

JPDO NEWS

February 2008

A newsletter from the Joint Planning and Development Office

From 1500 K Street, NW

Reminder: The next JPDO "All Hands" meeting will take place on Thursday, February 28, beginning at 9:00 a.m. at the James Webb Auditorium, NASA Headquarters Building, 300 E Street, SW, Washington, DC 20024. A highlight of the meeting will be a briefing on NextGen/SESAR efforts by Carey Fagan, Director of the ATO Operations Planning International Office and JPDO Global Harmonization Working Group government co-chair.

Version 0.2 of the Next Generation Air Transportation System Integrated Work Plan (IWP) is scheduled to be released on February 15 for public review and expanded review by JPDO partner departments and agencies, stakeholders, and industry. This document will be available on www.jpdo.gov. The review and comment period will be completed by March 28.

In an interview on Focus FAA Live, JPDO Director Charles Leader discusses the upcoming year in the transformation to NextGen, as well as the role of the JPDO in the various environments in which it operates. For the full interview, please go to <https://employees.faa.gov/news/focusfaa/story/?newsid=55610>.

We welcome your input. Please send your comments to 9-AWA-ATO-JPDO-Partnership@faa.gov.

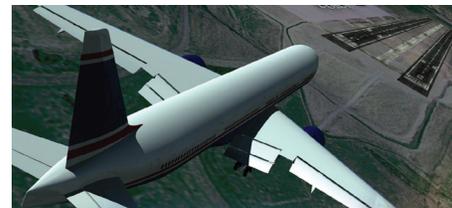
JPDO News Staff

Joint Planning and Development Office
Partnership Management Division
1500 K Street, NW, 5th Floor
Washington, DC 20005
www.jpdo.gov
202-220-3487

NextGen Conference on Integrating Weather, Airports and Air Navigation Services

The JPDO is sponsoring a conference focusing on the integration of weather into the Next Generation Air Transportation System (NextGen). The conference will take place on February 12 and 13 at the National Transportation Safety Board Conference Center in Washington, DC. This conference will provide a top-level review of the NextGen Concept of Operations with a focus on trajectory-based and super-density operations, and assimilating weather information into future decision-making tools and processes.

Approximately 200 participants from government, industry, and academia will attend this first-ever event. In small work groups, participants will discuss what operational and technical actions must be accomplished by the aviation and weather communities to ensure synchronized integration of weather information into operational decision-support tools. Their recommendations will inform the transformational process of NextGen with regards to policy change, organizational innovation, research, and simulations and demonstrations. For a detailed agenda and preparatory materials, please visit www.jpdo.gov. ✈️



Avionics Road Map

A key 2008 JPDO milestone is development of the Avionics Road Map. This equipage road map will be incorporated into revisions of the Integrated Work Plan (IWP) planned for release later this year. It will support important discussions pertaining to early funding commitments that government and industry will need to achieve NextGen goals through the near- and mid-term time frames. The Avionics Road Map will be built upon the conceptual framework presented in both the NextGen Concept of Operations and the IWP planning documents. It will add key information—priorities, benefits, risks, costs, and levels of technology maturity—so that the aviation industry will know more specifically how the JPDO envisions achieving many of the operational improvements and capabilities associated with NextGen. The road map will be a bridge from today's varied fleet to the future by describing specific and selected equipment and operational changes. Development of this road map will enable the JPDO and the aviation community to make an important step in the transformation to NextGen by adding specificity and objectivity to the key planning documents. The first version of the Avionics Road Map will be developed by September 2008. This work will continue into 2009 and 2010 with refinement and maturation. ✈️





DOT Secretary Peters Touts NextGen, New Task Force to Clear Congestion

Secretary of Transportation Mary Peters recently reiterated her support for NextGen as a Federal priority before announcing a new task force as the latest vehicle for alleviating traffic congestion at the nation's airports.

Speaking at the January 22 Aero Club of Washington luncheon, Peters said, "We have got to upgrade our outdated air traffic control system with satellite-based NextGen technology if we are going to get ahead of the congestion problem. I can tell you that [DOT and the FAA] are stepping up the pressure on everyone involved with NextGen to start delivering tangible results for the traveling public."

Peters reminded the audience about the 2007 contract award for the satellite-based Automatic Dependent Surveillance-Broadcast (ADS-B) system and its aircraft requirements for new avionics. She added, "We are already getting a first glimpse of the powerful ADS-B technology in action ... to help manage noise, emissions, and fuel consumption."



Secretary of Transportation Mary Peters speaks to the Aero Club of Washington.

The Secretary also used the opportunity to announce the creation of a Tarmac Delay Task Force. The 35-member team, formally named the National Task Force to Develop Model Contingency Plans to Deal with Lengthy Airline On-Board Ground Delays, is intended to develop a strategy for dealing with prolonged on-board ground delays.

The task force will build upon DOT's other methods to address congestion, Peters said, adding that DOT has been actively seeking the input of airlines regarding such topics. ✈️

High-Density Case Study

The JPDO Systems Modeling and Analysis Division (SMAD), directed by Yuri Gawdiak, is leading an internal case study focusing on increasing arrivals/departures at high-density airports and the requisite capabilities that will enable the transformation to the Next Generation Air Transportation System. The case study investigates building the NextGen portfolio, a process which requires a high degree of coordination and integration within the JPDO and its government and industry partners. In addition to

examining alignment of the JPDO Divisions, the study is also testing integration with the FAA planning processes and responsibilities, and investigating alignment issues with FAA efforts and products in the Operational Evolution Partnership.

The case study evaluates several alternatives for increasing arrivals/departures at high-density airports. The alternatives range from continuing using today's resources and policies as a baseline to increasing advanced and complex technologies and innovative policy initiatives. For completing the analysis, a suite of modeling and simulation tools is used to determine socioeconomic impacts, and effects on the aviation system's safety, security and environmental metrics of three different alternatives. The study will investigate key policy issues and challenges on transition management, scheduling, consolidation of facilities, service realignment, safety requirements, and managing traffic in situations where demand in certain environments exceeds capacity. The results of the study will be used to inform the JPDO portfolio management and business case development processes. ✈️

Aligning NextGen Planning with NASA Research Activities is Focus of JPDO/NASA Quarterly Meeting

JPDO hosted a quarterly meeting on January 15 with NASA's Aeronautics Research Mission Directorate (ARMD) senior staff.

Dr. Ed Waggoner, Director of the JPDO Enterprise Architecture and Engineering Division, provided the latest update on the progress of the NextGen Integrated Work Plan (IWP). He framed the IWP as a "dynamic instrument continually refined and enhanced to reflect current priorities, budgets, and programs." Waggoner thanked NASA for submitting over 200 comments during the IWP review period.

NASA representatives focused their briefings on their current research. Dr. Karlin Toner, Director of ARMD Airspace Systems Program, briefed on the NASA Research Announcement (NRA) process for procuring research proposals. According to Dr. Toner, the use of NRAs allows NASA a flexible venue to fund necessary fundamental research in order to achieve NextGen.

Dr. Steve Young, the principal investigator of NASA's Integrated Intelligent Flight Deck (IIFD) Program, spoke on his team's current research. An advanced flight deck system, which is responsible for the command and control of the aircraft, is an integral part of NextGen. The IIFD Program is working on providing an increase in levels of automation, availability of information, diversity of equipment, and more rigorous performance requirements. ✈️