

FAA Familiarization Briefing

Presented by: Kathryn Vernon

Regional Administrator
Northwest Mountain Region

Presented to: Oregon Congressional Staff

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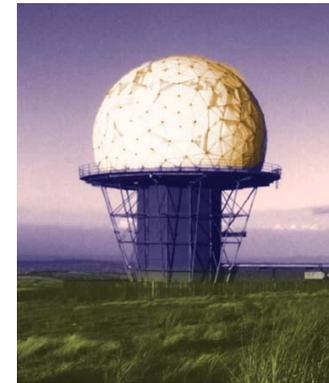
Federal Aviation
Administration



FAA Statistics

National

- **69,430 National Airspace System (NAS) Operational Facilities, including**
 - 24 Air Route Traffic Control Centers (ARTCCs)
 - 464 Airport Traffic Control Towers (ATCT)



FAA Statistics

National - continued

- **FY 15 – 15.8 billion dollar budget**
OPS 9.75B, F&E 2.60B, AIP 3.35B, RE&D 157M
- **Between 2013-2014 > 16.7 million US commercial flights transporting 1.3 billion passengers safely**
- **Provides services to the nation's aviation industry**
 - 12,000,000 jobs
 - \$1.5 trillion in annual economic activity
 - 5.4% of Gross Domestic Product



FAA Statistics

National - continued

To help the FAA and the aerospace system better prepare for the forecasted growth and future changes in the industry, Administrator Huerta has outlined four key strategic initiatives to meet America's growing reliance on air travel.

The initiatives are:

- Raising the bar on safety by proactively using safety management principles to make smarter, risk-based decisions throughout the agency and with industry and global stakeholders.
- Rebalancing existing services and modernizing our infrastructure including advancing NextGen, to reduce costs and become more efficient in the long run, as we safely integrate new types of users into the nation's airspace.
- Building on America's history of leadership in shaping international standards to continue to improve aviation safety and efficiency around the world.
- Attracting and developing the best and the brightest talent with the appropriate leadership and technical skills to undertake the transformation of America's national aviation system.



Nine Regions – Three Air Traffic Organization Service Areas (Western, Central, Eastern)

