

Aeronautics' Agenda

- What is the role of the Division of Aeronautics?
- Developing a new perception of aviation in California
- How Caltrans Transportation Planning Programs can integrate aviation
- Redefine the role of a *Multimodal* Transportation Planner

Objectives:

What: Increase awareness of aviation, beyond the airport runway and hangars

How: Define the various programs that will continuously integrate aviation

Who: Explain Your Role as a *multimodal* Transportation Planner



Changing Perceptions

Airports are regional economic engines!

- Aircraft are flown to regional community aviation commerce centers, more commonly known as airports, which come in all sizes
- Airports have become mixed use development centers, or multi-functional hubs for conducting business, commerce and transportation...



Division Overview

Aeronautics Offices and Specialty Areas:

- Office of Aviation System Planning
- Office of Airports
- Office of Technical Services & Programs
- Other Specialty Areas:
 - Funding, Aviation Noise, Environmental Review, Legislative News & Information



Division of Aeronautics

Mission and Goals

- Foster development to improve the California air transportation system throughout the State
- Promote aviation safety while preserving the environment
- Introduce context-sensitive, sustainable solutions



State, Federal and Other Aviation Partners

State:

- Department of Education (DOE)
- Department of Fish and Game (DF&G)
- California Energy Commission (CEC)
- Governor's Office of Planning and Research (OPR)

Federal:

- Federal Aviation Administration (FAA)
- U.S. Department of Defense (DOD)
- U.S. Department of Agriculture (USDA) – Wildlife Services
- U.S. Department of Transportation (USDOT), Transportation Research Board (TRB) – Airport Cooperative Research Program (ACRP) research studies and reports

Private Non-Government Organizations:

- National Association of State Aviation Officials (NASAO)
- National Business Aircraft Association (NBAA)
- Airplane Owners & Pilots Association (AOPA)
- Association of California Airports (ACA)
- California Airports Council (CAC)



Division Core Functions

Aeronautics' General Internal Functions:

- Aviation Land Use, Environmental and System Planning, Airport Safety Compliance Inspections, Airport Project Funding & Engineering, and Aircraft Noise, manage one loan and three grant programs

Oversee safety at 836 permitted aeronautical facilities

- 246 public-use airports, 65 Special Use Airports, 156 hospital heliports, 49 police heliports and 38 fire heliports

Leverage Federal Aviation Administration Airport Improvement Plan (AIP) Grants with State AIP Matching Grants

- FAA AIP Grants pay up to 95 percent of project cost (\$238 M, FY 2010/11)
- State AIP Matching Grants pay 2.5 percent of the federal AIP Grant (\$487,476, FY 2010/11)
- FAA Reauthorization caused the FAA 2012 AIP Grant amount to decrease from 95 to 90 percent; the State AIP Match Grant amount increased from 2.5 to 5.0 percent (Approved by CTC in May 2012).

Provide airport sponsors aeronautical expertise and technical assistance

- Planner, engineer and inspector teams are integral to addressing the State's aviation issues





Division of Aeronautics

Gary Cathey, Chief
(916) 654-5470



Airport Noise Program & Environmental Review Philip Crimmins (916) 654-6223

- ❖ Administer California airport noise regulations
- ❖ Review and comment on environmental documents for airport related local developments

Resource Management Sanaz Javadinejad (916) 654-4389

- ❖ Administer operating and capital budgets
- ❖ Administrative and personnel activities support

