WELCOME

Please Sign In

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Meeting Format





Project Team Introductions





Presentation Overview

- 1. Master Plan Overview, Purpose and Schedule
- 2. Noise / Air Quality Overview
- 3. Economic Impact Analysis
- 4. Introduction toDraft Alternatives
 - 1. Airside
 - 2. Landside
- 5. Next Steps





1. Master Plan Overview, Purpose and Schedule





What is a Master Plan

"...a comprehensive study of an airport [that] usually describes the short-, medium-, and long-term development plans to meet future aviation demand."

- FAA Advisory Circular 150/5070-6B, Airport Master Plans





Why now?

- > Last City adopted Master Plan was completed in 1980
- > Recommended in City Performance Audit
- >New FAA Design Standards
- > Transformational changes in aviation
- > Updated and approved Airport Layout Plan required for FAA funding





Master Plan Objectives

1. What do you have?

- Existing conditions
- Inventory of assets
- Obtain stakeholder input

 Aviation forecasts (FAA reviews and

2. What

do you

need or

want?

approves)

- Demand and capacity analysis
- Obtain stakeholder and public input

• Determine alternatives

3. How

do you

get it?

- Select the best alternative
- Prepare an implementat ion plan
- Obtain stakeholder and public input



Airport

Master

Plan



Master Plan Steps

1. Data Collection

Airport inventory Environmental setting Related studies Historical activity review

2. Forecast

Aircraft operations Fleet mix/based aircraft Peaking characteristics FAA approval

3. Facility Requirements

Airfield design Landside development/support





Master Plan Steps

4. Alternatives

Reasonable and practical Formulate evaluation criteria Matrix evaluation

5. Preferred alternative /CEQA analysis

City selects preferred alternative

Conduct CEQA analysis Financial plan Master plan adoption and ALP approval City adopts the plan

FAA approves Airport Layout Plan





Roles and Responsibilities





Roles and Responsibilities





2. Noise / Air Quality Overview





Outline

- > Modeling Approach
- > Noise Metric Definitions
- > Noise Results
 - > Annual Average Day Operations
 - > CNEL 2017 Baseline Noise Contours
- > Air Quality Results





Modeling Approach

- > Noise and air quality modeled using Aviation Environmental Design Tool
- > Required Modeling Inputs
 - > Airport Configuration
 - > Fleet Mix and Operations
 - > Runway Use
 - > Model Flight Tracks
 - > Flight Track Use
 - > Meteorological Conditions
 - > Terrain





Sound is pressure variation our ears can detect
An objective quantity

- > Noise is "unwanted sound"
 - > A subjective quantity

> We relate sound and noise by considering effects

- > Annoyance
- > Speech interference
- > Sleep disruption



Airports



- >We use a logarithmic scale decibels, or dB to express sound levels and noise levels
- > Our ear is not equally sensitive to all frequencies
 - >A-weighted decibels (dB) measure sound the way we "hear" it
- > The simplest way to describe a noise "event" is its maximum sound level, Lmax
- > A longer event may seem "noisier," even if it has a lower or equal maximum level





> SEL measures the total "noisiness" of an event by taking duration into account





> Community Noise Equivalent Level (CNEL)

- > Describes 24-hour noise exposure
- > Noise from 7 PM 10 PM is factored up by 4.77 dB
- > Noise from 10 PM 7 AM is factored up by 10 dB
 - > This "penalty" is equal to counting each night aircraft 10 times





Average Annual Day Operations







2017 Baseline CNEL Noise Contour







Air Quality: Overview

- > The EPA has also identified Criteria Pollutants to be part of the National Ambient Air Quality Standards (NAAQS), which are protective of human health.
- > Each state or region can specify their own pollutant levels (that may be more stringent) with mandated levels set by EPA as minimum requirements.
- > De minimus levels define threshold of increased pollutants indicating impacts in nonattainment areas.1

> Typically 100 tons per year





Air Quality Results

>Criteria Air Pollutants

- > Carbon monoxide (CO)
- > Nitrogen dioxide (NO2)
- > Particulate matter (PM10)
- > Particulate matter (PM2.5)
- > Sulfur dioxide (SO2)
- > Lead (Pb)
- > Ozone (O3)

Note: Ozone is an indirect or secondary pollutant that occurs due to chemical reactions primarily between NO2 and volatile organic compounds (VOCs). As a result, volatile organic compounds (VOCs) and NO2, the primary precursors to ozone formation, provide surrogate information for assessing ozone levels.





Air Quality Results

> Compared to EPA de minimis levels, SDM emissions fall well below the limits for the baseline; impacts are considered insignificant.

Airport	Со	No _x	PM10	PM2.5	SO ₂	VOC	Lead (Pb)	CO2
SDM Aircraft – Total	1.537	0.018	0.002	0.002	0.004	0.049	0.572	11.240

Notes:

1. Results expressed in metric tons.

2. Carbon dioxide (CO₂) emissions as a greenhouse gas, though this estimation does not account for the varying greenhouse gases and their associated emissions factors in comparison to CO₂.





3. Economic Impact Analysis





Economic Impact Analysis

- > Airport and Tenant Operations
- Multipliers: On-Site Activity -> Off-Site Activity
 - Local effect (MYF) leads to regional effect (SD County)
- > Methodology
 - > Input-Output Modeling
 - > Primary and Secondary Data
 - > Site Visits





Multiplier Effects







Economic Measures





Airport Operations

- > 25 On-Site Jobs
- Industry Output: \$4.3 million
- > Labor Income: \$1.5 million





Airport Operations



- > 25 On-Site Jobs = 60.1 Total Jobs
- > Output: \$4.3M On-Site = \$9.4M Total
- Income: \$1.5M On-Site = \$3.6M Total





Tenant Operations

- > 35 On-Site Jobs
- Industry Output: \$4.8 million
- > Labor Income: \$1.9 million





Tenant Operations



- > 35 On-Site Jobs = 74 Total Jobs
- > Output: \$4.8M On-Site = \$10.5M Total
- Income: \$1.9M On-Site = \$4.2M Total





Overall Operations

- > 60 On-Site Jobs, 134 Total Jobs
- > Output: \$9.2M On-Site, \$19.8M Total
- Income: \$3.4M On-Site, \$7.7M Total





Largest Secondary Effects

- > Public Sector
- > Transportation and Warehousing
- > Health Care
- > Retail Trade
- > Professional Services
- Hospitality (Accommodation and Food Service)





Next Steps

- > Future Impacts
- > Fiscal Impact Analysis





4. Introduction to Alternatives




Alternatives Analysis



Airside vs. Landside



Airside 📒

Landside





Airside Draft Alternatives





Alternative #1 No Action



















Landside Draft Alternatives





Alternative #1 No Action

























DRAFT MAP Alternative







5. Next Steps





Next Steps



Ongoing Public Outreach

ALP – Airport Layout Plan CEQA – California Environmental Quality Act FFA – Financial Feasibility Analysis





Next Steps













Ground Rules

- > Speak Clearly and Slowly
- > State Your Name and Association
- > One Question Per Person
- > Help Us Stay on Track
- > Focus on New Input

Verbal comments and questions are *not* being recorded. Please provide your comments in writing for consideration and evaluation by the project team.



