Douglas Municipal Airport (DGL) Master Plan Planning Advisory Committee (PAC) Meeting #2

10/4/2016 from 1-3pm

Attendees for the Advisory Committee Meeting included:

- Kimley-Horn – Pam Keidel-Adams
- Kimley-Horn – Colin Wheeler
- Kimley-Horn – Thomas Gibson
- Genesis – Mary Ortega-Itsell
- Genesis – Rick Crosman
- Lisa Marra
- Luis Pedroza
- Miguel Gutierrez
- Lynn Kartchner
- Alejandro Teran
- Brandon Ritenour
- Timothy Merryman
- Carolyn Thompson
- Leslie Stimac
- Joey Barreras
- Neel Overman
- Ann Beeghly

The presentation from the meeting is provided at the conclusion of the meeting notes. The following summarizes the discussion from the second PAC meeting for the DGL Master Plan, organized around specific topics discussed during the meeting:

- **Lifeline**
  - Brandon from Lifeline noted that military helicopter traffic is increasing.
  - Lifeline is pursuing adding another turboprop aircraft (King Air) to fleet.
    - Fixed-wing is optimal for improved reliability.
  - Lifeline would like to upgrade hangar space to accommodate an additional fixed-wing aircraft.
    - Brandon will check on hangar specifics at other facilities for what they will need to accommodate all Lifeline aircraft.
    - Brandon will send this information to KHA.
  - Lifeline would like an approach added to the Airport for enhanced safety.
    - Carolyn Thompson said the airport could ask the FAA for an approach procedure.
- **Forecasts**
  - General consensus on based aircraft and operations projections.
  - Les Stimac agrees with the based aircraft forecast.
- **Airport Activity**
  - It was noted that UETA (Duty-Free Store) brought in limited jet activity from executives. UETA provided shuttle service for an event at the Airport.
  - Carolyn Thompson noted some of the traffic in the TFMSC database is primarily military doing training at DGL because they cannot get into Davis-Monthan Air Force Base.
- **GA Terminal**
  - For a potential location for the airport terminal, locations discussed included adjacent to the Border Air Museum, or on the west side of the primary aircraft parking apron. The

apron location was identified as the preferred location due to access. Existing fence may need to be removed or access gate installed.

- **Sources of Revenue**
  - The existing tower contract expires in one month. Existing staging area will be unused unless additional partner would like to use the space in the future.
- **Kimley-Horn Action Items**
  - KHA will inform City of Douglas how to submit their BAC information.
  - KHA to add the range of based aircraft forecasts – low, medium, high.

