

# Communications, Flight Service and Weather Engineering Group, AJW-17

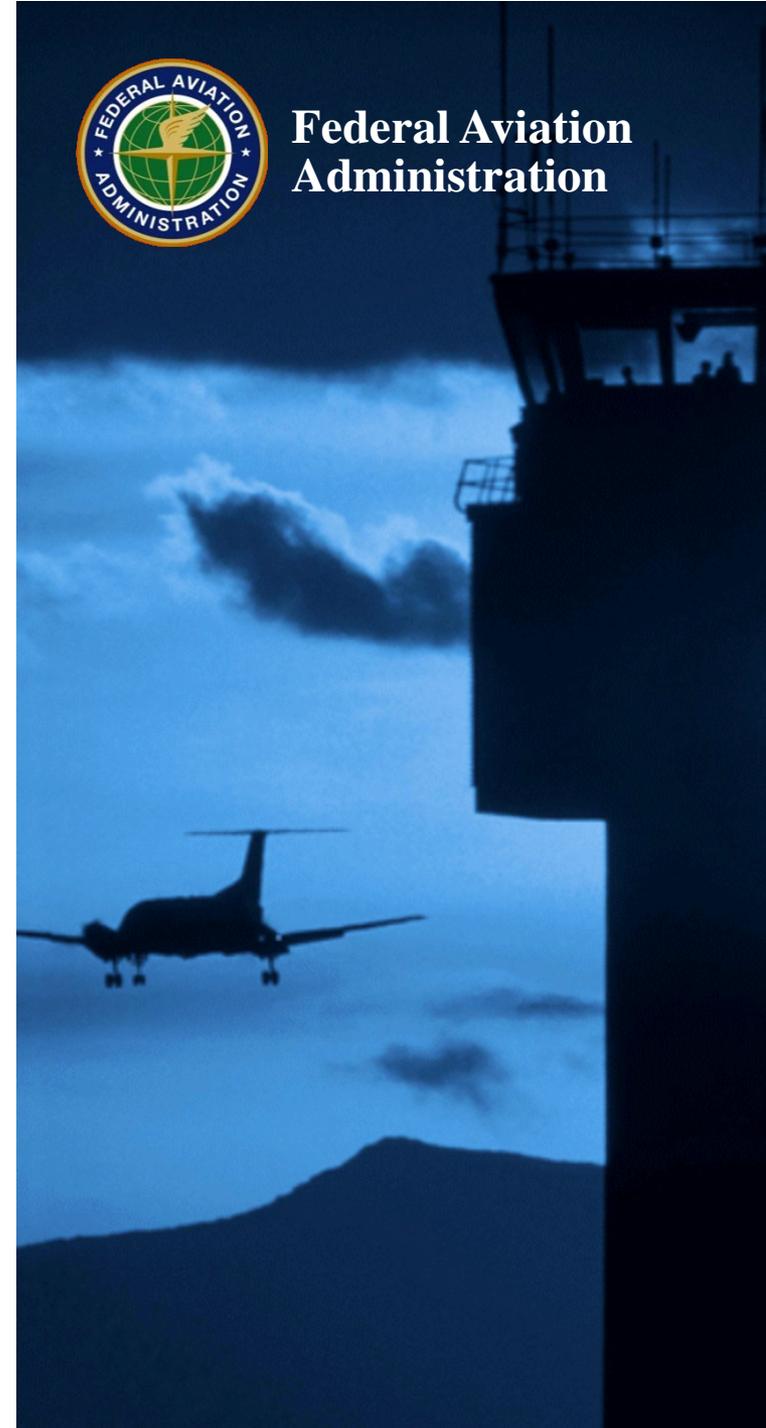
## 2<sup>nd</sup> Level Engineering Support Small Business Conference

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Federal Aviation  
Administration



# AJW-17 Mission/Vision

## **Mission**

To provide 2<sup>nd</sup> level engineering support for Communications, Flight Service and Weather systems through directives, modifications, handbooks, technical issuances, and 24/7 field support.

## **Vision**

To be the organization of choice, providing cost effective and innovative solutions to meet our customer needs in order to maintain a safe and efficient National Airspace System.

## **Who We Are**

We are a highly skilled and motivated team committed to supporting the National Airspace System. We do this through disciplined engineering practices, procedures, performance monitoring, quality assurance and collaboration necessary to ensure the continued availability, reliability, and maintainability of services for the systems we support.

We raise the bar by setting high standards for ourselves and take pride in ownership for the systems we support. We are well known and sought after to solve complex technical problems and deliver solutions. We bring creativity, transparency, and excitement to the workplace every day.

