DRAFT

Hayward Executive Airport
Airport Land Use Compatibility Plan

Prepared for
Alameda County ALUC

September 2010

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Land Use Compatibility Plan

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CHAPTER 1
Introduction

1.1 Plan Overview

The State Aeronautics Act (Public Utilities Code, Section 21670 et seq.) requires the preparation of an airport land use compatibility plan (ALUCP) for nearly all public-use airports in the state (Section 21675). The intent of the ALUCP is to encourage compatibility between airports and the various land uses that surround them. Alameda County (the County) has established an airport land use commission (ALUC), in accordance with state law, to prepare land use compatibility plans for all public-use airports in the County and to review general plans, proposed changes to zoning codes and ordinances, land use actions and development projects, and airport development plans for consistency with compatibility policies.

1.1.1 Function and Applicability of the Plan

The Hayward Executive Airport Land Use Compatibility Plan is the primary document used by the Alameda County ALUC to help promote compatibility between Hayward Executive Airport (HWD) and its environs. More specifically, this ALUCP should act as a guide for the ALUC and local jurisdictions in safeguarding the general welfare of the public as HWD and the area surrounding the Airport grows. This document shall also serve as a tool for the Alameda County ALUC in fulfilling its duty to review airport and land use development proposals within the airport influence area (AIA) or referral area associated with the airport.

The compatibility criteria set forth in this document shall be used by local agencies to prepare and amend land use plans and ordinances. California State law dictates that the County and affected cities modify their general and specific plans to be consistent with the ALUC’s plan, or to take steps to overrule the ALUC. The AIA for HWD includes portions of both the cities of Hayward and San Leandro, and unincorporated areas of the County; as such, this document is applicable to both cities and Alameda County as they prepare land use plans and review development proposals within the AIA. This document also applies to any future area that may be incorporated within any part of the AIA, as well to school districts, community college districts, and special districts, whenever these entities consider the development of new facilities or expansion of existing ones. Finally, this document should also be considered by land owners when proposing projects within the AIA.
This document replaces the *Alameda County Airport Land Use Policy Plan (ALUPP)*, which the ALUC adopted in 1986. Alameda County includes three public use airports: HWD, Livermore Municipal Airport, and Oakland International Airport. This compatibility plan addresses only the AIA associated with HWD. Separate compatibility plans have been prepared for Oakland International Airport (OAK) and Livermore Municipal Airport (LVK) (see Figure 1-1 for airport locations). This ALUCP is based on a long-range master plan and airport layout plan (ALP) for HWD that reflects the expected growth of the Airport over a 20-year period.

1.1.2 Statutory Requirements

**Powers and Duties**

ALUCs are established pursuant to the State ALUC law\(^1\) to protect the public health, safety, and welfare by promoting the orderly expansion of airports and adoption of land use measures by local public agencies to minimize exposure to excessive noise and safety hazards near airports. In accordance with Section 21674(b) of the California Public Utilities Code, an ALUC has the authority “to coordinate planning at the state, regional and local levels so as to provide for the orderly development of air transportation, while at the same time protecting the public health, safety, and welfare”; to prepare and adopt airport land use plans; and to review and make recommendations concerning specified plans, regulations and other actions of local agencies and airport operators. In addition, ALUCs review plans for proposed new airports or heliports.

**Limitations**

State law does not authorize ALUCs to zone property or apply other land use controls normally exercised by local public agencies. Because the jurisdiction of the ALUC is limited to new land uses, existing land uses that are in conflict with or affected by existing or anticipated airport operations are not subject to the policies established by the ALUC. However, existing incompatible uses are the concern of the airport and of the city or county having jurisdiction over the affected area, and policies should be developed to address this problem. The term “existing land uses” is further defined in Chapter 2.

State law does not provide ALUCs with jurisdiction over airport operations, although the ALUCP must include assumptions about future operations at each airport. Once adopted, the ALUCP serves as a framework for reviewing significant proposals for further airport development.

ALUC jurisdiction and ALUCP scope are confined to land use-related primary impacts on the area surrounding the airport. This excludes the ALUC from considering air quality impacts of the airport, and other “secondary” impacts such as traffic or air quality impacts caused by airport operations.

