

# Flight Technologies and Procedures Division

## Overview

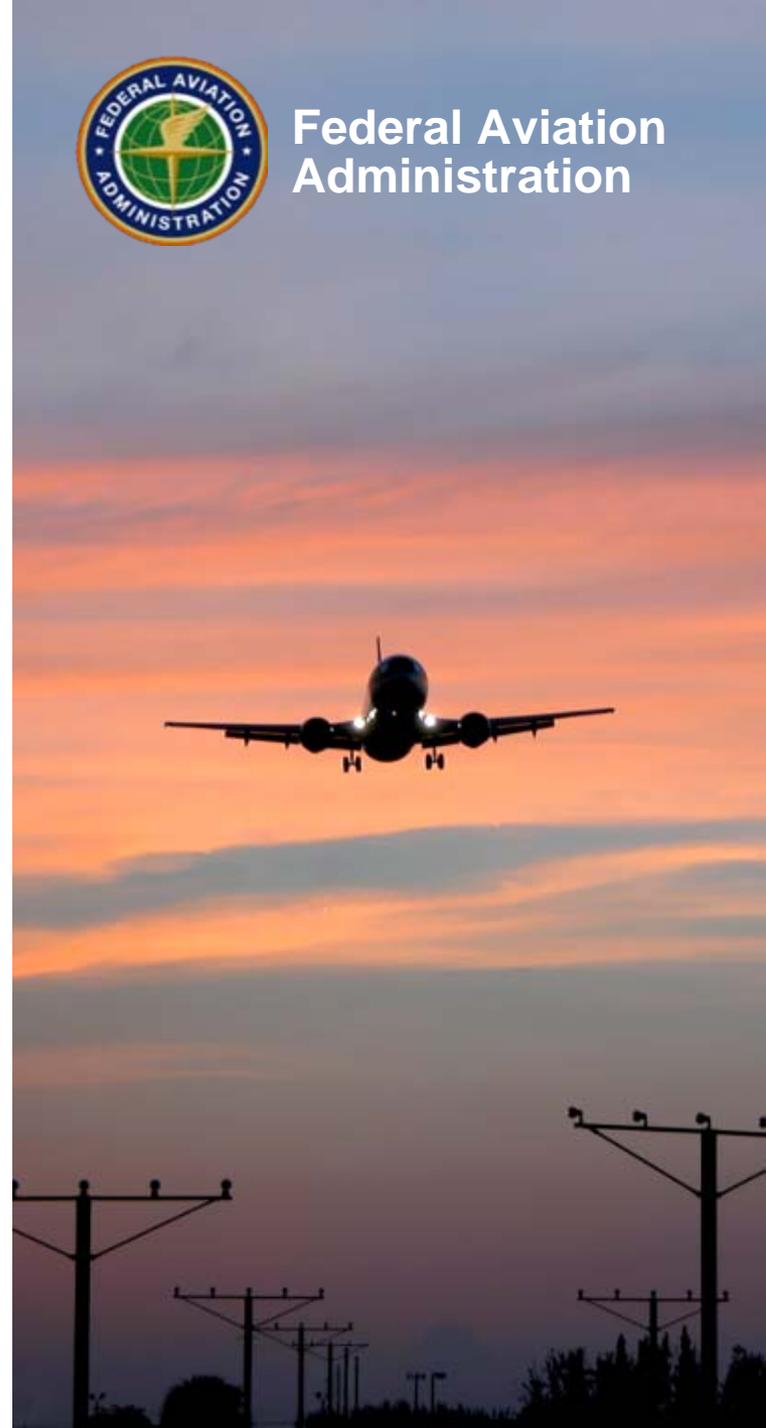
Presented to: New Technology Workshop

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Acting Division Manager, AFS-400