DOUGLAS
Municipal Airport
MASTER PLAN

PAC Meeting #2

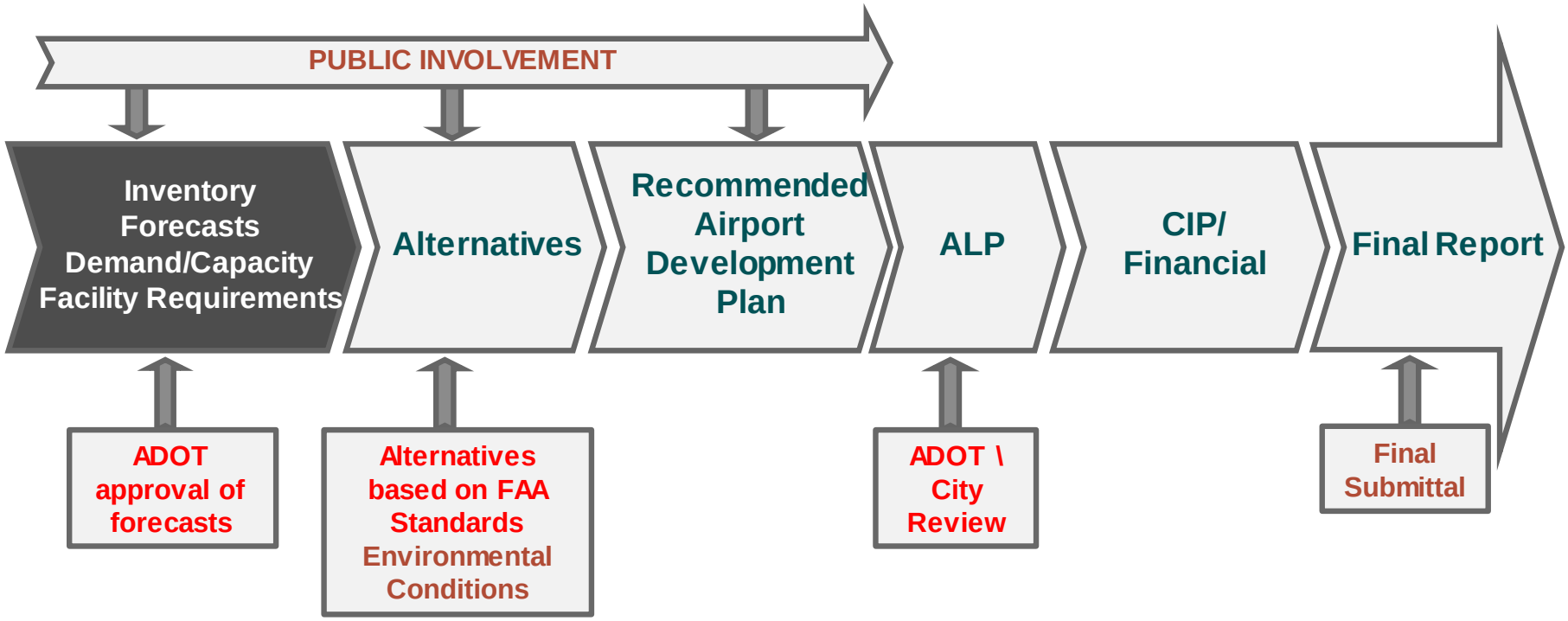
October 4, 2016

Kimley»Horn

Agenda

- Project Status Update
- Baseline Assumptions
- Inventory
- Forecast
- Initial Facility Requirements
- Airport Business Plan Update
- Next Steps

Master Plan Process



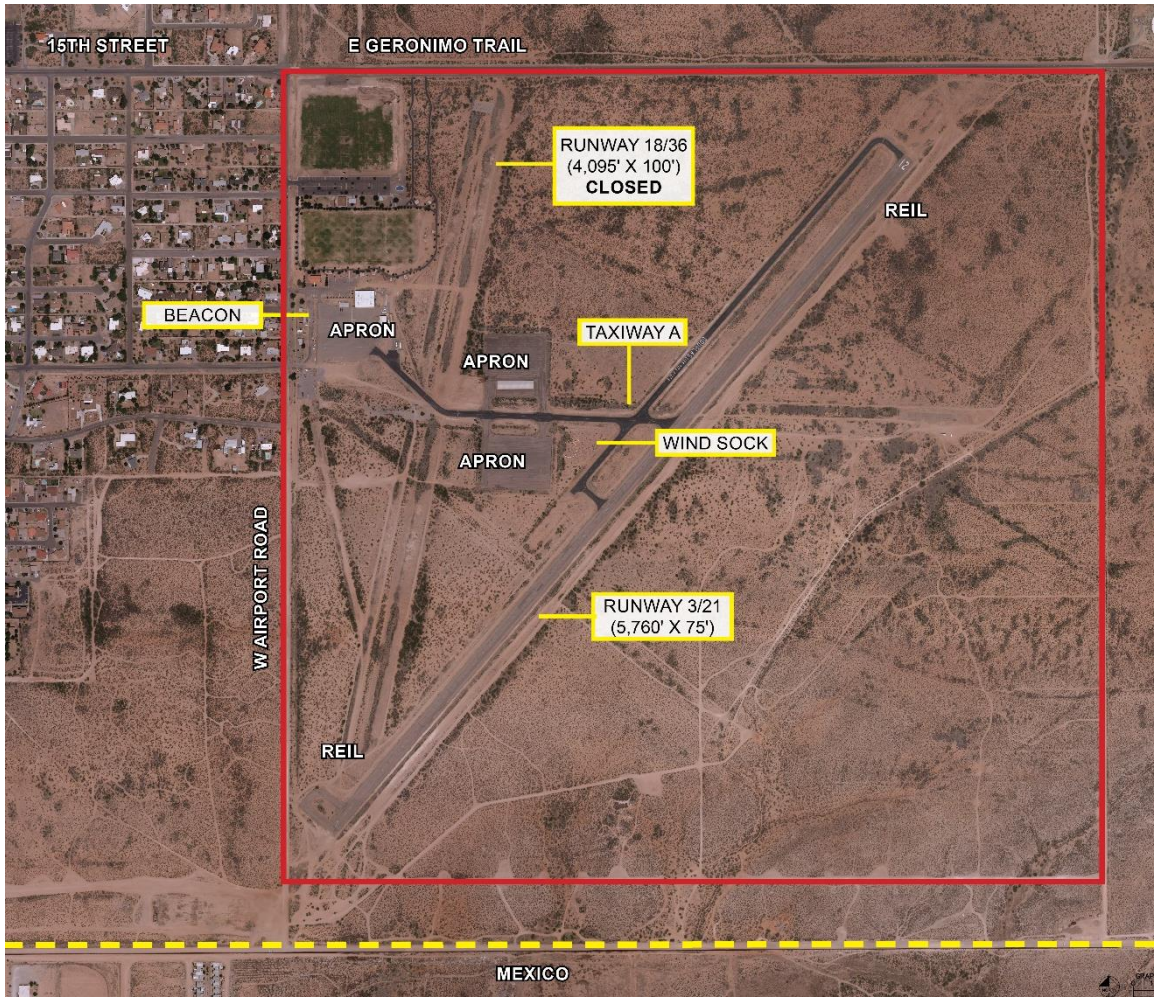
Baseline Assumptions

- DGL will continue to operate as a general aviation airport through the 20-year planning period
- DGL will continue to seek general aviation and small corporate business aviation based tenants and transient operations
- State aviation programs will be in place throughout the planning period to assist in funding future capital development needs