Grants and Loans Tony Sordello (916) 654-4718

- ❖ Manage grants and loans to airports for capital improvement projects

Office of Airports Jeff Brown, Chief (916) 654-4565

- ❖ Conduct public-use airport/heliport and hospital heliport safety and permit compliance inspections
- ❖ Under Federal Aviation Administration contract, conduct inspections and update Airport Master Records for specified public-use airports
- ❖ Review and assess new, amended, and corrected airport/heliport permit applications, including plans check/approval, site visits, final permit inspections, and issuing of permits.
- ❖ Evaluate proposed K-12 school, Community College, and State building sites within 2-nautical miles of an airport
- ❖ Manage the Helicopter Landing Authorization (HLA) program for evaluation and authorization of helicopter landings within 1,000 feet of K-12 schools
- ❖ Host and maintain the hospital heliport dataplates information system
- ❖ Oversee development of and updates to the California aeronautical chart
- ❖ Work with federal, state, and local agencies on facility, airspace, and other aviation matters
- ❖ Assist and guide current and prospective airport/heliport owners, managers, and consultants with permitting, regulatory, and other aviation issues
- ❖ Respond to State aeronautics-related requests and questions from the public

Office of Aviation Planning Terry Barrie, Chief (916) 654-4151

- ❖ Develop State aviation planning policies and participate in the development of Federal planning policies
- ❖ Participate in intermodal planning and regional aviation system planning with cities, counties, MPOs, RTPAs and various Caltrans Divisions and Districts statewide
- ❖ Review, comment and develop guidelines for aviation-related activities in MPO's and RTPA's Regional Transportation Plans, Overall Work Programs, and cities and counties airport master plans
- ❖ Update California Aviation System Plan elements; Develop and publish Airport Land Use Planning Handbook; review and comment on Airport Land Use Compatibility Plans (ALUCPs) and city and county land use decision override letters regarding the ALUCP
- ❖ Analyze aviation's influence on the State's economy
- ❖ Aviation liaison for Caltrans Divisions including aviation-related research activities, transportation information, and goods movement
- ❖ Pursue State and Federal grants to facilitate aviation system advancement
- ❖ Collect and disseminate aviation statistics
- ❖ Analyze and monitor Federal and State aviation legislation

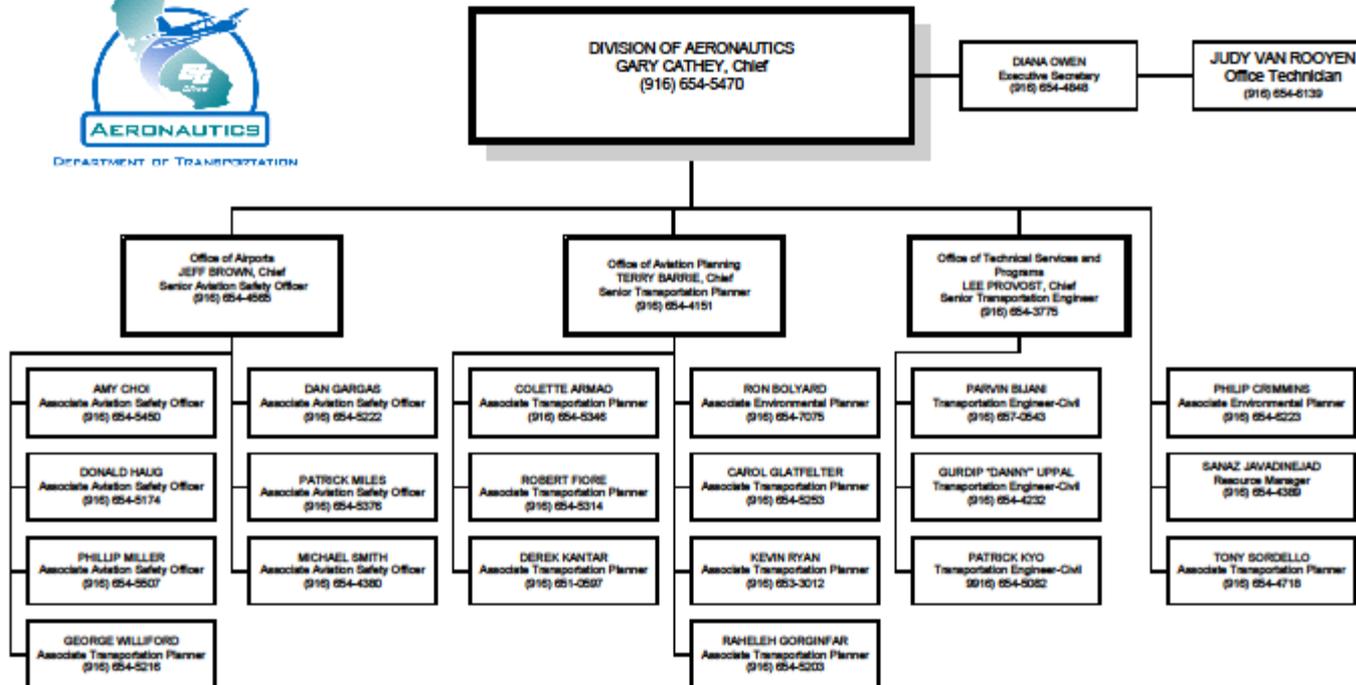
Office of Technical Services Lee Provost, Chief (916) 654-3775