Date: June 6, 2012



Federal Aviation  
Administration



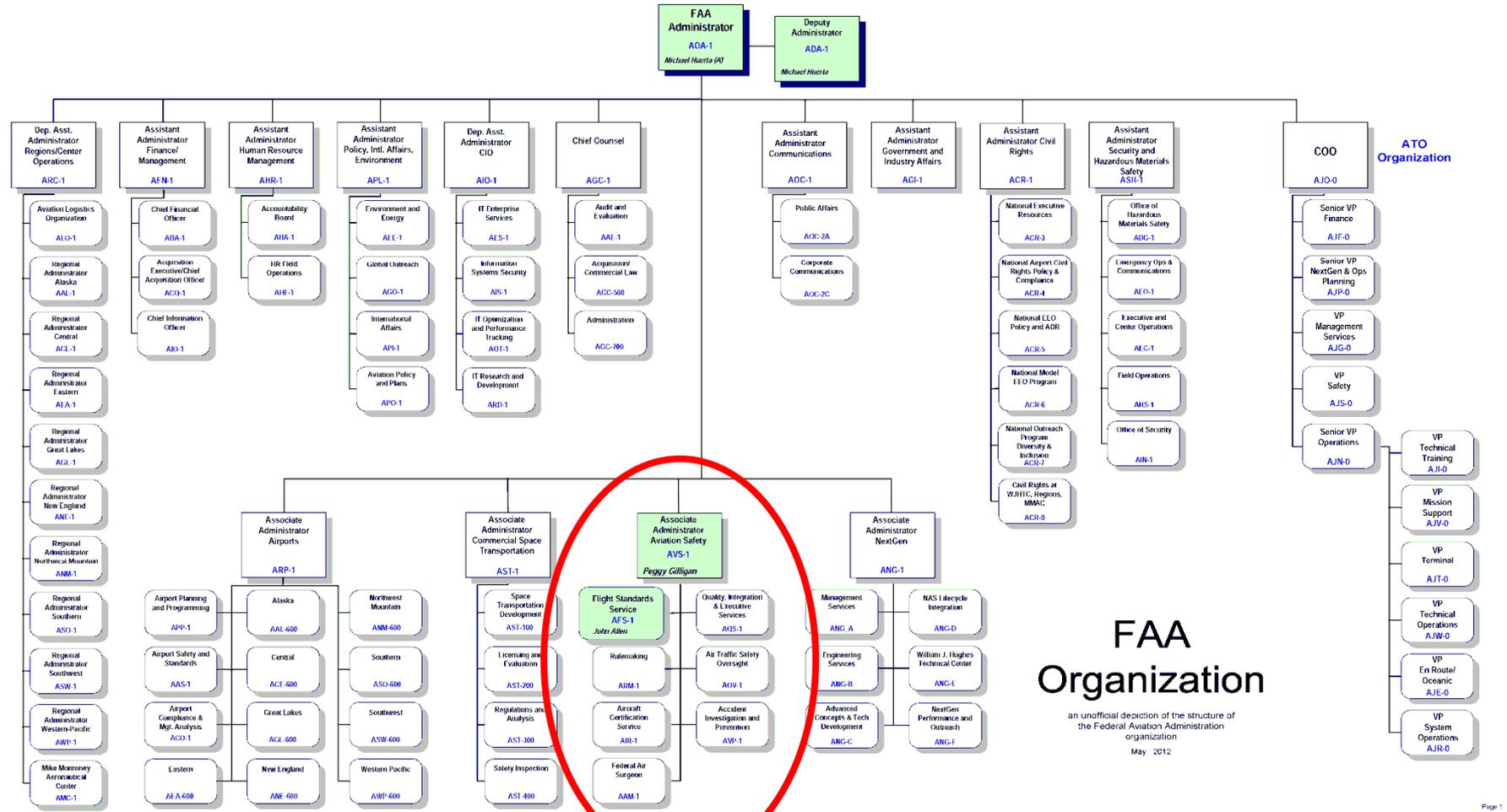
# Overview

- **Organizational Structure**
  - Flight Technologies (AFS) and Procedures Division Overview
- **AFS Role in Next Generation Air Transportation System (NextGen)**
- **Questions**



