Welcome to NextGen 101

This conference will cover a basic understanding of aviation history, current NAS operations, and NextGen Programs purposes, goals, systems, accomplishments/status, research and benefits.
INTRODUCTION

History
Beginning of commercial air transportation system
First experimental air mail during daylight
Night-flying experiment
First scheduled airline
First ever air traffic controller
Postwar years
First U.S. passenger jet
Current ATC
NextGen

NextGen
What is NextGen?
Why is NextGen needed?
How different is NextGen from NowGen?
Advantages of NextGen over NowGen

NEXTGEN IMPACT ON PUBLIC
Benefits of NextGen to the public
Energy conservation
Profits to date due to NextGen

NEXTGEN IMPACT ON STAKEHOLDERS
Collaboration among stakeholders
NextGen results for general aviation
Impact on airports & airlines

NATIONAL AIRSPACE SYSTEM
What is NAS?
Infrastructure of NAS
Metroplex advances
Optimization of airspace & procedures in the Metroplex
Painting the NAS green

PROGRAMS
Automatic Dependent Surveillance – Broadcast
Data Communications
En Route Automation Modernization
Terminal Automation Modernization and Replacement
Re-categorization of Wake Turbulence Standards
NAS Voice System
System Wide Information Management
International Harmonization
UAS NAS Integration

OPERATIONAL IMPROVEMENTS
Improved surface operations
Improved approaches and low visibility
Closely-spaced, parallel, converging and intersecting runway operations
Performance-based navigation
Time-based flow management
Collaborative air traffic management
Automation support for separation management
On-demand NAS information
Environment and energy

REFERENCE DOCUMENTS
NextGen Implementation Plan
NextGen Now NATCA
NextGen Conops
NextGen Mind Map

OPERATIONAL TOOLS
Terminal Flight Data Manager
Time Based Flow Management

SAFETY METHODS
System Safety Management Transformation Program
Aviation Safety Information Analysis and Sharing Program

PROJECTS INVOLVED
Aircraft access to SWIM
Mini-Global
Airborne execution of flow strategies

RESEARCH PROJECTS
Common Support Services - Weather (CSS-Wx)
Aviation Weather Research Program
Weather in the Cockpit Programs

ACRONYMS

Conference Schedule
9:00 AM to 4:00 PM

Day 1 • June 23, 2015
09:00 – 09:30 AM  Keynote Speaker
09:30 – 10:15 AM  Introduction
10:15 – 10:30 AM  BREAK
10:30 – 11:00 AM  NextGen Results for the Public
11:00 – 11:45 AM  NextGen Results for Stakeholders
11:45 – 12:45 PM  LUNCH
12:45 – 02:00 PM  National Airspace System
02:00 – 03:15 PM  Programs
03:15 – 04:00 PM  Operational Improvements

Day 2 • June 24, 2015
09:00 – 09:30 AM  Reference Docs
09:30 – 09:45 AM  BREAK
09:45 – 10:15 AM  Operational Tools
10:15 – 10:45 AM  Safety Methods
10:45 – 11:30 AM  NextGen Test Beds
11:30 – 12:30 PM  LUNCH
12:30 – 01:15 PM  Projects in Florida Test Bed
01:15 – 02:15 PM  NextGen Research Projects
02:15 – 03:00 PM  Recap
03:00 – 03:15 PM  BREAK
03:15 – 03:30 PM  Acronyms
03:30 – 04:00 PM  Questionnaire