WELCOME

PUBLIC INFORMATION WORKSHOP

Metropolitan Phoenix Area, Arizona

FEDERAL AVIATION ADMINISTRATION
As part of the community involvement process and in partnership and collaboration with the City of Phoenix, the Federal Aviation Administration (FAA) is hosting these workshops in accordance with Step Two of the agreement between the FAA and the City of Phoenix/certain historic neighborhood associations following the decision in City of Phoenix, Arizona v. Huerta, 869 F.3d 963 (D.C. Circuit 2017).

The purpose of these workshops is to discuss comments received during the public workshops and comment period associated with Step One. Step One was intended to approximate pre-2014 flight routes for west flow departures from Phoenix Sky Harbor Airport.

The workshops will provide information about the recent implementation of Step One and accept any additional comments for the FAA to consider in Step Two.

The workshops will provide information about past and current flight routes in the greater Phoenix Area.

Purpose of Workshops
How the FAA Will Use Your Comments

• The FAA reviewed and analyzed the comments received during the February 2018 public comment period associated with Step One, and has begun considering potential conceptual airspace changes not addressed by the implementation of west flow departures routes under Step One.

• The FAA will review and analyze comments received at these workshops and during the Step Two public comment period. In addition, the FAA is continuing to consider comments received during Step One that relate to Step Two.

• Based on the comments received and other factors such as operational safety and efficiency, the FAA may initiate new airspace changes and complete an environmental review in accordance with applicable federal laws and FAA orders.

• The FAA is not committing to make any changes. The decision whether to implement potential airspace or route changes during Step Two will be at the FAA’s sole discretion.
Departures - A reference or comment directly related to departures that were either preexisting or were expected to occur with the implementation of the Step One procedures.

There were 279 comments received in this category.

Note – Comment location dots in close proximity may overlap.
Arrivals - A reference or comment directly related to arrivals that were either preexisting or were expected to occur with the implementation of the Step One procedures.

There were 81 comments received in this category.

Note – Comment location dots in close proximity may overlap.
Approximate Location of Comments Regarding Noise

- **Noise** - A reference to noise directly related to aircraft that was either preexisting or was expected to occur with the implementation of the Step One procedures.

- There were 356 comments received in this category.

- Note – Comment location dots in close proximity may overlap.
Approximate Location of Comments Regarding Other Environmental Resource Categories

- **Air Quality** - A reference to airborne pollutants and/or claims of breathing issues caused by the introduction or existence of aircraft, etc.
- **Biological** - Referencing wildlife and/or habitats.
- **Emissions** - Pollutants directly related to jet exhaust, including soot, fuel (either visible residue or vapor odor), etc.
- **Environmental Justice** - References and/or claims to a decision to place flight paths or aircraft over low income or minority neighborhoods.
- **Section 106** - A reference to a specific resource or location that may require special consideration under Section 106 of the National Historic Preservation Act (historic or culturally significant properties).

There were a total of 17 comments received in these categories, collectively.

**Note** – Comment location dots in close proximity may overlap.
• **Other** - A comment or portion of a comment that did not fall into any of the other specific categories.

• There were 112 comments received in this category.

• Note – Comment location dots in close proximity may overlap.
Overview: East Flow At Phoenix Sky Harbor Airport

- Existing flight tracks and current arrival and departure routes when flights from PHX are landing and departing to the east.

- The magenta and orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.

- There were 493 comments received for Step Two.

- Note – Comment location dots in close proximity may overlap.
Overview: West Flow At Phoenix Sky Harbor Airport

- Existing flight tracks and current arrival and departure routes when flights from PHX are landing and departing to the west.
- The magenta and orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.

Note – Comment location dots in close proximity may overlap.
Overview: East Flow Departure Procedures

• Existing flight tracks and current departure routes when flights from PHX are departing to the east.

• The magenta lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.

• There were 493 comments received for Step Two.

• Note – Comment location dots in close proximity may overlap.
Overview: West Flow Departure Procedures

- Existing flight tracks and current departure routes when flights from PHX are departing to the west.

