DENVER – A PBN SUCCESS STORY

MIKE MCKEE
NOISE ABATEMENT MANAGER
MARCH 4, 2019
DENVER NEXTGEN WORKING GROUP

- Delta Airlines
- ExpressJet
- Frontier Airlines
- SkyWest Airlines
- Southwest Airlines
- United Airlines
- US Airways
- Arapahoe County Public Airport Authority – Centennial Airport
- City and County of Denver – Denver International Airport
- Colorado Division of Aeronautics, CDOT
- HMMH Inc.
- HNTB Corporation
- Jeppesen
- MITRE Corporation
- National Air Traffic Controllers Association (NATCA)
- FAA Denver Flight Standards Office
- FAA Performance-based Navigation Office – HQ
- FAA Aeronav Products – Oklahoma City
- FAA Western Service Center – Seattle
- FAA Traffic System Operations – HQ
- FAA Northwest Mountain Region Flight Standards Office – Seattle
- FAA Denver Control Tower
- FAA Denver Radar Approach Control
- FAA Denver Air Route Traffic Control Center - Longmont
EARLY & CONTINUED COLLABORATION IS THE KEY TO SUCCESS!
IMPROVED IGA COMPLIANCE
Airlines’ Anticipated Savings Per Flight
RNP vs ILS Simos
Data Collected In Simulators

RNP Z 34L vs. ILS 34R

**UAL Efficiency Gained RNP Z 34L**
 Fuel: 700 lbs saved  
Time: 9 minutes saved

RNP Z 34L vs. ILS 34R

**SWA Efficiency Gained RNP Z 34L**
 Fuel: 800 lbs saved  
Time: 10 minutes saved

**FFT Efficiency Gained RNP Z 34L**
 Fuel: 940 lbs saved  
Time: 10 minutes saved
KDEN Monthly RNP AR Utilization

- Peak Day
  - Nov 20, 2018
  - 151 Approaches

- Peak Month
  - January 2019
  - 2766 Approaches

Implemented Predictable RWY Assignment Model

- Allowed EoR
  - Widely Spaced RWYs
  - 7110.65 para 5-9-10

- Allowed Next to Visuals
  - 7110.65 para 7-4-4c

- SkyWest E-175s Equipped

- Suspension For Wrong RWY Mitigation

- Peak Day
  - Nov 20, 2018
  - 151 Approaches

- Peak Month
  - January 2019
  - 2766 Approaches

Month

- May-14
- Oct-14
- Mar-15
- Aug-15
- Jan-16
- Jun-16
- Nov-16
- Apr-17
- Sep-17
- Feb-18
- Jul-18
- Dec-18
Annual Noise Complaints Received

NextGen PBN Implementation
Annual # of Households Registering At Least One Complaint

NextGen PBN Implementation