

# Phoenix Deer Valley Airport Master Plan Update



June 2015



City of Phoenix



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## Introduction

### Intro.1 Master Plan Goals and Objectives

A master plan is a planning document that evaluates the current and future needs of the airport over a 20 year planning horizon. A master plan typically includes a forecast of aviation activity, associated airport facility requirements and plans to accommodate the projected demand over the 20 year horizon. The recommended plan is used to update the Airport Layout Plan (ALP) which the Federal Aviation Administration (FAA) approves. The FAA recommends that airport sponsors update the master plan for their airport every 5 to 10 years.

The previous Master Plan Update for Phoenix Deer Valley Airport (DVT) was completed in 2007 just before the economic downturn in 2008. A number of projects have also been implemented since the completion of the previous Master Plan Update, including Taxiway A reconstruction and relocation, runway and taxiway safety area improvements, drainage improvements and ramp improvements and reconstruction. As a result, the forecast of aviation activity and associated recommended plans developed under the previous Master Plan Update have been updated under this current Phoenix Deer Valley Airport Master Plan Update (the Master Plan). The FAA's current design advisory circular (AC) 150/5300-13A, published after the completion of the previous Master Plan Update, was also taken into account and drives the airfield alternatives reviewed. The AC outlines new design standards focused on safety enhancements and improving airfield geometry that can result in incursions.

The development of this Master Plan, prepared in accordance with FAA A 150/5070-6B: Airport Master Plans, was an iterative process involving many airport and community stakeholders and was customized to accommodate specific aviation demands while remaining economically and environmentally feasible. The objectives of the Master Plan set forth at the onset of the project and that were adhered to during the master planning process included:

- Identifying DVT's historical activities and past challenges as well as aviation trends that have impacted the airport since the last master plan
- Developing forecasts of future aviation demand levels at the airport over the next 20 years
- Assessing community land use goals and regional aviation needs as well as identifying what adjacent land uses may hinder future growth
- Working with the public and other airport stakeholders to gain feedback on airport development
- Determining the airport's facility requirements through the next 20 years, including additional facilities and expansion of existing facilities
- Evaluating the facility layout for conformance with FAA airport design regulations
- Developing ALP drawings that graphically depict proposed capital improvements



- Updating the Capital Improvement Program to reflect recommended projects including the business case for these improvements
- Recommending sustainability initiatives that may result in reduced energy consumption and/or environmental impact

Working with City of Phoenix Aviation Department Staff and airport and community stakeholders a set of Master Plan goals was identified at the onset of the project and revisited throughout the planning process. These goals were meant to drive the planning process and were used to evaluate proposed Master Plan concepts during alternatives development. The primary goals, as identified in this Master Plan, are to:

- Improve safety
- Enhance operational efficiency
- Right-size the development at DVT
- Meet current FAA airport design standards
- Accommodate forecast demand at a high level of service
- Balance the utilization of the airfield (north and south)
- Implement financially responsible development

## Intro.2 Coordination

The Master Plan included a robust public and stakeholder coordination process. The coordination effort was comprised of three parts: a Technical Advisory Committee (TAC), a Public Advisory Committee (PAC), and open public workshops.

The TAC was comprised of individuals representing primary airport tenants, users and groups with strong technical understanding of the airport operations. This group is technically focused and familiar with aviation procedures providing focused discussions and technical feedback on airport facility needs and operations. The TAC met five times throughout the project covering the following topics:

- Meeting 1: Project kick-off
- Meeting 2: Inventory
- Meeting 3: Facility Requirements
- Meeting 4: Development Concepts
- Meeting 5: Final Recommended Plan

The City of Phoenix Aviation Department would like to acknowledge the time and effort put forth by the members of the TAC. Representatives from the following groups were members of the TAC:

- City of Phoenix Aviation Department
- Cutter Aviation
- Atlantic Aviation/Westwind School of Aeronautics
- TransPac Aviation Academy
- Phoenix Police Department Air Support Unit
- Phoenix Fire Department

- Deer Valley Pilots Association
- Honeywell
- FAA Air Traffic Control
- FAA PHX Airport District Office
- FAASTeam

The PAC was comprised of individuals representing organizations, agencies, and groups with a vested interest in the airport. The primary purpose of the PAC is to inform the community on the status of the project and solicit feedback on how the plans will affect the members represented constituents. The PAC met four times throughout the project covering the following topics:

- Meeting 1: Project Kick-off (project background, approach and inventory)
- Meeting 2: Facility Requirements
- Meeting 3: Development Concepts
- Meeting 4: Final Recommended Plan

The City of Phoenix Aviation Department would like to acknowledge the time and effort put forth by the members of the PAC. Representatives from the following groups were members of the PAC:

- City of Phoenix Aviation Department
- Arizona Department of Transportation – Aeronautics Division
- Deer Valley Village Planning Committee
- Phoenix Community and Economic Development Department
- Phoenix Planning and Development Department
- Luke Air Force Base
- Arizona Pilots Association
- Aircraft Owners and Pilots Association
- Phoenix City Council Representative
- Phoenix Aviation Advisory Board

In addition to the two committees, there were a total of four public meetings throughout the project which are open to the community at large. The meetings were held in the evenings at the Deer Valley Village Community Center. The purpose of the public meetings was to inform the public about the project and solicit feedback throughout the process. The meetings were held in a workshop format with boards displaying project information and Master Plan team members and City of Phoenix Aviation Department staff available to walk through the material and answer community questions and concerns. Input from community members and airport users that attended the meetings was incorporated into the final Master Plan Recommended Alternative.