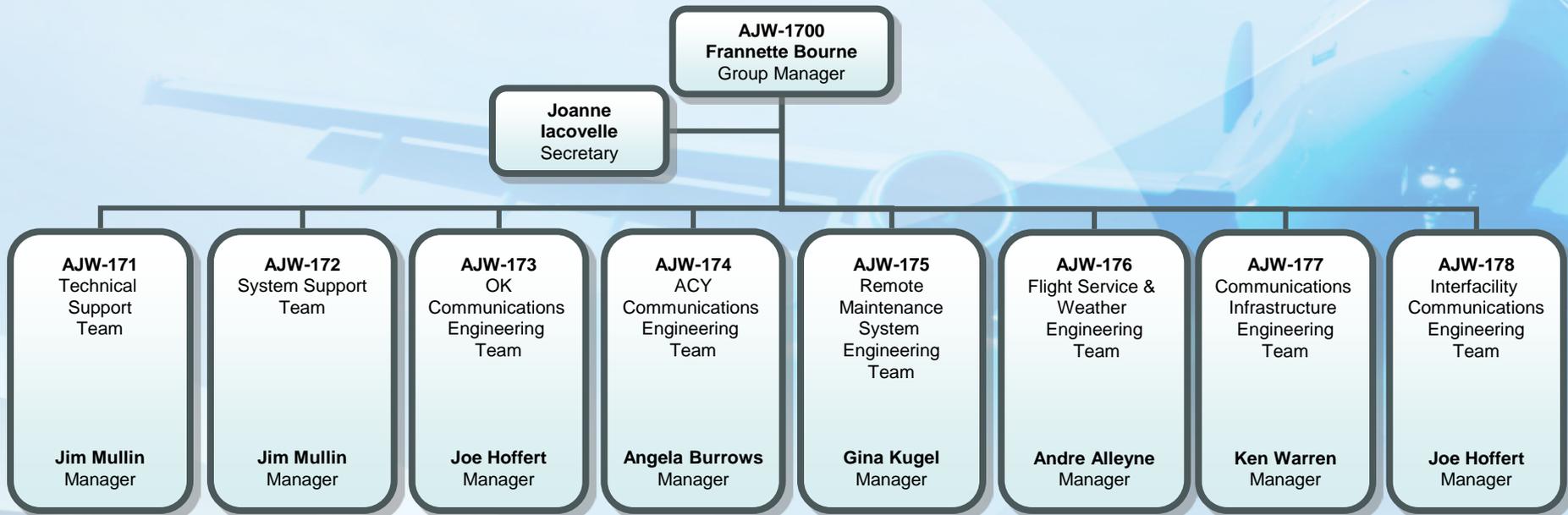
# AJW-17 Mission/Vision

## We are comprised of:

- Software, Hardware, Safety, and Test Engineers, Developers, Scientists and Computer Specialists
- Configuration Management (CM), Documentation, and Quality Assurance (QA) Experts
- Program Management and Contract Professionals

We are located at the William J. Hughes Technical Center (WJHTC) and have systems within the 20 Air Route Traffic Control Centers (ARTCCs) and 2 Micro-earths Anchorage Facility (ZAN) and the Honolulu Facility (ZHL).

# AJW-17 Organizational Structure



# AJW-17 What We Do

**We provide first class 2<sup>nd</sup> Level Support and deliver quality products for Communications, Flight Service and Weather Engineering.**

**From October 2013 to September 2014 we:**

- Completed 4156 Requests of Assistance
- Completed 237 System Improvements
- Completed 77 Document improvements
- Completed 414 Restoration/On-Site Support Requests

# Organizational Excellence

**Fostering the implementation of world class business operations that yield maximum effectiveness. AJW-17 continues to incorporate In-Sourcing initiatives. The following NAS system projects currently underway demonstrate the successful application of this corporate strategy:**

- Aviation Weather Processor (AWP)
- WMSCR
- VSCS/VTABS
  - VSCS Conversion of PLM to C code
  - Ground to Ground Switch Conversion
  - VSCS Control System Upgrade
  - VSCS Console Equipment (VCE)
  - VSCS Integrated Test Suite Upgrade (VITS-U)
- NADIN NMR/NADIN Message Rehost (NMR)
- ATS Message Handling System (AMHS)
- ADAS Re-host
- RMLS (RMM)
  - RMLS Phase 2, NRN
- TDLS Tech Refresh and Data Comm Phase 1 Segment 1
- SWIM Terminal Data Distribution System (STDDS)