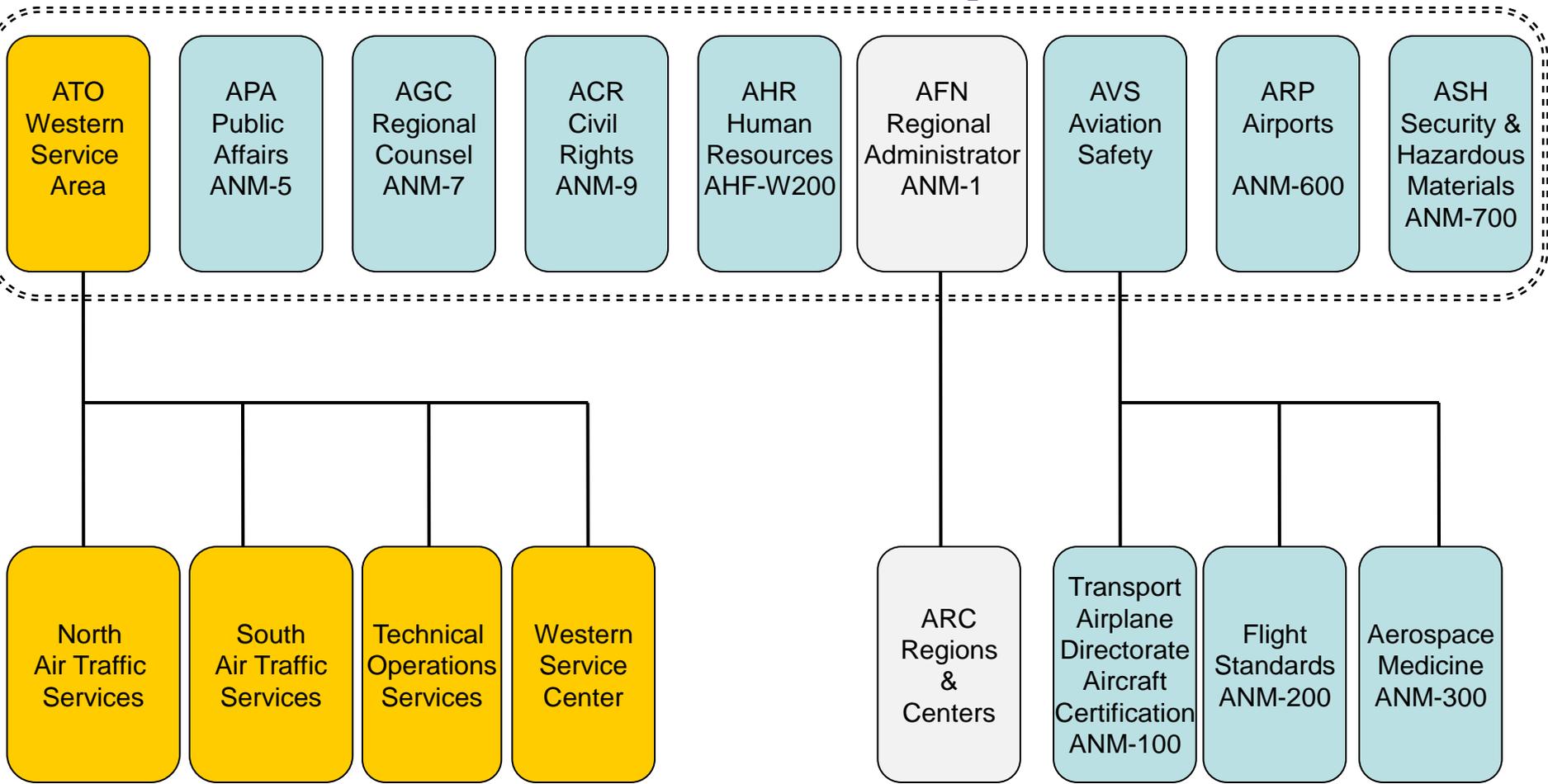


ANM Regional Administrator Kathryn Vernon

- **FAA Administrator's Presence in the Northwest Mountain Region**
 - Colorado, Idaho, Montana, Oregon, Utah, Washington, Wyoming
- **'Horizontal Integration'**
- **Congressional Outreach**
- **Emergency Response**
- **DOT**
 - OneDOT Meetings
 - Regional Emergency Transportation Coordinator (RETCO)
 - Regional Emergency Transportation Representative (RETREP)
- **Western Service Area Operations Center**
- **Aviation Community, State Aviation Officials, Industry**



Region and Service Center Relationships



ATO Operations Service Units

Air Traffic Services

- Provides separation between landing and departing aircraft
- Controls arrival streams to and departure streams from airports
- Controls, separates, and sequences en route air traffic within designated airspace, along airways, and over oceanic routes
- Gives aircraft instructions, clearances, and advice regarding flight conditions while en route between airports



System Operations

- Provides real time traffic flow management for the National Airspace System (NAS)
- National guidance for air traffic procedures and airspace issues
- Weather observation
- DoD & Homeland Security interface
- Customer interface



Technical Operations

- Manages and maintains the NAS infrastructure:
 - Navigation
 - Surveillance
 - Communications
 - Environmental
 - Weather
 - Automation
 - Telecommunications & Data Networks