Inventory

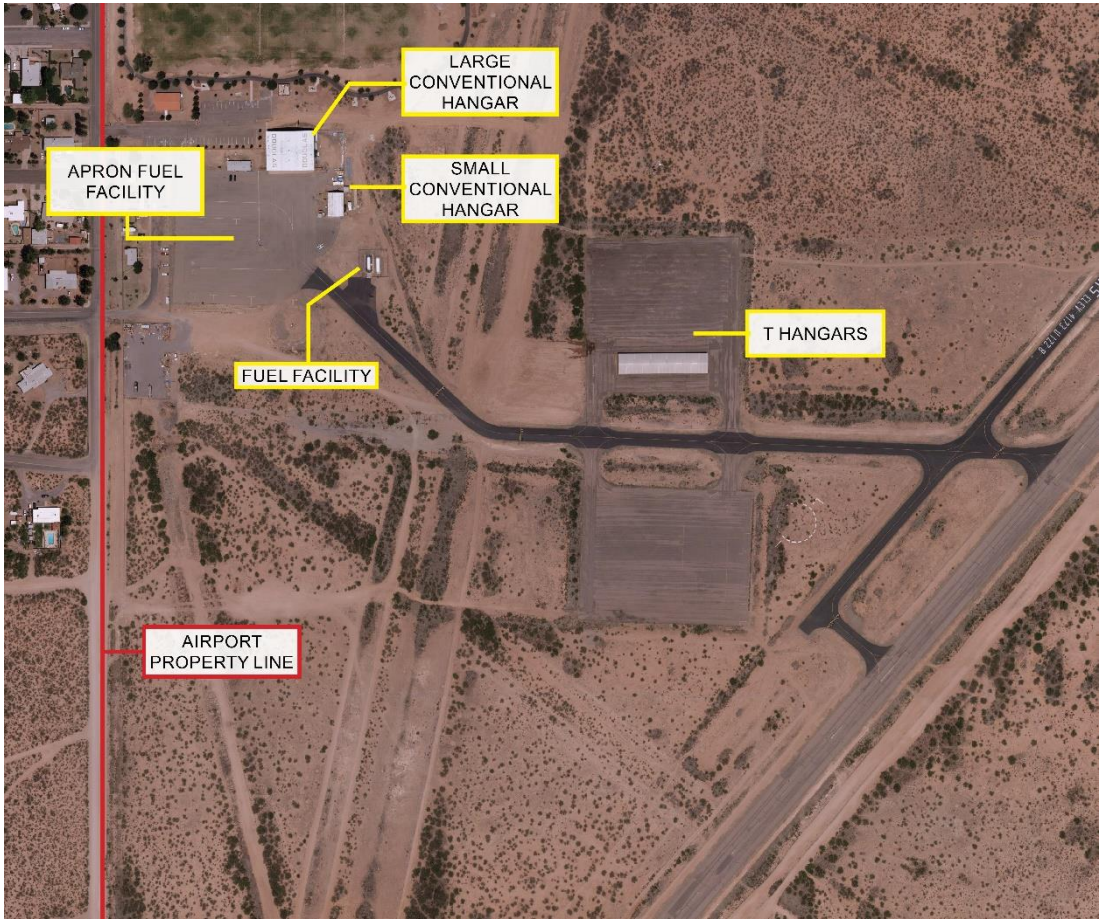
- **Airfield/Airside Facilities**
  - Runway (03/21), Taxiways, Aprons, NAVAIDs
- **Landside Facilities**
  - Aircraft Hangars and General Aviation Terminal
- **Support Facilities**
  - Airport Access and Circulation, Aviation Fuel Storage Facilities, and Airport Maintenance Facilities
- **Existing Activity**
  - Based Aircraft, Operations, Users