- ❖ Develop the statewide Capital Improvement Plan (CIP) for aviation needs and provide airport sponsor guidance.
- ❖ Prepare and Manage the State Aeronautics Program
- ❖ Provide engineering assistance to local governments on airport capital improvement projects under the California Aid to Airports Program (CAAP)
- ❖ Review or manage State general aviation loans and Acquisition & Development grants
- ❖ Develop and manage federal grant contracts awarded from the Federal Aviation Administration Airport Improvement Program to support general aviation
- ❖ Manage Airport IQ System Management (ASM) database and provide technical assistance to airport sponsors to update airport CIP project lists
- ❖ Conduct public meetings to share information with stakeholder groups in conjunction with Federal Aviation Administration, the Association of California Airports, and others
- ❖ Evaluate land use compatibility and proposed school sites near airports by developing site specific maps using AutoCAD
- ❖ Maintain and update the Airport Pavement Management System (APMS) that identifies needs and estimates capital outlay costs

"California Improves Mobility Across California"

JUNE 2012





Defining the Role of Aeronautics

Federal Aviation Administration (FAA):

- Certify and perform safety compliance inspections of Part 139 Commercial Service Airports
- Manage FAA Airport Improvement Program (AIP) funding grants for National Plan of Integrated Airport Systems (NPIAS)
- Regulate airspace, airport security, aircraft, pilots, and aircraft mechanics

State of California (Caltrans):

- Issue airport and heliport permits and conduct permit compliance safety inspections
- Site evaluation of proposed state buildings, public schools and community colleges
- Provide airport sponsors grants and loans in support of General Aviation from the California Aid to Airports Program (CAAP)
- Provide technical expertise in the areas of engineering, land use, aircraft noise, environment and planning as related to aviation

Airport Sponsor:

- Facility Owner/Operator
- Maintenance
- Provide local matching funds for FAA AIP grants
- Provide for operational airport safety



Why Aviation is Important to California

Aviation in California:

- Provides for commerce centers that are vital for the movement of goods and people
- Contributes nearly 9% of State employment and output – direct and indirect spending:
 - Produced \$111 billion worth of goods and services
 - Employs 1.7 million people
 - 65,116 active licensed pilot community, 11% of US total
 - 37,437 registered aircraft, 10 % of US total
- Passenger Service airports contribution:
 - 1,380,230 jobs, \$44.1 million payroll, \$158.0 billion in output