- The magenta lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.

- There were 493 comments received for Step Two.

- Note – Comment location dots in close proximity may overlap.

Comment Category
- All Categories

Departure Routes
Existing Departure Tracks
Overview: East Flow Arrival Procedures

• Existing flight tracks and current arrival routes when flights from PHX are arriving to the east.

• The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.

• There were 493 comments received for Step Two.

• Note – Comment location dots in close proximity may overlap.
Overview: West Flow Arrival Procedures

- Existing flight tracks and current arrival routes when flights from PHX are arriving to the west.
- The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.
Overview: Northeast Quadrant - Departures

East Flow Departure

West Flow Departure

- Existing flight tracks and current departure routes.
- The magenta lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.
Overview: Northeast Quadrant - Arrivals

PHX
Phoenix Sky Harbor International Airport

**East and West Flow Arrivals**

- Existing flight tracks and current arrival routes.
- The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.
This shows existing flight tracks and current departure routes.

The magenta lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.

There were 493 comments received for Step Two.

Note – Comment location dots in close proximity may overlap.
Overview: Southwest Quadrant - Arrivals

East Flow Arrival

- Existing flight tracks and current arrival routes.
- The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.

West Flow Arrival

PHX Phoenix Sky Harbor International Airport

East and West Flow Arrivals

Comment Category
- All Categories

- Arrival Routes
- Existing Arrival Tracks
East Flow Departure

- Existing flight tracks and current departure routes.
- The magenta lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.
Overview: South Quadrant - Arrivals

- Existing flight tracks and current arrival routes.
- The orange lines are approximations of flight routes. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.

Comment Category
- All Categories

- Arrival Routes
- Existing Arrival Tracks
Concept 1 – Supplemental Northeast Bound Departures During East Flow

• Existing flight tracks and a conceptual design that would affect the departures during east flow operations at PHX that turn to the north and northeast.

• Concept 1 would supplement existing east flow northbound procedures. This would allow roughly 30% of the aircraft to be moved to the east (Concept 1).

• The orange dashed lines represent an approximation of the conceptual design. The width of the orange dashed lines and the shaded edges are not intended to depict a flight corridor or boundary.

• There were 493 comments received for Step Two.

• Note – Comment location dots in close proximity may overlap.
Concept 2 – Supplemental Route for Arrivals from the Northeast During East Flow Operations

• Existing flight tracks and a conceptual design that would affect the arrivals during east flow operations at PHX from the northeast.

• The EAGUL arrival route would be replaced by two new arrival routes. This would allow roughly 30% of the aircraft currently on the EAGUL route to be moved to the southern most routing.

• The route to the north would be located south of the current EAGUL route prior to the final approach for PHX.

• The route to the south would over-fly just west of PHX before turning north and then east for landing.

• The orange lines are approximations of the conceptual designs. The lines, and their widths, are not intended to depict precise flight corridors or boundaries.

• There were 493 comments received for Step Two.

• Note – Comment location dots in close proximity may overlap.
2013 Phoenix (PHX) and Scottsdale (SDL) Flight Tracks

Phoenix Step Two Workshop

PHX
Phoenix Sky Harbor International Airport
2013 Flight Tracks

- Historical Flight Track Map around Scottsdale Airport
- Seven Days of Operations
Phoenix Step Two Workshop

2013 Phoenix (PHX) and Scottsdale (SDL) Flight Tracks

PHX
- Historical Flight Track Map around Scottsdale Airport
- Seven Days of Operations
- There were 493 comments received for Step Two.
- Note – Comment location dots in close proximity may overlap.
2018 Phoenix (PHX) and Scottsdale (SDL) Flight Tracks

- Current Flight Tracks around Scottsdale Airport
- Seven Day of Operations
• Current Flight Tracks around Scottsdale Airport

• Seven Day of Operations

• There were 493 comments received for Step Two.