# FAA Organizational Chart

Federal Aviation Administration Organization



**FAA Organization**

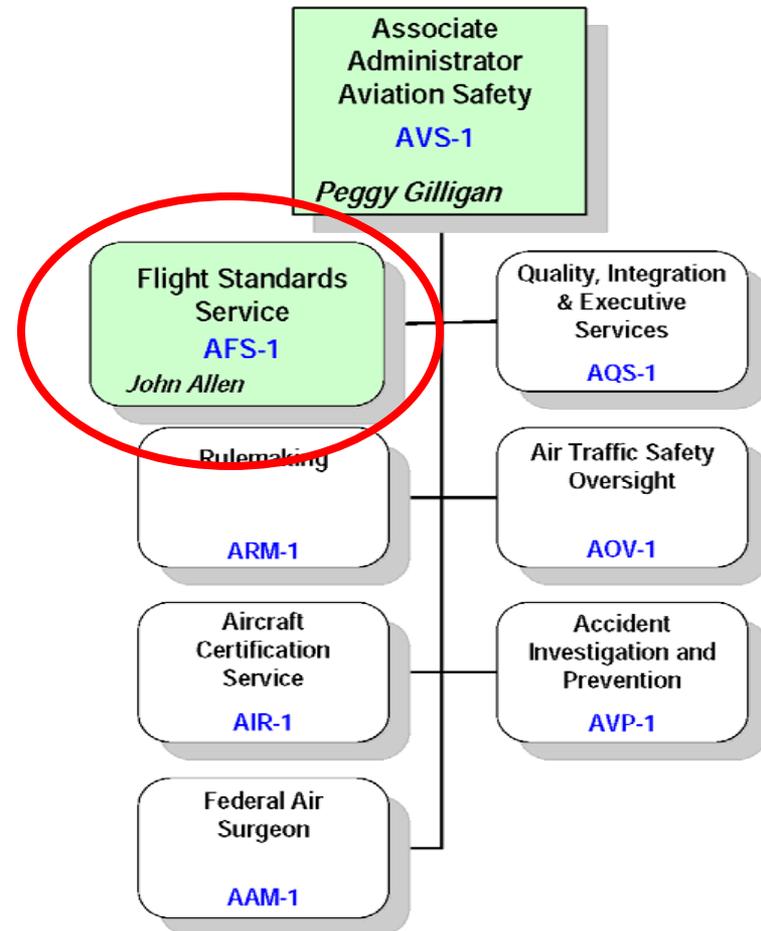
an unofficial depiction of the structure of the Federal Aviation Administration organization  
May 2012