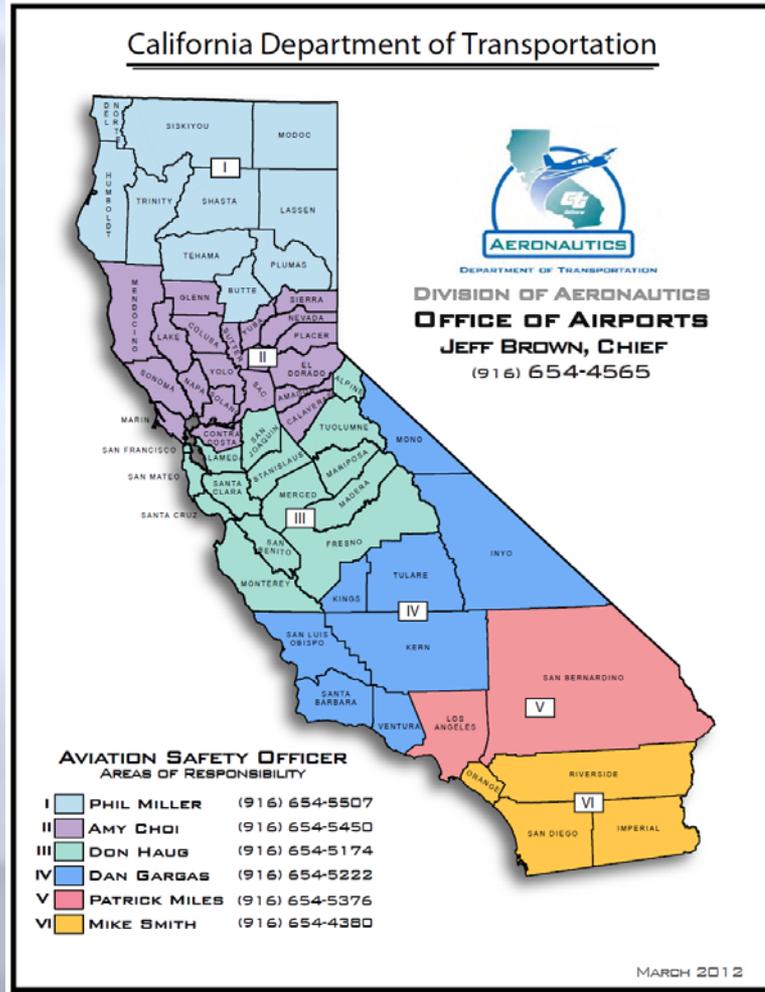
Why Aviation is Important to California

(cont'd)

- Airports facilitate international and domestic trade
- They are necessary for “just-in-time” production and delivery
- Each is an essential component of the State’s emergency response and disaster recovery operations
- Aviation provides convenient and affordable air travel for tourists, as well as access for companies to conduct business in your local community



Office of Airports



State Buildings and School Site Evaluations

Airport Safety Compatibility Zones

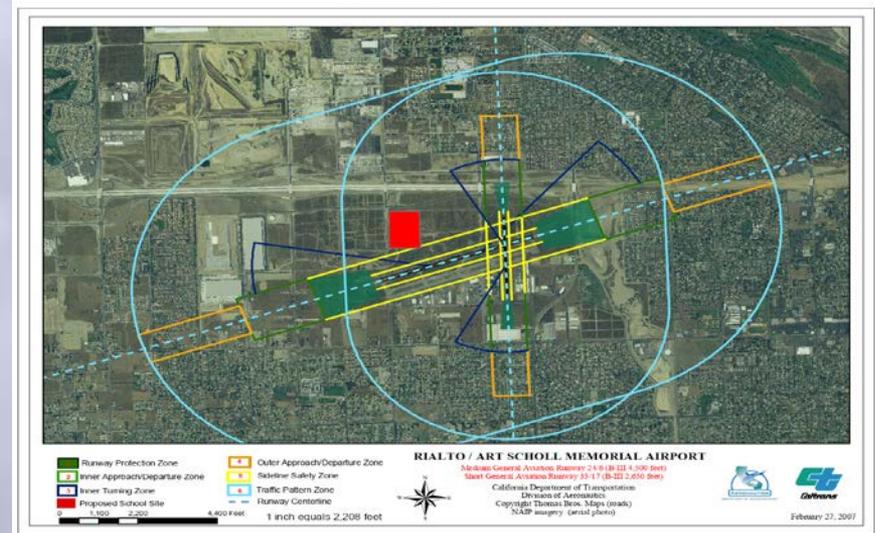
Pursuant to State law, the Division of Aeronautics is required to evaluate proposed K–12 schools (Education Code (EC) 17215), Community Colleges (EC 81033), and State building sites (Public Utilities Code (PUC) 21655) within two nautical miles of an existing runway as well as any new runway that is identified in an adopted airport layout plan.