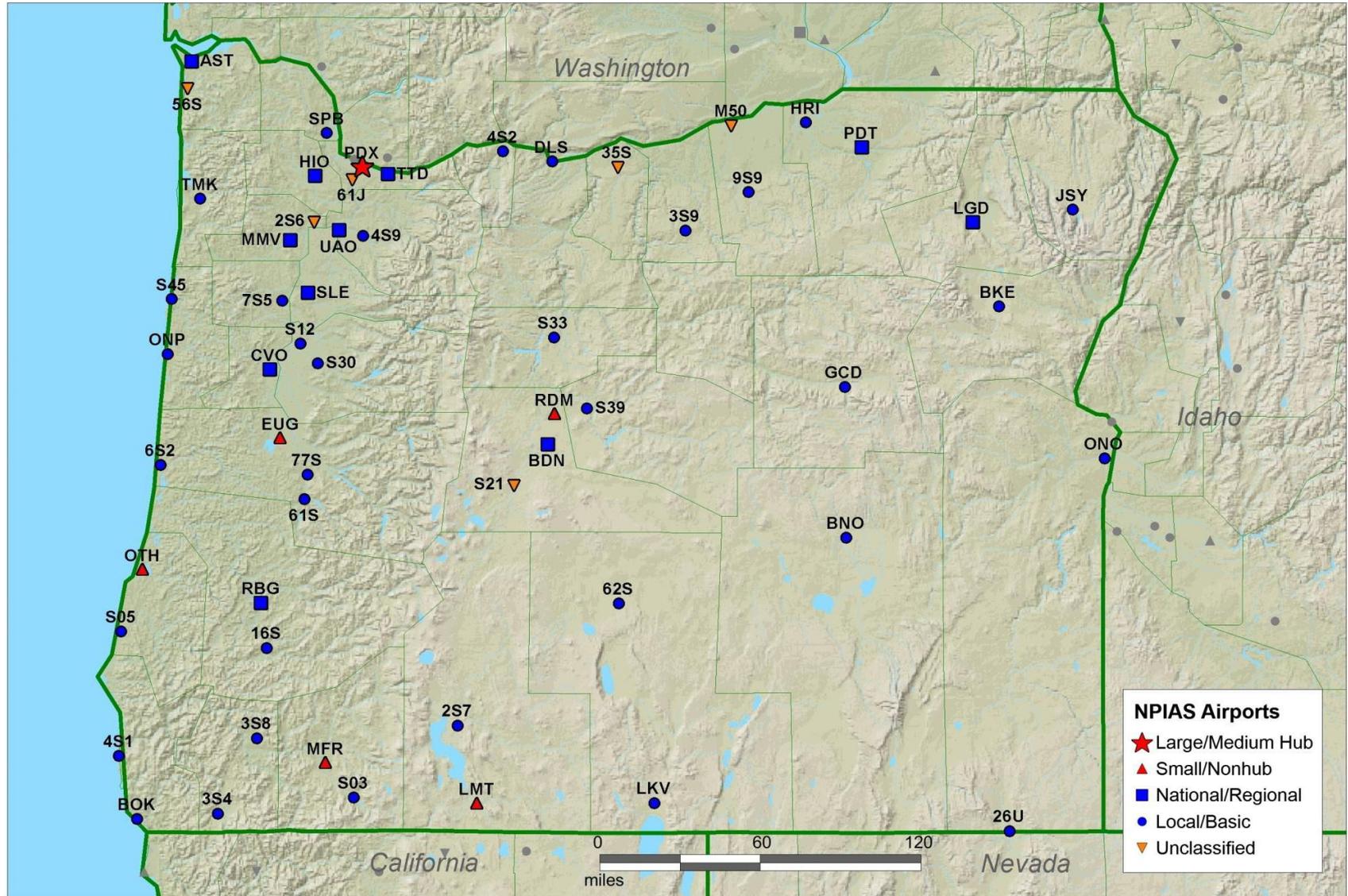


Airports Division

- **Certify Airport Safety**
 - Federal Aviation Regulation (FAR) Part 139
 - Airports w/ Scheduled Passenger Service
 - Annual Inspections
- **Administer Airport Improvement Program (AIP)**
 - Grants for Planning, Environmental, Safety & Airport Development
 - Typical Issues:
 - Compliance (money comes with strings)
 - Planning (How to prepare my airport for future demand?)
 - Safety Standards (Why do we need to meet Federal Standards?)
 - Noise Complaints (refer specific complaints to Airport Operator)



Oregon



http://www.faa.gov/airports/planning_capacity/npias/reports/

Appendix B



Federal Aviation Administration

Flight Procedures Office

- The FPO develops instrument flight procedures that allow aircraft to land and depart safely in poor weather.
- Existing Old Technology: Equipment on the ground providing signals to pilots and aircraft.
- Transitioning NOW to NextGen: Satellite and equipment in the aircraft guiding pilots and aircraft.
- Performance-Based Navigation (PBN) is a large part of NextGen.
- PBN provides automated flight paths using:
 - Area Navigation (RNAV) and
 - Required Navigation Performance (RNP).
- RNAV and RNP improve safety and efficiency, improving capacity and reducing noise exposure, fuel burn and greenhouse gas emissions.
- RNAV specifies the routes, while RNP specifies the performance criteria.