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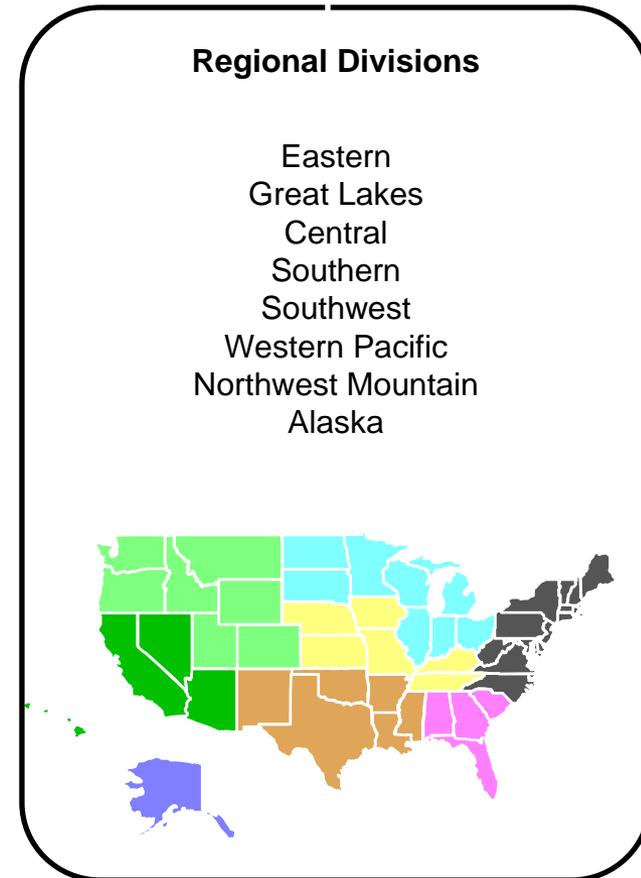
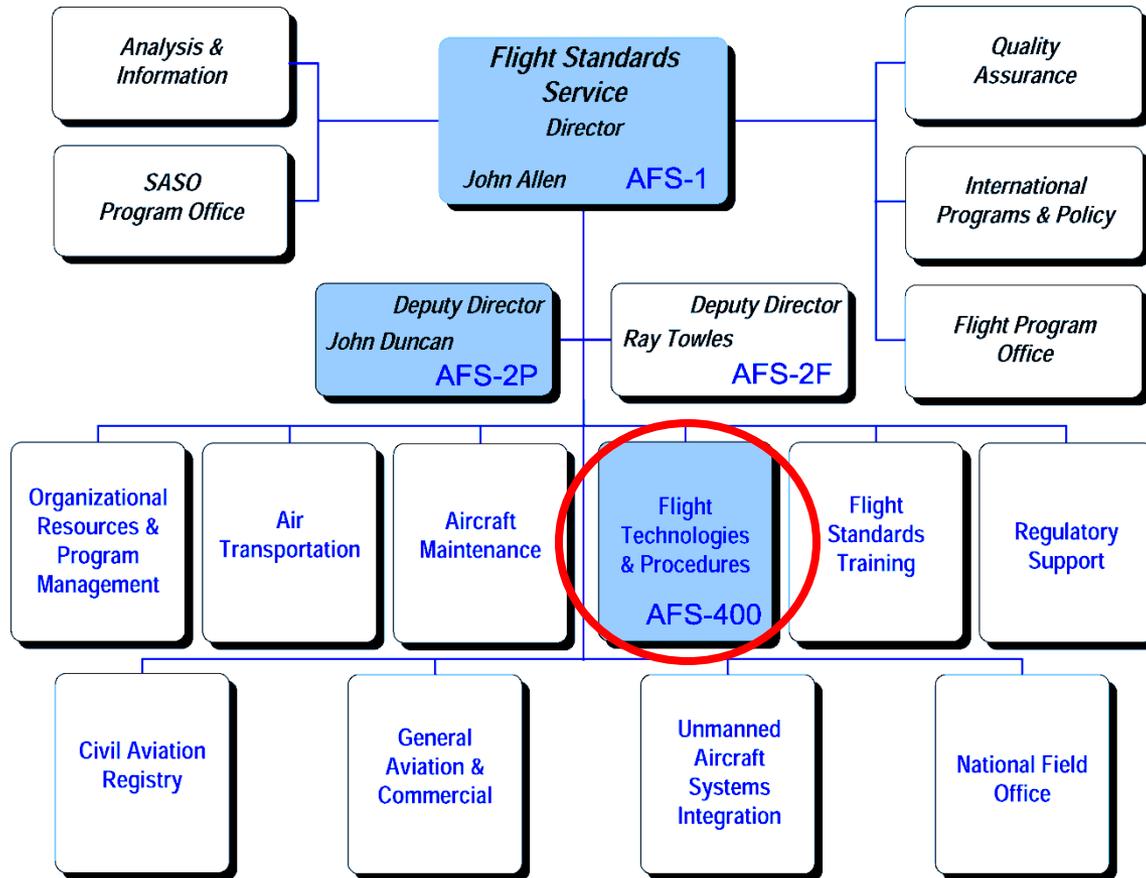