\(^1\) The State ALUC law is contained in Public Utilities Code Article 3.5, State Aeronautics Act, Section 21661.5, Section 21670 *et seq.*, and Government Code Section 65302.3 *et seq.* (see Appendix B).
Figure 1-1
Alameda County Airports

SOURCE: DeLorme Street Atlas USA, 2000; and ESA, 2007
1.1.3 Alameda County Airport Land Use Commission

The seven-member Alameda County ALUC was created in 1971. After approving interim plans in the early 1970s, the ALUC adopted the ALUPP in 1977. The ALUPP was amended in 1979. The 1979 ALUPP was in use until a new ALUPP was adopted in 1986. This ALUCP replaces the ALUPP adopted by the ALUC in 1986.

Section 21675(a) of the California Public Utilities Code (PUC) states that the ALUC shall review land use compatibility plans as often as necessary in order to accomplish its purposes, but shall not be amend those plans more than once in any calendar year.

The ALUC is appointed as follows:

- Two commissioners representing the County, appointed by board of supervisors.
- Two commissioners representing cities in the County, appointed by a committee of all mayors, except that at least one representative must be appointed from among "any cities contiguous or adjacent to the qualifying airport" (i.e., an airport served by a scheduled airline or one operated for the benefit of the general public).
- Two commissioners with expertise in aviation, appointed by a committee of the managers of all public airports within the County.
- One commissioner representing the general public, appointed by the other six members of the commission.

Each member of the ALUC appoints a proxy to serve as a representative and to vote when the member is absent. Proxies serve at the pleasure of the appointing member of the ALUC. The proxy must be in writing and filed at the ALUC office. The term of office on the ALUC is four years. Any member can be removed at any time and without cause by the appointing body (California PUC Section 21671.5(a)).

In accordance with adopted bylaws, public meetings are held on the third Wednesday of each month.

1.1.4 Relationship of the ALUC to County and City Governments

The relationship between the Alameda County ALUC and County government, the City of Hayward, and any future jurisdiction affected by this document is determined by the State Aeronautics Act. On one level, the ALUC does not need the approval of the County or any affected jurisdiction to adopt this ALUCP or to carry out its project review duties. However, despite its independent nature, the ALUC must still coordinate its activities with local land use jurisdictions on several matters:
1. Introduction

- An ALUC must provide for a coordinated review in regards to the establishment of an airport influence area (AIA) boundary is considered mandatory, as state law requires that a “hearing and consultation with involved agencies” occurs (PUC Section 21675(c)).

- Once local agencies have revised their general or specific plans or overruled the ALUC, the proposed action by the local agency is not subject to further commission review, “unless the commission and the local agency agree that individual projects shall be reviewed by the commission” (Section 21676.5(b)).

- Once an ALUC has adopted a compatibility plan, the authority and responsibility for enforcing its compatibility policies lies fully with the affected jurisdictions.

1.2 Policy Framework

The policies set forth in Chapters 2 and 3 of this document are based upon four primary sources: state laws and guidelines; the Hayward Executive Airport Master Plan; HWD’s airport layout plan (ALP); and the policies of affected local agencies with regard to land use, which can be found in general and specific plans as well as zoning ordinances.

1.2.1 State Laws and Guidelines

Most of the revisions that have been made to the state laws governing ALUCs over the last thirty years involve the procedures by which ALUCs operate. The most significant among the amendments to the state law (adopted in 1982) was the requirement for local general and specific plans to be made consistent with the ALUCP. This amendment also limited the authority of the ALUC to review individual development proposals and reduced the vote requirement for a local jurisdiction to override an ALUC decision from four fifths to two thirds.

While many of the procedures that govern how ALUCs operate are defined by state law, with respect to the creation of airport land use compatibility criteria, very little is written in the statutes. Instead, a portion of the law enacted in 1994 makes reference to another guiding document, the California Airport Land Use Planning Handbook, published by the California Division of Aeronautics. While the Handbook does not constitute official state policy, the statutes say that when preparing compatibility plans for airports, ALUCs shall “be guided by” this resource. The policies and maps in this plan reflect the guidance provided by the current edition of the California Airport Land Use Planning Handbook, dated January 2002.  

