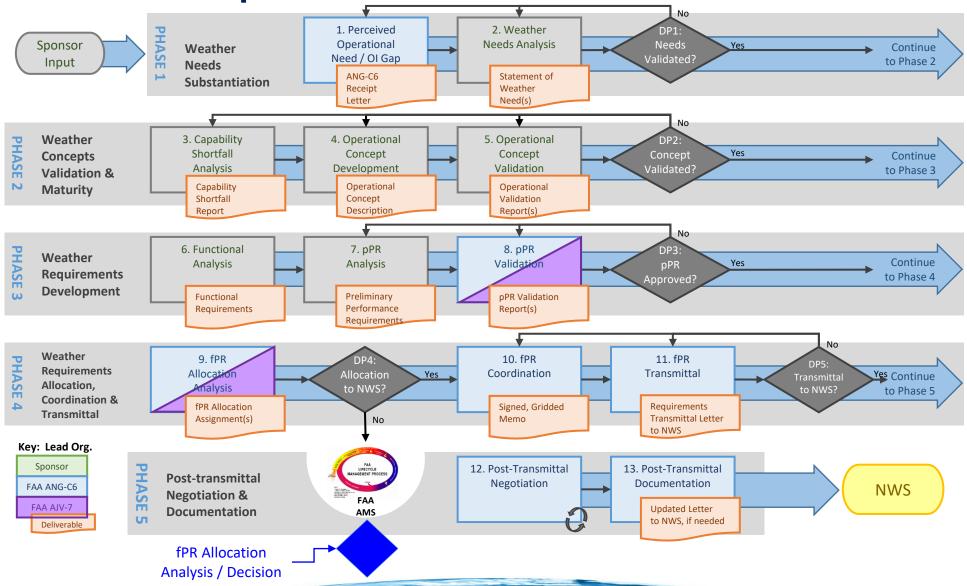
Aviation Weather Division Requirements Service

FAA process has four main phases:

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

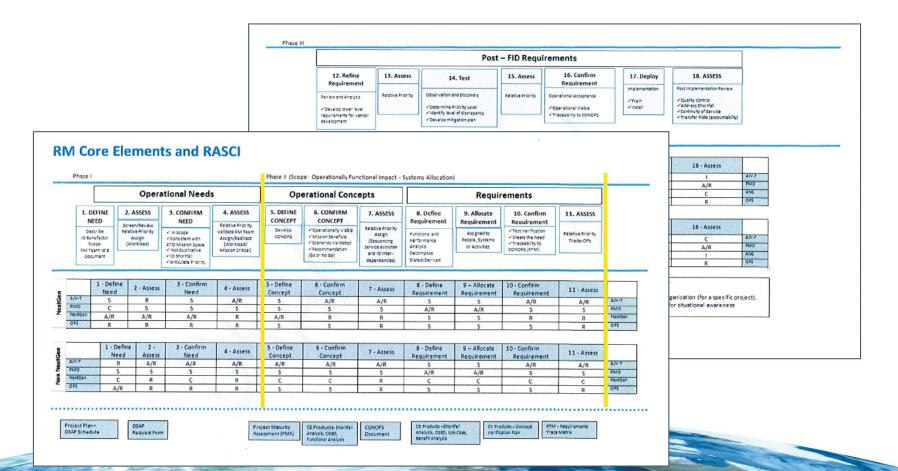


Weather Requirements Process

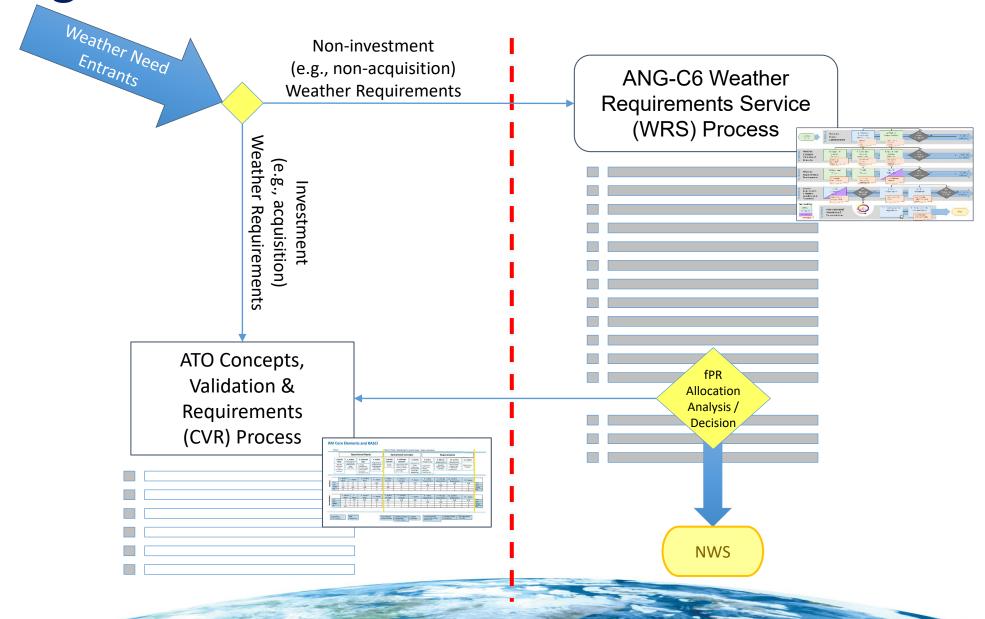


ATO Concepts, Validation & Requirements (CVR) Process

- FAA process to understand, confirm and prioritize Air Traffic Management/ Air Traffic Control operational needs and to ensure that NAS changes addressing those needs are sound and well timed
- AJV, AJM, ANG and ATO each play a role in the CVR Process



Alignment of Processes



Examples of Requirements Types

Investment (e.g., acquisition) Weather Requirements	Non-investment (e.g., non-acquisition) Weather Requirements	
NextGen MOC	FA Transition 'Requirements' (via ARWG)	 Alaska Terminal Forecast Guidance
NextGen FOC	CORE 30 TFM (via TRWG)	• TFM Convective Forecast (TCF)
 NAS Top-Level Targets 	 AWIPS Replacement for the Weather and Radar Processor (WARP) 	 Short Range Ensemble System (SREF)
• CoSPA	Collaborative Convective Forecast Product (CCFP) annual requirements	Canadian Radars (CanRad)
• CIWS/ITWS	 Aviation Weather Statement (AWS) Statement of Need 	 Canadian Terminals Added to AWWD
NWP/CSS-Wx	 Aviation Winter Weather Dashboard (AWWD) via CDM Weather Evaluation Team (WET) 	 Collaborative Aviation Weather Statement (CAWS) Preliminary Requirements
	2-8hr Convective Forecast	Alaska RAP Grid 83
	METAR Remarks (RMK)	• 25K Ceiling Observations
	Small Hail/Snow Pellets (GR/GS)	

Examples of Requirements Types

Aviation Weather Division Requirements Service is a repeatable process by which weather requirements are developed, validated, allocated, and transmitted to FAA or NWS

- 1. FAA Collaborative Sub-Process
- 2. NWS Collaborative Sub-Process