Airfield Facilities



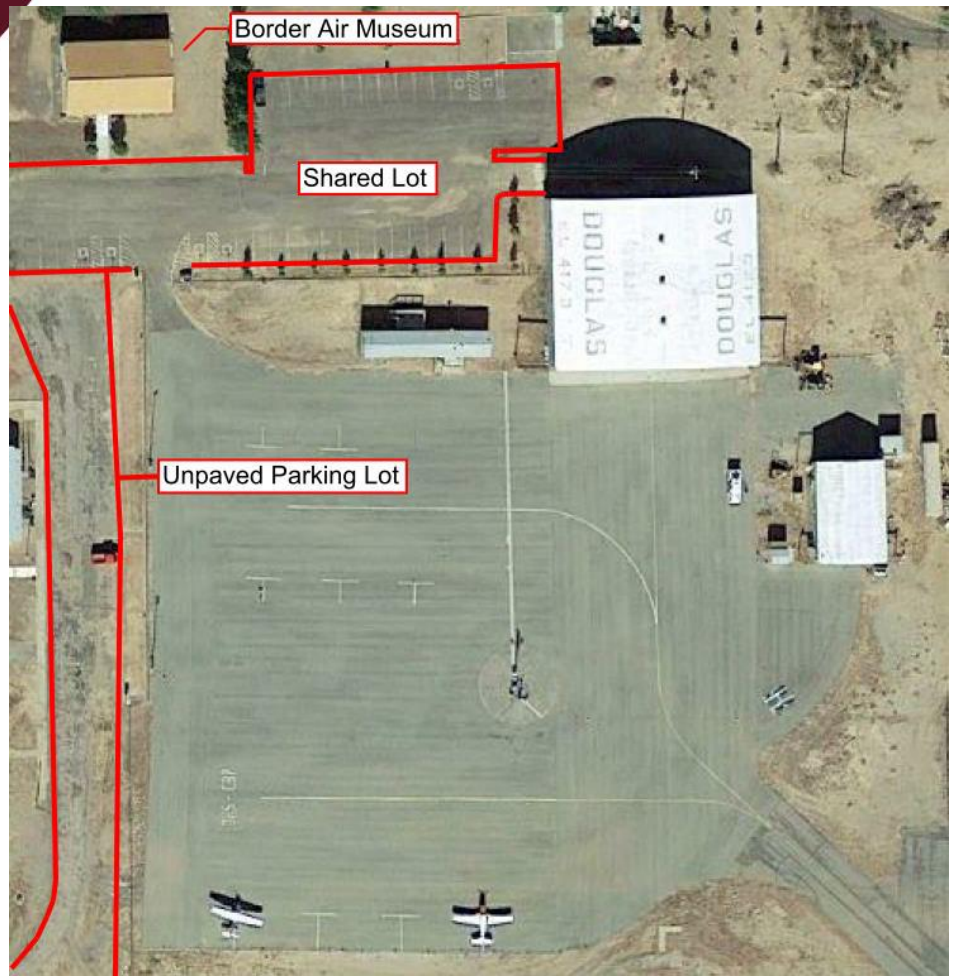
- Runway 03/21 - 5,760’ x 75’
- Partial Parallel Taxiway A
- ± 48,000 sf of Apron Space
- Airport Reference Code (ARC) = B-II

Landside/Support Facilities



- Fuel Facility = 12,000 gal. Jet A and AvGas
- 10-unit T-Hangar
- ± 15,000 sf. Aircraft Storage Hangars

Existing Auto Parking



- 30 paved – shared with Border Air Museum
- Unpaved area outside fence (20 spots)

DGL - Historical Aviation Activity

Year	Based Aircraft	Annual Operations
2007	27	11,000
2016	12	2,600
Change 2007-2016	(15)	(8,400)

Sources: 2008 Arizona State Airports System Plan, Airport Management and Tenant

- Reliability of ASASP estimates for 2007
- Decline in activity typical at smaller GA airports
- Large number of nearby airports

DGL Based Aircraft Fleet Mix

Aircraft Type	Aircraft Class
Cessna Skylane II	Single-Piston
Centurion II	Single-Piston
Stationair	Single-Piston
Cessna 206	Single-Piston
Aero Pulsar	Single-Piston
Antonov AN2	Single-Piston
Beech Baron	Single-Piston
Cessna 172	Single-Piston
Cessna 172	Single-Piston
Cessna 182	Single-Piston
Piper Seminole	Twin-Piston
Bell 407	Helicopter

Source: Airport Management

Local Socioeconomic Trends

	2011 Population	2015 Population	2011 PCPI	2015 PCPI
City of Douglas	17,555	16,592	N/A	N/A
Cochise County	134,154	143,610	$37,989	$39,014
State of Arizona	6,538,126	7,035,670	$38,664	$39,826