• Note – Comment location dots in close proximity may overlap.
PHX and Satellite Airport Operations

Phoenix Sky Harbor International Airport

2018 Flight Tracks

- Current Flight Tracks of Phoenix and other airport operations
- Seven Days of Operations

PHX

PHX

Current Flight Tracks of Phoenix and other airport operations

Seven Days of Operations
Current Flight Tracks of Phoenix and other airport operation

Seven Days of Operations

There were 493 comments received for Step Two.

Note – Comment location dots in close proximity may overlap.
The dark blue tracks represent departure tracks from 14 days in 2013.

The light blue tracks represent departure tracks from 14 days in 2019.
The dark blue tracks represent departure tracks from 14 days in 2013.

The light blue tracks represent departure tracks from 14 days in 2019.
The dark blue tracks represent arrival tracks from 14 days in 2013.

The light blue tracks represent arrival tracks from 14 days in 2019.
The dark blue tracks represent arrival tracks from 14 days in 2013.

The light blue tracks represent arrival tracks from 14 days in 2019.
Performance Based Navigation Process

Key Decisions and Activities:
- Project Initiation
- Design Kickoff Decision
- Development Decision
- Implementation Decision

Potential Community Involvement Opportunities:
- Airport Coordination
- Select Official Outreach
- Industry
- Public Engagement
- Industry
- Notice to Airports
- Notice to Select Officials
- Public Information
- Airport Inquiries
- Select Official Inquiries
- Public Inquiries

Note: The need for and level of engagement will vary based on project circumstances
Environmental Review Process
This chart shows the environmental steps the FAA would follow if the agency develops any of the conceptual changes.

**NEPA Process**
Consideration of a Proposed Action under the National Environmental Policy Act (NEPA)

**Preliminary Technical Review**
FAA conducts an internal technical review before deciding to move forward with an environmental review

**Internal Review to Determine Level of NEPA Review**
FAA conducts an internal environmental review of the proposed action to evaluate potential environmental impacts. Input from the public is used to assist the FAA in determining which of the three levels is appropriate to complete the environmental review.

**Categorical Exclusion (CATEX)**
This level of review is prepared for types of actions that do not normally have the potential for individual or cumulative significant impacts on the human environment.

**Environmental Assessment**
This level of review is prepared to consider the potential environmental impacts of the proposed action, and to determine whether the FAA should prepare an Environmental Impact Statement or issue a Finding of No Significant Impact (FONSI).

**Environmental Impact Statement**
This level of review is completed when one or more environmental impacts would exceed specific thresholds and mitigation measures would not reduce the impact(s) below significant levels.

**Record of Decision**
The FAA formal decision document.

**Finding of No Significant Impact**
The FONSI finding is issued when the proposed action's environmental impacts with no additional mitigation, would not be significant.

**Proposed Action May Proceed**

**Preliminary Environmental Review**
FAA conducts a preliminary internal environmental review to evaluate any potential environmental concerns.

**Extraordinary Circumstances**
FAA Order 1050.1F identifies the range of factors which define extraordinary circumstances.

**Significant Impact**

**Yes**

**No**
Phoenix Metropolitan Area Airports significance on the local economy

- Phoenix Sky Harbor, Phoenix Deer Valley and Phoenix Goodyear airports have a total impact of:
  - $38 Billion Economic Impact
  - 269,000 Employment
  - $13 Billion Annual Payroll
  - Airlines and air cargo firms serving nonstop flights had economic activity estimated as $281.7 million.

Sources:
- ECONOMIC IMPACT OF THE PHOENIX AIRPORT SYSTEM Prepared by Seidman Research Institute W. P. Carey School of Business Arizona State University, May 17, 2017
- https://www.skyharbor.com/about/Information/EconomicImpact

- Scottsdale Airport/Airpark
  - $536 Million Economic impact
  - 3,462 Employment
  - $25 Million Annual Payroll

Source:
- ECONOMIC BENEFIT ANALYSIS, Appendix D, Scottsdale Airport