# Operational Support Provided

**AJW-17 produces and maintains over 12.3 million lines of source code via the following systems:**

- Air/Ground Communications - RCE
- HF/VHF Emergency Network
- Voice Recorders
- Voice Switch – ETVS, STVS
- Voice Switching and Control System (VSCS)
- VSCS Training and Backup System (VTABS)
- Legacy Remote Maintenance Monitoring System (RMMS)
- Remote Monitoring and Logging System (RMLS)
- OASIS
- Weather and Radar Processor (WARP)
- Weather Message Switching Center Replacement (WMSCR)
- Automated Weather Observation Data Acquisition System (ADAS)
- National Airspace Data Interchange Network (NADIN) Packet Switched Network (PSN) aka NADIN-II
- NAS Messaging Replacement (NMR)
- ICAO Air Traffic Services Message Handling System (AMHS)

# Operational Support (cont'd)

- Alaskan Satellite Telecommunications Infrastructure (ASTI)
- FAA Telecommunications Infrastructure (FTI) – Microwave (FTI-MW)
- Leased Telecommunications
  - FAA Telecommunications Infrastructure (FTI)
  - Master Demarcation System (MDS)
- FAA-Owned Telecommunications
  - Bandwidth Manager (BWM)
  - Data Multiplex Network (DMN)
- Tower Data Link Services (TDLS)
- NextGen Data Comm Segment 1
- SWIM Terminal Data Distribution System (STDDS)
- HF / VHF Emergency Network
- Fiber Optics Transmission Systems (FOTS)

# OPS Support Beyond ATO-W

## Contract Management

- Currently we have two SOS contract vehicles which provide support for 2nd level engineering activities in Tech Ops, Terminal and Enroute (SOS-7 and SOS-8) .
- There is a cross- team of participants working on the SOS Contracts Recompete activities
- New SOS contracts should be awarded and in place by mid 2016

## NAS Documentation

- Provide documentation configuration management, technical writing, plain language implementation and editorial support to ATO-W, ATO-P, ATO-R, ATO-T and ATO-E (all Oceanic and legacy Enroute systems)
- Provide LEM entry and management for ATO-W, ATO-E, and ATO-T
- Ensure consistent adherence to FAA orders, standards, and directive processes. Provide instructions for Writing Notices, Maintenance Handbooks, and System Support Directives.

# NextGen Activities

| Projects   | Commitments  |
|--|--|
| <b>NVS - NAS Voice System</b>  | <ul style="list-style-type: none"> <li>• Providing oversight and support of NextGen Program NVS that can interface and tie the requirements to the legacy systems in Terminal and En Route environment</li> <li>• Currently participating in NVS Working Groups activities and supporting Tech Ops Early User Involvement Event schedule to be held at Harris' Melbourne NVS Lab in mid Nov 2014.</li> <li>• Provide Technical Support and Validation Testing to Program Office on NVS Program Requirements</li> </ul>   |
| <b>NEXCOM</b>  | <ul style="list-style-type: none"> <li>• Supporting Segment 1 and Segment 2 procurements. Segment 1 replaces transmitters and receivers in the enroute environment. Segment 2 will replace these items in the Terminal environment.</li> </ul>   |
| <b>CSS-Wx – Common Support Weather</b><br><b>NWP – NEXTGEN Weather Processor</b> | <ul style="list-style-type: none"> <li>• Providing Technical Support to NextGen Wx Program Office on CSS-Wx &amp; NWP Requirements.</li> <li>• Supported development of CSS-Wx Initial Program Requirements (iPR) &amp; NWP Initial Program Requirements (iPR) in-preparation for Initial Investment Decision (IID).</li> <li>• Supported development of CSS-Wx Final Program Requirements (fPR) &amp; NWP Final Program Requirements (fPR) in-preparation for Final Investment Decision (FID).</li> <li>• Supported development of CSS-Wx System Specification Document (SSD) &amp; NWP System Specification Document (SSD) in-preparation for SIR Release.</li> <li>• Supported development of NWP Statement of Work in-preparation for SIR Release.</li> <li>• Supported development of CSS-Wx Statement of Work in-preparation for SIR Release.</li> </ul> |
| <b>Data Communications</b>   | <ul style="list-style-type: none"> <li>• Engaged with the Data Communications program office in support of implementing Controller Pilot Data Link Communications (CPDLC)</li> <li>• Responsible for all technical aspects of the TDLS/Data Comm Hardware, Software development, testing and deployment. Providing support to various requirements and testing workgroups.</li> <li>• Responsible for advancing the evolution to NextGen with new capabilities through collaboration with the Data Communications Program Office, ERAM, and other organizations to develop ATN supported messages.</li> </ul>  |



# Questions