1.2.2 Relationship to Airport Master Plan

ALUCPs are distinct from airport master plans in function and content: Airport master plans address on-airport uses and facilities, whereas ALUCPs address the compatibility of off-airport land uses. An airport master plan, which is prepared for and adopted by the entity that owns and operates the airport, assesses the demand for airport facilities and guides the development necessary to meet those demands. An ALUCP, which is prepared and adopted by an ALUC, is intended to ensure that incompatible development does not occur on land surrounding the airport as identified by the AIA.

Section 21675(a) of the California Public Utilities Code requires that an ALUCP be based on the applicable airport master plan(s). The master plan for HWD was adopted by the City of Hayward in 2002.

The ALUCP should be consistent with airport goals, insofar as these goals conform to regional planning policies, and take into account environmental impacts. State law provides that, before modification of an airport master plan, the public agency owning the airport must submit the proposed change to the ALUC for a finding of consistency with the ALUCP. The ALUC will follow the same procedures used for review of city or County actions. The public agency may override the ALUC with a two-thirds vote of its governing body, if it makes specific findings that the proposed action is consistent with the purposes of the state ALUC law.

1.3 Plan Implementation

1.3.1 General Plan Consistency

State law requires local general plans and applicable specific plans to be consistent with the ALUCP. In the event that the ALUCP is amended, the law requires the local public agency to amend its general or specific plan within 180 days to be consistent with the revised ALUCP (Government Code, Section 65302.3). In the event that the local public agency does not concur with a provision of the ALUCP, the public agency may override the ALUC by a two-thirds vote after first holding a public hearing and making findings that the general plan of the local jurisdiction is consistent with the intent of state law.

To be consistent with an ALUCP, a general plan must specifically address compatibility planning issues and must avoid direct conflicts with compatibility planning criteria. Consistency implies that “the concepts, standards, physical characteristics, and resulting consequences of a proposed action must not conflict with the intent of the law of the compatibility plan to which the comparison is being made” (Caltrans, 2002). The Handbook identifies the following methods for compatibility planning issues to be reflected in a general plan:

- **Incorporate Policies into Existing General Plan Elements.** This method requires the incorporation of all airport land use compatibility measures into appropriate general plan elements. For example, noise compatibility measures may be incorporated into the city’s
or county’s general plan noise element. With this approach, direct conflicts between the ALUCP and general plan are eliminated and compliance mechanisms are fully incorporated into the local jurisdiction’s general plan.

- **Adopt a General Plan Airport Element.** This format may be appropriate when a city’s or county’s general plan also needs to address on-airport development or operational issues. Modification of other general plan elements may still be necessary to eliminate conflicts and provide cross-referencing.

- **Adopt the ALUCP as a Stand-Alone Document.** A city or county can adopt the ALUCP, and changes to the city’s or county’s general plan would be minimal. Policy reference to the separate ALUCP would need to be added to the general plan, and any direct land use or other conflicts with compatibility planning criteria would have to be removed. The compatibility policies would substantially appear only in the stand-alone compatibility plan.

- **Implement Compatibility Policies through Zoning.** Adoption of an airport combining district or overlay zoning ordinance by a local government is a way of codifying airport compatibility criteria described only conceptually in the ALUCP. A combining district can supplement local land use designations by adding specific noise and/or safety criteria applicable to future development in the airport influence area. Policy reference to airport compatibility in the general plan could be as simple as stating support of the ALUCP and that policy implementation is by means of the combining zone.

### 1.3.2 Project Referrals

Counties and cities are obligated by state law to submit land use actions and other actions such as zoning ordinances and building regulations for the ALUC’s review. In addition to the types of land use actions for which referral to the ALUC is mandatory in accordance with state law, the ALUCP specifies other land use projects that either must or should be submitted for review. These major land use actions are defined in Section 2.6.3 of this ALUCP.