Flight Procedures Office

- **RNAV** operations remove the requirement for a direct link between aircraft navigation and a NAVAID, thereby allowing aircraft better access and permitting flexibility of point-to-point operations.
 - LNAV (Lateral Navigation)
 - LNAV/VNAV (Lateral Navigation/Vertical Navigation)
 - LPV (Localizer Performance with Vertical Guidance)
- **RNP** operations introduce the requirement for onboard performance monitoring and alerting. This onboard monitoring and alerting capability enhances the pilot's situational awareness and can enable closer route spacing without intervention by air traffic control (ATC).



Flight Standards Division

Headquarters Sets Policy

Field Divisions Execute Programs

We have over 450 aviation safety inspectors, administrative support staff and managers that accomplish our work.

Our field force includes:

- Seven Flight Standards District Offices
- Three Certificate Management Offices (for major airlines)
- The FAA Safety Team (FAASTeam)
- Two Aircraft Evaluation Groups (the interface between Flight Standards and Aircraft Certification)



Flight Standards Division

continued

Our Flight Standards Division certifies and oversees:

- Air carriers (airlines and air taxis) and air operators (such as agricultural operators and helicopter external load operators)
- Repair stations, pilot schools, simulator training facilities and mechanic schools
- Individual airmen (pilots, mechanics, designees)
- Enforcement



Transport Airplane Directorate

Responsible for:

- Developing regulations and policy for transport category airplanes
- Working with other FAA offices in issuing design approvals to manufacturers (e.g., Boeing) for transport category airplanes
- Validating non-U.S. manufactured transport airplanes (e.g., Airbus)
- Issuing production and airworthiness approvals for all products produced in an 11 state region



Transport Airplane Directorate

Continued

- Support the National Transportation Safety Board in accident investigations and respond to safety recommendations
- Take action when unsafe conditions are found:
 - Mandate corrective action through airworthiness directives
 - Revise and/or issue new regulations/policy
 - Rework/revisions prior to airplane delivery
 - Levy compliance and enforcement actions



Aerospace Medicine

Headquarters Sets Policy

The Regions Execute Programs

We currently have 19 employees that report to the Regional Flight Surgeon.
We have 3 employees that report to headquarters.

Our regional programs include:

- The Airman Medical Certification Program
- The Air Traffic Health Program
- The Aviation Medical Examiner Program
- The Airman Education Program
- The (Internal) Substance Abuse Program
- The (External) Drug Abatement Program



Human Resources Office

FY 2015 – 4,176 employees in the region

Colorado 1064

Idaho 104

Montana 144

Oregon 268

Utah 622

Washington 1,927

Wyoming 47

(As of January 14, 2015)

Provide HR support in:

- Employment & Compensation
- Employee Benefits
- Employee Relations
- Labor Relations
- HR Information Systems



Security and Hazardous Materials Safety

Major Program Areas

- **Hazardous Materials**
 - Compliance, Enforcement, and Outreach
 - Incorporating Safety Management System principles
- **Internal Security**
 - Assesses FAA facility compliance with Facility Security Management Program
 - Establishes Physical Security Criteria for FAA-owned and Leased Facilities
 - Manages Classified Information/COMSEC programs
- **Investigations**
 - Investigates Allegations of Misconduct and provides Computer Forensics
 - Law Enforcement liaison for the FAA
 - Close interaction with DOT Inspector General's office
- **Personnel Security**
 - Initiates and adjudicates all Federal Employee and Contractor Background Investigations and Re-investigations
 - Issues security clearances to FAA personnel
- **Homeland Security Presidential Directive-12**
 - Leads Deployment of the Personal Identity Verification (PIV) ID Card



Projects and Issues

- **Unmanned Aircraft Systems (UAS)**
- **NextGen Projects**
- **FY15 Budget**
- **Other?**