Source: Woods and Poole, Inc. U.S. Census Bureau

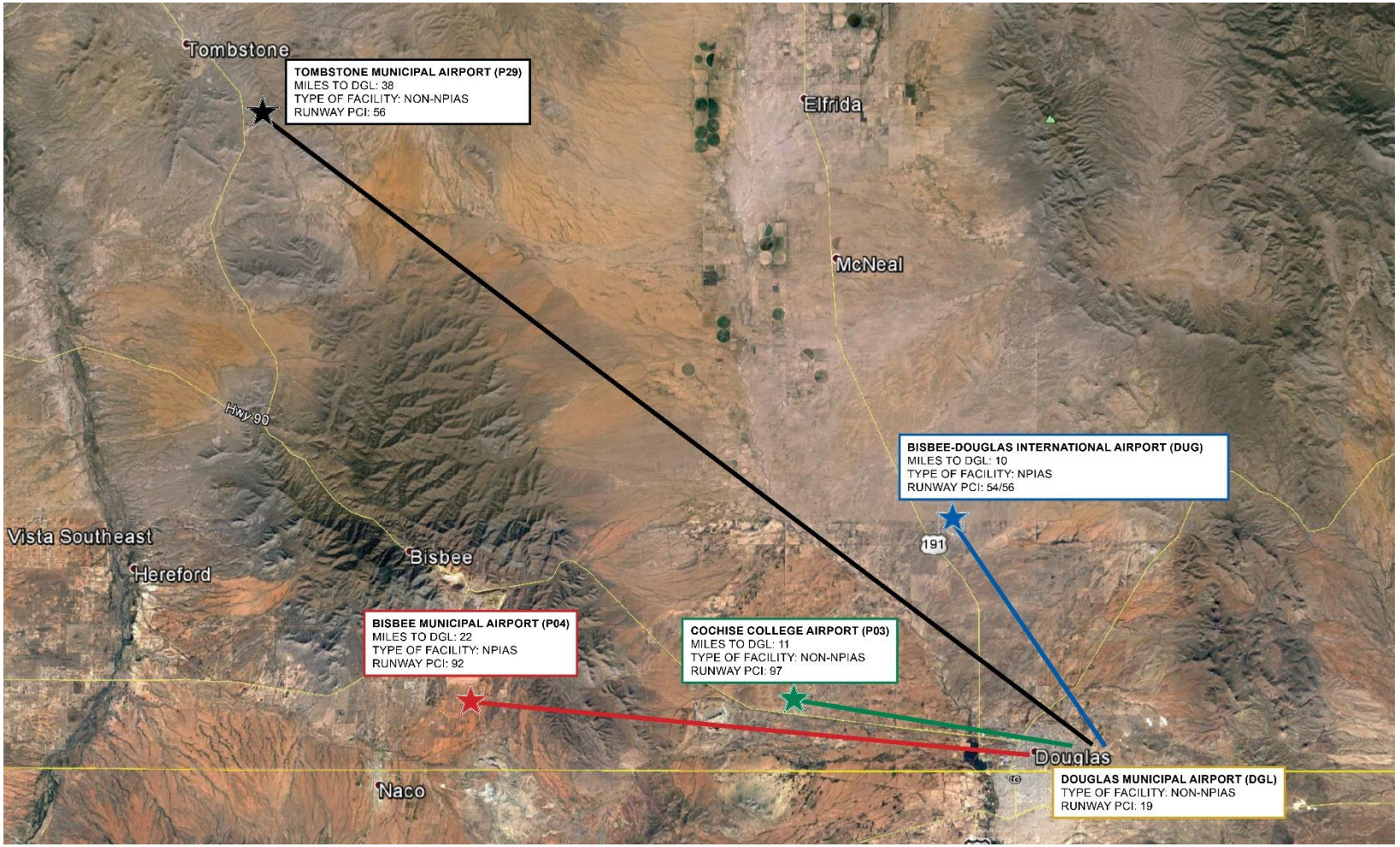
- City of Douglas population slight decline 2011-2015
- Cochise County population and income increased 2011-2015, employment declined slightly
- County income lower than State average

Environmental Considerations

- DGL is located in a non-attainment area for sulfur dioxide (lower air quality than National Ambient Air Quality Standards) – attributed to climate, elevation, wildfires, pollution migration from Mexico and California
- Cochise County is home to several threatened and endangered species including amphibians, birds, fish, flowering plants, mammals, and reptiles

DOUGLAS MUNICIPAL AIRPORT MASTER PLAN

DGL – Regional Airport Map



Kimley»Horn

Regional Airport Characteristics

Airport	NPIAS	ASSET Classification	ADOT Classification	2016 Based Aircraft	2016 Aircraft Operations
Douglas Municipal	No		GA-Community	12	2,600
Bisbee-Douglas International	Yes	Local	GA-Rural	5	19,700
Cochise College	No		GA-Rural	15	47,050
Bisbee Municipal	Yes	Basic	GA-Community	24	2,900
Tombstone Municipal	No		GA-Basic	2	340

Sources: Douglas Municipal Airport, 5010 Airport Master Record

Forecast Process

- Examine trends
  - Socioeconomic
  - National, state, and regional aviation
- Review historical Airport activity
  - Based aircraft
  - Operations
- Apply multiple methodologies – assume facilities will be developed to support demand
- Select preferred forecasts

Forecast Elements

- Based Aircraft
- Aircraft Operations
- Regional Operational Demand Analysis
- Operations by Aircraft Type

Sources for Forecast Data

- 2008 Arizona State Airports System Plan
- DGL Airport Management and Tenant
- FAA Traffic Flow Management System Counts (TFMSC)
- Airport 5010 Master Record