### 1.4 Plan Contents

The ALUC is concerned with airport activities that may adversely affect nearby land uses within the AIA. The most significant airport-related concerns are:

- Exposure of persons on the ground to accident potential;
- Prevention of obstructions to air navigation (tall objects; objects in safety zones); and
- Prevention of hazards to flight such as wildlife hazards, smoke, flare, lighting, electrical interference and thermal plumes.

For each concern, the ALUC has adopted land use compatibility policies in Chapters 2 and 3 of the ALUCP; these policies address existing and future conditions at HWD and its environs.
This ALUCP is organized as follows:

**Chapter 2**: Chapter 2 of this ALUCP presents the airport compatibility and review policies that are applicable throughout Alameda County.

**Chapter 3**: Chapter 3 of this ALUCP Update presents compatibility and review policies and maps specific to Hayward Executive Airport.

**Chapter 4**: Chapter 4 of this ALUCP Update provides background data for Hayward Executive Airport and its environs.

**Chapter 5**: Chapter 5 provides references for the data presented in this ALUCP.

**Appendix A – J**: present supplemental data and source documents that were used to develop the ALUCP.
CHAPTER 2
County-wide Policies

2.1 Introduction

The policies set forth in Chapters 2 and 3 of the Hayward Executive Airport Land Use Compatibility Plan serve two functions:

1. To articulate the procedures to be used by the Alameda County Airport Land Use Commission (ALUC) and affected local agencies for the purpose of performing airport land use compatibility review as required in the California State Aeronautics Act (Public Utilities Code Section 21670 et seq.).

2. To identify the compatibility criteria that the ALUC shall use in the review of projects involving land use development within the Hayward Executive Airport (HWD) airport influence area (AIA), including Airport master plans and other development plans for HWD. Similarly, local agencies such as Alameda County, the City of Hayward, and any future jurisdictions that may be affected by this document shall use this airport land use compatibility plan (ALUCP) to modify their respective general or specific plans and zoning ordinances for consistency with this ALUCP.

While the policies presented in this chapter specifically address ALUC review procedures and county-wide compatibility considerations, compatibility criteria and other policies specifically designed for HWD are presented in Chapter 3.

2.2 ALUCP Lifecycle

According to State law, the ALUCP should be based on a long-range plan that reflects the anticipated growth of the airport for at least 20 years. This timeframe is a general guideline, as the ALUCP contains various components of differing life spans. Among the components hardest to estimate are future noise levels near an airport because of uncertainties associated with the level of operations and changes in fleet mix, etc. Therefore, periodic adjustment of the ALUCP can be expected in order to reflect changes in anticipated airport impacts, revisions in state and federal law and regulations, and new experience gained concerning the suitability of guidelines set by the ALUC.
2.3 Effective Date

The policies presented in this ALUCP shall become effective for HWD on the date that the Alameda County ALUC adopts the plan. Until that time, the policies set forth in the 1986 Alameda County Airport Land Use Policy Plan (ALUPP) shall remain in effect. Should this ALUCP be invalidated in its entirety by a court action, the 1986 ALUPP shall become effective. Additionally, any action to invalidate the compatibility plan associated with another public-use airport in the County shall not invalidate this ALUCP.

2.4 Definitions

Definitions of terms for the purposes of the policies set forth in this document are as follows (Caltrans, 2002). Additional definitions are found in the Glossary.

**Aeronautics Act**: Sections 21670 et seq. of the California Public Utilities Code.

**Airport**: An area of land or water that is used or intended to be used for the landing and taking off of aircraft, including its buildings and facilities.

**Airport Influence Area (AIA)**: The area in which current or future airport-related noise, overflight, safety, and/or airspace protection factors may significantly affect land uses or necessitate restrictions on those uses. In most circumstances, the airport influence area is designated by the ALUC as its planning area boundary for the airport and the two terms can be considered synonymous.

**Airport Land Use Commission (ALUC)**: A commission authorized under the provisions of the California Public Utilities Code, Sections 21670 et seq. and established (in any county within which a public-use airport is located) for the purpose of promoting compatibility between airports and the land uses surrounding them.

**Airport Land Use Compatibility Plan (ALUCP)**: As used herein, a plan, usually adopted by an ALUC, which sets forth policies for promoting compatibility between airports and the land uses which surround them. This document is sometimes referred to as an Airport Land Use Policy Plan (ALUPP).