Planning:

California Airport Land Use Planning Handbook
Consideration and evaluation to overall Community Planning
Consistency with adopted airport land use plans
Communication with the planning commission

Flight Paths:

Minimize disruptive noise and provide for
adequate safety evaluations



Aviation Environmental Review

Review projects submitted from State Clearinghouse (IGR/CEQA)

- Analyze project from an aviation perspective and comment on potential environmental impacts, such as effects relating to aircraft flight, aircraft noise, and public safety

Contact us regarding environmental issues within 2-nautical miles of an airport!

Philip Crimmins, Environmental Review (916) 654-6223



Aircraft Noise

- Legislation passed in 1969 that is part of the PUC, mandates regulation of aircraft noise at airports to resolve existing noise problems and prevent the development of new problems
- County government determines which airports must meet noise standards
 - 10 airports statewide (9 air carrier and 1 general aviation)
 - District 4: In 2001, San Francisco International Airport was the first to achieve a “zero noise impact area” through a 20-year mitigation program with costs exceeding \$168 million. Metropolitan Oakland International Airport and San Jose International Airport are the only other airports in District 4 designated by the respective counties as noise problem airports.
- Department noise activities include:
 - Review and approval of aircraft monitoring plans
 - Assess airports’ progress toward achieving standards
 - Consider applications for a variance from standards



Office of Technical Services



Operational Safety Discrepancy Resolution

Example

Pavement Condition Index: Very Poor (18)



California Pines Airport, Modoc County



Result:

Safer and Smoother landings and take-offs!



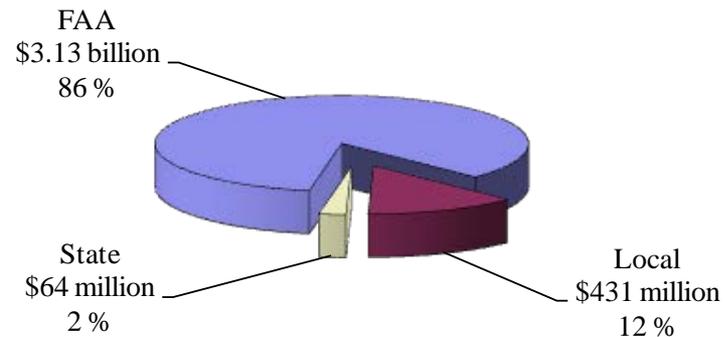
Runway Rehabilitation Project Description:

- Pulverized, reshaped, graded and compacted into sub-base
- Widened 4,250' runway to 60 feet, including a 2.5" hot-mix asphalt overlay and new runway markings