Based Aircraft Methodologies

Historical	Population Variable BAC	Employment Variable BAC	PCPI Variable BAC	Total Retail Sales Variable BAC	AZ Market Share Variable BAC	Regional Market Share Variable BAC
2016	12	12	12	12	12	12
Projected						
2021	13	13	13	14	13	13
2026	14	14	14	15	14	13
2036	16	17	17	20	16	14
CAGR 2016-2036	1.45%	1.79%	1.76%	2.51%	1.58%	0.77%

CAGR = Compounded Annual Growth Rate. CAGR is a measurement that calculates a constant rate of change.
Sources: Airport Management, Woods and Poole Economics, Inc., Kimley-Horn and Associates

Operations Methodologies

Historical	Population Variable Operations	Employment Variable Operations	PCPI Variable Operations	Total Retail Sales Variable Operations	AZ Market Share Variable Operations	Regional Market Share Variable Operations	OPBA Variable
2016	2,600	2,600	2,600	2,600	2,600	2,600	2,600
Projected							
2021	2,820	2,830	2,800	2,950	2,630	2,860	2,820
2026	3,030	3,090	3,040	3,340	2,670	3,030	2,820
2036	3,470	3,710	3,680	4,270	2,750	3,580	3,030
CAGR 2016-2036	1.45%	1.79%	1.76%	2.51%	0.27%	1.61%	0.77%

Sources: Woods and Poole Economics, Inc., Airport Management and tenant estimates, Kimley-Horn and Associates

Regional Demand Analysis

Aircraft Classification	2013 Operations	2014 Operations	% Change	2015 Operations	% Change	% Change 2013-2015
Douglas Municipal Airport						
Turbo-Prop	10	7	-30%	54	671.4%	440.0%
Jet	4	28	600.0%	25	-10.7%	525.0%
Total	14	35	150.0%	79	125.7%	464.3%
Bisbee-Douglas International Airport (DUG)						
Turbo-Prop	38	62	62.3%	35	-43.5%	-7.9%
Jet	83	65	-21.7%	58	-10.8%	-30.1%
Total	121	127	5.0%	93	-26.8%	-23.1%
Bisbee Municipal Airport (P04)						
Turbo-Prop	10	4	-60.0%	4	0.0%	-60.0%
Jet		4	100.0%	3	-25.0%	100.0%
Total	10	8	-20.0%	7	-12.5%	-30.0%
Cochise College Airport (P03)						
Turbo-Prop	0	0	0.0%	7	100.0%	100.0%
Jet	0	0	0.0%	0	0.0%	0.0%
Total	0	0	0.0%	0	100.0%	100.0%

Source: FAA Traffic Flow Management System Counts (TFMSC) Database

Regional Demand Analysis

- Jet and Turbo Prop operations at DGL increased 2013-2015
- Proximity of airport to Douglas and U.S./Mexico Border
- Availability of 24-hour fueling
- Maquiladoras utilizing DGL more regularly

Operations by Aircraft Type

Year	Total Ops	Single-Engine		Multi-Engine		Jet		Helicopter		Turbo-Prop	
2016	2,600	27%	700	1%	30	1%	30	70%	1,810	1%	30
Projected											
2021	2,820	29%	830	1%	30	1%	40	68%	1,890	1%	30
2026	3,030	31%	920	1%	30	2%	50	66%	2,000	1%	30
2036	3,580	35%	1,250	1%	40	2%	70	61%	2,180	1%	40
CAGR 2016-2036	1.61%		2.93%		1.61%		5.19%		0.91%		1.61%