# Aviation Safety Organizational Chart

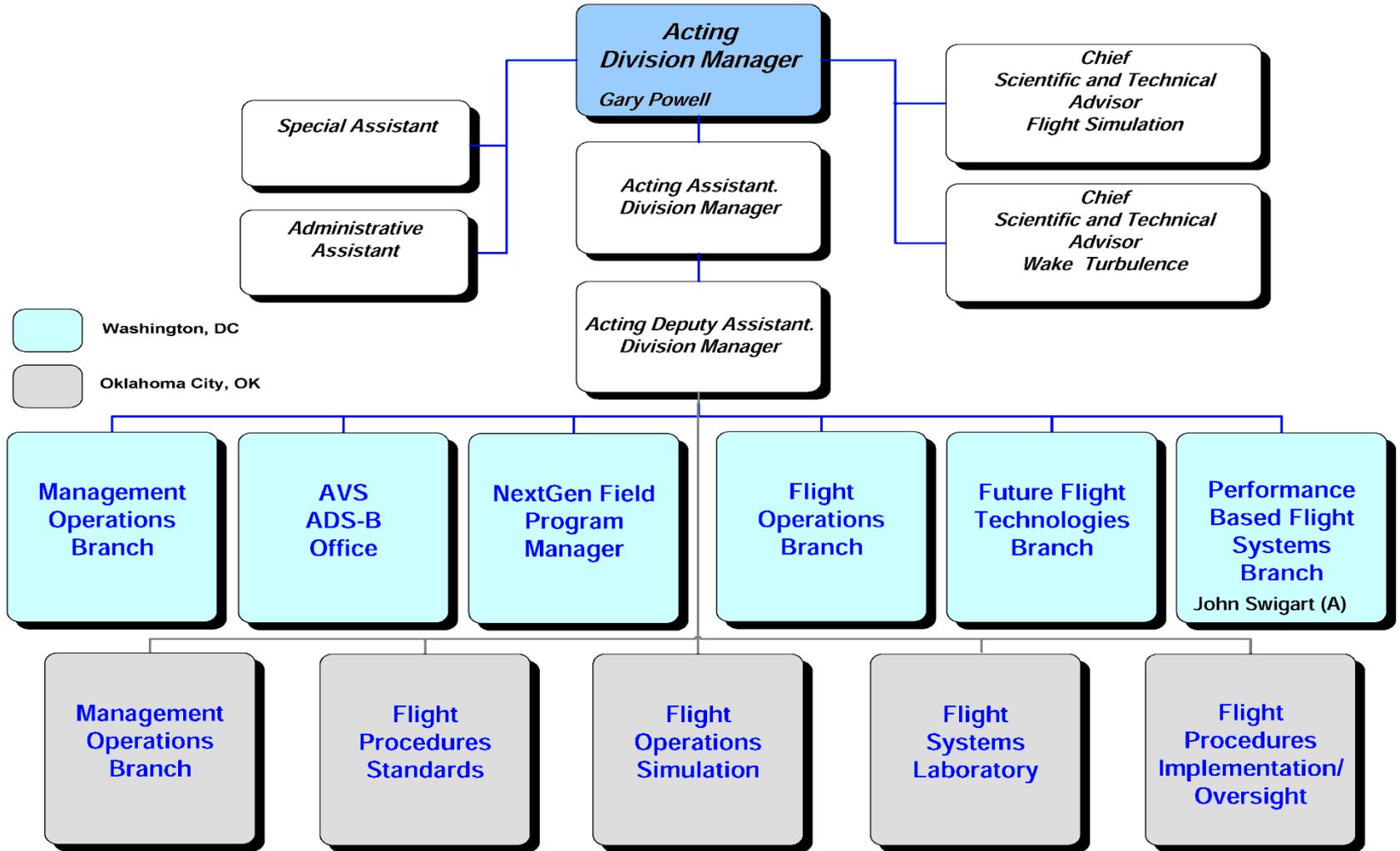
- **Aviation Safety**
  - Flight Standards
  - Aircraft Certification
  - Rulemaking
  - Medical
  - Air Traffic Oversight
  - Accident Investigation and Prevention