California Aviation System Plan 2012-2021 Capital Improvement Plan



Federal, State, Local Split for Requested Funds Total: \$3.62 billion



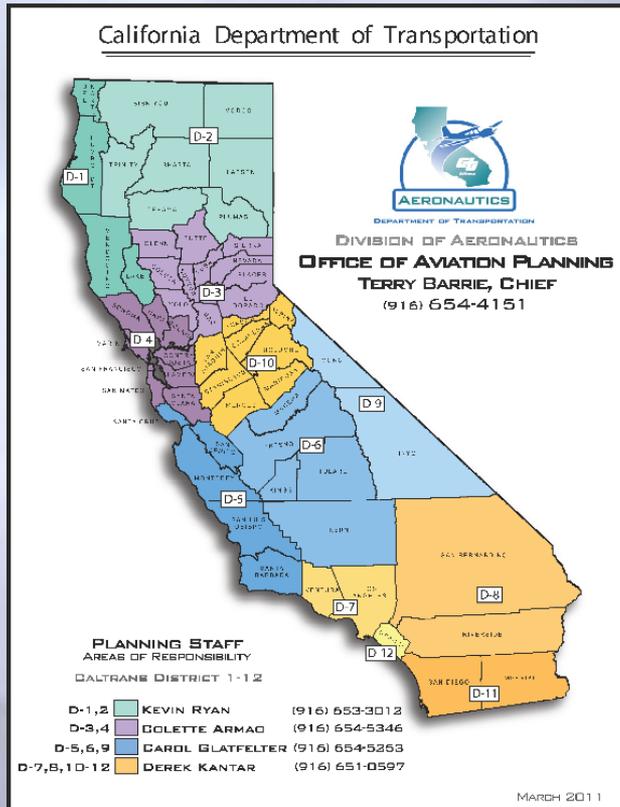
Airport Funding

- State Aeronautics Account
 - Annual revenue approximately \$7 million from aviation fuel excise taxes (Avgas 18¢/gal. and Jet fuel 2¢/gal, excludes commercial jet fuel sales)
- Division Support (\$3 million)
- Annual Credit Grant: \$10,000/year to 149 GA airports (\$1.49 million)
- Airport Improvement Program (AIP) Matching Grants (\$1.65 million)
- Acquisition and Development (A&D) Grants (\$1.00 million)
 - 90 percent State funded Airport Land Use Compatibility Plans (ALUCP), safety, and pavement preservation projects, require a 10 percent local match
- Airport Loan Program (low interest loans, current rate = 4.371 percent)
 - For revenue generating projects (e.g. hangar construction and aviation fuel facilities)
- *State Dollars for Your Airport*
 - Available from the Aeronautics web site:
<http://www.dot.ca.gov/hq/planning/aeronaut/document/StateDollarsForAirport2009.pdf>



Office of Aviation Planning Staff

Systems Planners



Land Use Planners



Compatible Development

San Francisco International Airport (SFO)
San Mateo County



Incompatible Development

**Reid Hillview Airport
(RHV)**

Santa Clara County



**Santa Monica Airport
(SMO)**

Los Angeles County



Aviation Planning Work Products

- CASP General Aviation System Needs Assessment 2010
- CASP Policy Element 2011
- California Airport Land Use Planning Handbook 2011
- California General Aviation Airports: Links to Vitality (video)
- Public Use Airports and Military Airfields Map



Where Aviation should be considered: Advance Planning Programs

- California Transportation Plan
- California Interregional Blueprint
- Climate Action and Adaptation Program
- Smart Mobility Framework
- Complete Streets
- Regional Blueprint Plan / Sustainable Communities Strategies
- Project Initiation Documents (PIDs)



Where Aviation should be considered: Advance Planning Programs (cont'd)

- Highway Planning and Design!
- Regional Transportation Plans and Overall Work Programs
- Transit Connectivity
- Local Development – Intergovernmental review (LD-IGR)
- Public Participation
- Goods Movement
- Public Private Partnerships Program



Role of Transportation Planners

Caltrans has no Aviation Planners in the Districts

- Airport Land Use Commissions serve as the State's primary aviation land use planners, whose actions protect pilots, airports, and the surrounding communities
- You are the “first responders” for protecting and promoting aviation statewide, through Caltrans planning!

Know Your Role as a Caltrans Planner

- Know when a new community development might impact an airport, such as a wind farm or a major transportation project (Reference: Highway Design Manual p. 207)
- If a project lies within 2-nautical miles of an airport, Alert the Division of Aeronautics
- Do not assume the role of an Airport Land Use Commission (ALUC)
- Airport Land Use Compatibility Plans (ALUCP) out rank General Plans or Regional Transportation Plans, and GP and RTP must be consistent with the ALUCP