Source: Airport tenant estimates, Kimley-Horn and Associates

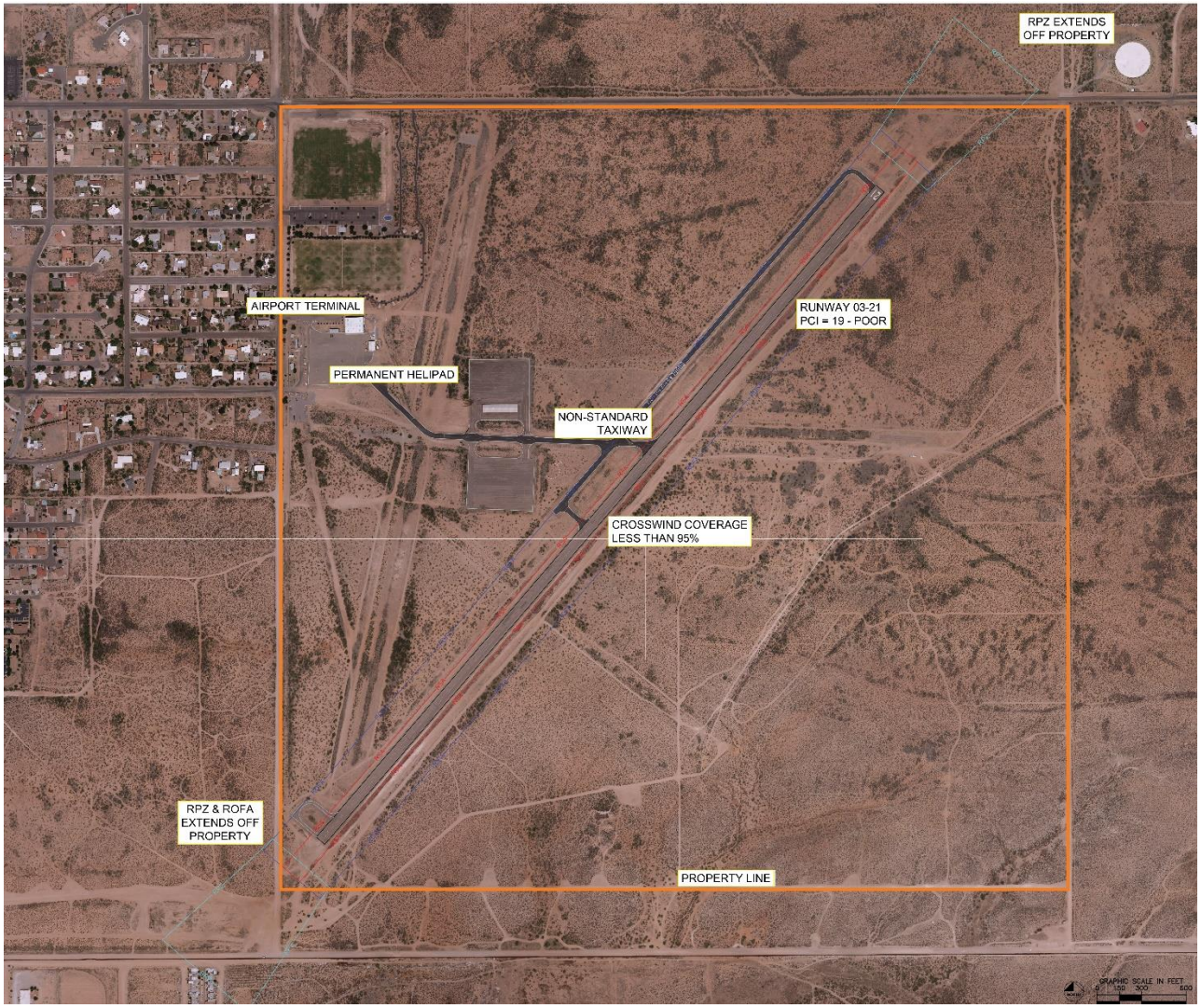
Facility Requirements Process

- Compare forecast needs to existing facilities
  - Airfield
  - Landside
  - Support facilities
- Results of Facility Requirements are used to derive preliminary alternatives

Initial Analysis of Facility Requirements

- Remove or light any obstacles
- Installation of a weather reporting station
- Reconstruct Runway 03-21 to pavement strength of 12,500 lbs. (Current PCI is 19)
- Reconstruct turnaround taxiways
- Construct permanent helipad
- Construct terminal facility
- Crosswind runway (current coverage less than 95%)
- Others?

DOUGLAS MUNICIPAL AIRPORT
MASTER PLAN



Kimley»Horn

PAC Feedback

- Inventory and Forecast chapter comments
- Potential location of proposed facilities
- Additional facility or other needs?

Airport Business Plan

- **Discussion of Initial Feedback from ABP Meeting**

Next Steps

- Complete Facility Requirements Chapter
- Draft Alternatives Chapter
- Initiate ALP Set
- Continue with Business Plan
- Next PAC Meeting Jan. 2017 to discuss Alternatives and Draft Recommended Plan

DOUGLAS MUNICIPAL AIRPORT MASTER PLAN

Project Schedule

		Months after Notice-to-Proceed											
Number	Task Name	1	2	3	4	5	6	7	8	9	10	11	12
		May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	March	April
1	Pre-planning and Project Initiation	■											
2	Coordination and Public Outreach	■	■	■	■	■	■	■	■	■	■	■	■
3	Introduction and Inventory	■	■	■									
4	Forecasts			■	■								
5	Demand/Capacity and Facility Requirements					■	■	■					
6	Airport Alternatives							■	■				
7	Airport Development Plans (MPU Concept)									■	■		
8	Financial Management and Development Program								■	■	■	■	
9	Airport Layout Plans												■
10	Airport Business Plan	■	■	■	■	■	■	■	■	■	■	■	■
	Kick-Off Meeting Overview of Business Plan Process		△										
	SWOT Analysis					△							
	Working Paper Nol. 1						△						
	Business Plan Alternatives							△					
	Business Plan Development Ares									△			
	Priority Reconciliation with Financial & Airport Develop									△			
	Working Paper No 2									△			
	Final Document												
11	Final Reports and Approvals										△		■
	Local Coordination Meeting										●		
	PAC and/or Business Plan Working Group Meeting		▲			▲				▲			▲
	Public Workshop					★				★			★