# Flight Standards Organizational Chart

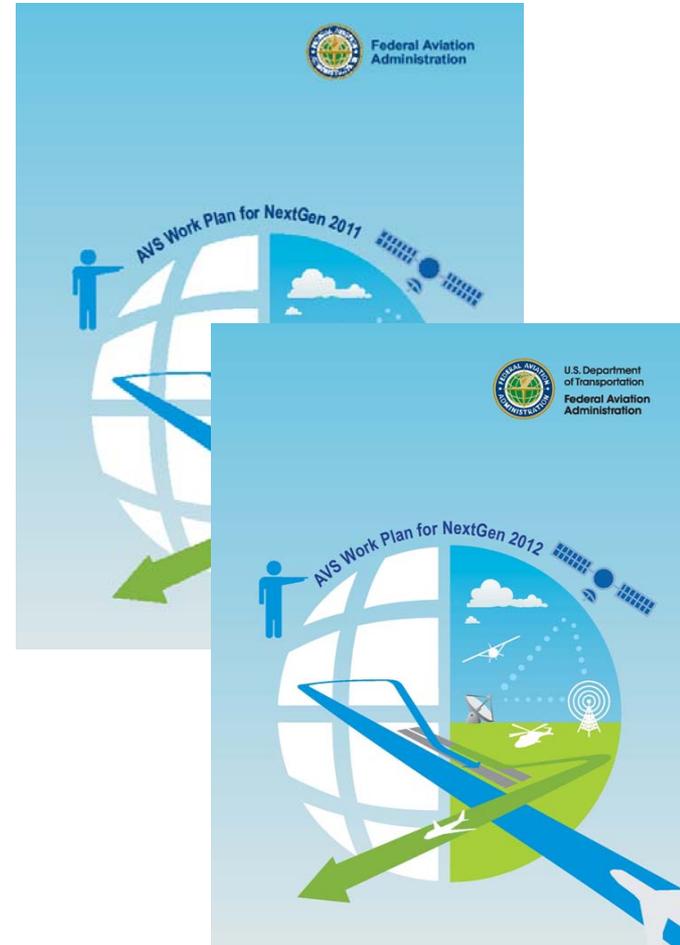


# AFS-400 Organizational Chart



# Aviation Safety (AVS) Work Plan

- **Focuses on AVS-specific responsibilities and deliverables**
- **Identifies**
  - Plan for Standards
  - Streamlining Activities
  - AVS Support Activities to NextGen Program
  - AVS Organization for NextGen
- **Updated annually**



# AFS-400 Roles

- **Enable NextGen technology implementation**
  - **Develop:**
    - Flight procedures and new technology regulations, policy, and training requirements
    - Standards for communications, navigation, and surveillance (CNS)
  - **Responsible for:**
    - Flight procedures implementation and oversight
    - International standards, recommended practices, and harmonization
  - **Conduct research, development, and safety analysis**

# AFS-400 Talent

**Besides the Aviation Safety Inspectors you expect to see in Flight Standards, AFS-400 has:**

- Aeronautical Engineers
- Air Traffic Controllers
- Electrical Engineers
- Engineering Psychologists
- Flight Test Engineers/Pilots
- Mathematicians
- Program Analysts
- Financial Specialists
- Programmers
- Operations Research Analysts
- Simulator Engineers
- Statisticians
- Stochastic Modelers
- Test Directors/Pilots
- Weather Experts
- Contracting Specialists



# Core Business

- Field Program Support
- Regional NextGen Field Branches
  - National Policy
- Interfacing with Research and Development Safety Programs
- Airspace and Capacity
- Large Aircraft – A380
- Wake & Separation Standards
- Data Communications
- Flight Systems Laboratory



# Core Business (continued)

- Flight Simulators:
  - B737-800
  - A-330/340
- Instrument Flight Procedure Programs
  - Terminal Procedures (TERPS)
  - Airspace Policy
  - Instrument Procedures Handbook
- Third Party Oversight
- Special instrument approach procedure approvals
- Human Factors



Photo courtesy of Chaim Van Pryn

# Core Business (continued)

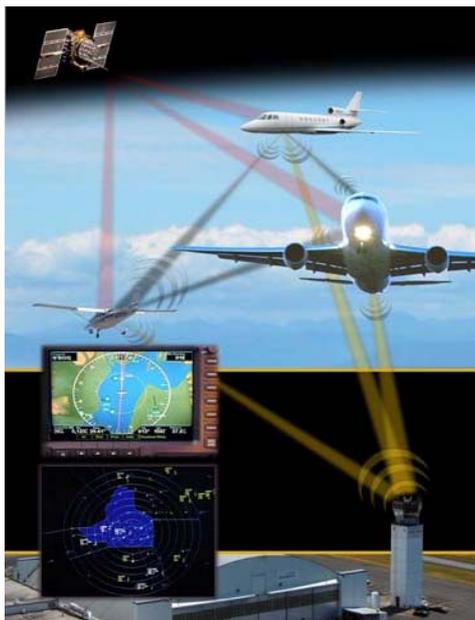
- **Performance-Based Navigation (PBN)**
- **Aircraft Centric Operations**
- **Surveillance**
  - Automatic Dependent Surveillance – Broadcast (ADS-B)
- **All Weather Operations**



# Stakeholders and Customers

- Internal

- Air Traffic
- Airports
- Aviation Safety
- Regional and Field Personnel



- Media/Political

- Congressional and Senate
- Media

# Stakeholders and Customers

- External

- Aviation Groups

- Manufacturers
    - Air Carriers
    - Regional Carriers
    - Helicopters
    - General Aviation



- International

- ICAO
    - EASA
    - CAAC
    - Others

# Thank You!