Legend	
●	Local Coordination Meeting
△	Business Plan Working Group Meeting
▲	PAC Meeting
★	Public Workshop
■	Task Work Underway

Kimley»Horn

Project Contact Information

- **Pam Keidel-Adams**
  - Pam.Keidel-Adams@Kimley-Horn.com
  - 602-678-3422
- **Colin Wheeler**
  - Colin.wheeler@Kimley-Horn.com
  - 602-678-3417
- **Mary Ortega-Itsell (Genesis)**
  - mary@genesis-aviation.com
  - 210-488-1019
- **Project Website**
  - http://www.douglasaz.org/amp

DOUGLAS MUNICIPAL AIRPORT MASTER PLAN

Sign-In Sheet:

Initials	Name	Organization / Involvement	Phone	Email
Cochise County				
	Jay Howe	Facilities Director	520-432-9380	jhowe@cochise.az.gov
	Lisa Marra	Communications & Community Relations Administrator	520-432-9742	lmarra@cochise.az.gov
SEAGO				
	Larry Catten	Economic Development Planner	520-432-2622	lcatten@seago.org
Tucson Hispanic Chamber of Commerce-Douglas Affiliate				
	Arturo Escalante	Membership Director	520-620-0005	arturo@tucsonhispanicchamber.org
Greater Douglas Chamber of Commerce				
	Nubia Romo	President	520-364-2477	
City of Douglas				
	Luis Pedroza	City Treasurer/Finance Director	520-417-7319	Luis.pedroza@douglasaz.gov
	Miguel Gutierrez	Airport Attendant	520-417-7329	miguel.gutierrez@douglasaz.gov
	Max Tapia	Streets Supervisor	520-727-1773	Max.tapia@douglasaz.gov
	Lynn Kartchner	City Engineer		Lynn.kartchner@douglasaz.gov
	Alejandro Teran	Airport Attendant	520-234-5178	alejandro.teran@douglasaz.gov
Arizona Lifeline (Air Ambulance)				
	Gale Clawson	Medical Manager	520-349-5399	gale.clawson@med-trans.net
	Brandon Ritenour	Base Manager	520-227-6657	Brandon.Ritenour@med-trans.net
Cochise College				
Border Patrol				
	Jorge Roman	Border Community Liaison	520-805-6912	jorge.o.roman@dhs.gov
TAKATA				
	Hector Quijada	Area Manager	520-364-2171	hector.quijada@takata.com
ADOT/Aeronautics Group				
	Matt Smith	Airport Grants Manager	602-712-7597	Msmith3@azdot.gov
Ft. Huachuca				

DOUGLAS MUNICIPAL AIRPORT MASTER PLAN

Initials	Name	Organization / Involvement	Phone	Email
TLM	Timothy Merrymon	Director of Public Works	520-533-5125	timothy.l.merrymon.civ@mail.mil
CT	Carolyn Thompson	Libby Airfield Manager	520-538-2891	Carolyn.y.thompson2.civ@mail.mil
Airport Authority Board				
	Leslie Stimac ★	Airport Advisory Board	520.364.9344 818.903.3219	drstim@email.com
	Tom Hanigan		520.236.5175	vansav699699@yahoo.com
	Joey Barreras ★		520.456.7510	twfin@hotmail.com
	Neel Overman ★		520.364.5282 520.727.1282	eno_az@hotmail.com
	Bill Wendt		520.364.5218 520.249.5964	shortstop11@mac.com
	Carlos Fernandez		520.227.7267	cfenterprises@theriver.com
	Ken Nelson	City of Douglas Ward 2 Councilmen	520.220.1996	ken.nelson@douglasaz.gov
	Carlos De La Torre,			
City of Bisbee				
	Andy Haratyk	Interim Public Works Director	520-432-6262	aharatyk@bisbeeaz.gov
Consultant Team				
	Pam Keidel-Adams	Kimley-Horn – Project Manager	602-678-3422	Pam.keidel-adams@kimley-horn.com
CW	Colin Wheeler	Kimley-Horn – Senior Planner	602-678-3417	Colin.wheeler@kimley-horn.com
	Tammy Martelle	Kimley-Horn – Grants Manager	602-678-3421	Tammy.martelle@kimleyhorn.com
MOI	Mary Ortega-Itsell	Genesis Consulting Group – Principal	210-488-1019	mary@genesis-aviation.com
RC	Rick Crosman	Genesis Consulting Group – Principal Planner	970-209-5117	Rick@genesis-aviation.com
Other Parties				
	Ann Beeghly ★	Shady Place Inc Hangars	214 925 8661	aebeeg@gmail.com