**Avigation Easement**: A type of easement that typically conveys the following rights:
a) A right-of-way for free and unobstructed passage of aircraft through the airspace over the property at any altitude above a surface specified in the easement (usually set in accordance with the FAR Part 77 criteria).

b) A right to subject the property to noise, vibrations, fumes, dust, and fuel particle emissions associated with normal airport activity.

c) A right to prohibit the erection or growth of any structure, tree, or other object that would enter the acquired airspace.

d) A right-of-entry onto the property, with proper advance notice, for the purpose of removing, marking, or lighting any structure or other object that enters the acquired airspace.

e) A right to prohibit electrical interference, glare, misleading lights, visual impairments, wildlife hazards, or other hazards to aircraft flight from being created on the property.

**Community Noise Equivalent Level (CNEL):** The noise metric adopted by the State of California for evaluating airport noise. It represents the average noise level during a 24-hour day, adjusted to an equivalent level to account for the lower tolerance of people to noise during evening and nighttime periods relative to the daytime period.

**Compatibility Zone:** Any of the airport influence area zones set forth in this ALUCP for the purposes of determining land use compatibility.

**Existing Land Use:** A land use that either physically exists or else for which government approvals have been obtained through one or more of the following:

a) A valid building permit has been issued;

b) A development agreement has been approved and remains in effect;

c) A tentative parcel or subdivision map has been approved and the original period, excluding extensions, within which the approval is valid and has not expired;

d) A vesting tentative parcel or subdivision map has been approved;

e) A final subdivision map has been recorded; or

f) A use permit or other discretionary entitlement has been approved and not yet expired.

**Federal Aviation Regulations (FAR) Part 77:** The part of the Federal Aviation Regulations that addresses objects affecting navigable airspace.

**Height Review Overlay Zone:** The area around an airport where the ground lies above a FAR Part 77 plane or less than 35 feet beneath a FAR Part 77 plane.

**Helipad:** A small, designated area, usually with a prepared surface, on a heliport, airport, landing / takeoff area, apron / ramp, or movement area used for takeoff, landing, or parking of helicopters.
Heliport: A facility used for operating, basing, housing, and maintaining helicopters.

Infill: Development that takes place on vacant property largely surrounded by existing development, especially development that is similar in character.

Local Jurisdiction: Alameda County or any city or other government agency (excluding state and federal agencies) having jurisdiction over land uses within its boundaries.

Nonconforming Use: An existing land use that does not conform to subsequently adopted or amended zoning or other land use development standards.

Project (Land Use Action, Development Proposal): Any proposed action under consideration by a local public agency or airport operator that is subject to ALUC review. Under State Law, such actions include amendment of a general or specific plan or adoption of a zoning ordinance or building regulation by a local public agency that affects land use within an AIA. It includes plans for proposed new airports or heliports and modification of an airport master plan by the airport owner. As specified by State Law, under certain circumstances a project may include other proposed local agency actions, regulations, or permits.

2.5 Geographic Scope

2.5.1 Airport Influence Area

The airport influence area (AIA), also known as the airport referral area, is the area in which current or future airport-related noise, overflight, safety, and/or airspace protection factors may significantly affect land uses or necessitate restrictions on those uses, as well as lands on which the uses could negatively affect the airport(s) in question.

The specific limits of the AIA of Hayward Executive Airport are presented in Chapter 3. For a discussion of noise, height, and safety impacts and how those issues affect the areas in which this ALUCP applies, see Appendix B, “Airport Land Use Compatibility Concepts”.

2.5.2 County-wide Impacts on Flight Safety

Other lands, regardless of their location in the County, on which certain land use characteristics could adversely affect the safety of flight in the County, are included in this ALUCP. Specifically, any proposal for construction of any structure (including antennas) in the County that rises 200 feet above the ground level at the site is included in this ALUCP.

2.5.3 New Airports

The site and environs of any new airport that may be proposed anywhere in the County, including incorporated cities, and which requires an Airport Permit from the California Department of Transportation (Caltrans) Aeronautics Division are included in this ALUCP.
2.5.4 Heliports and Helipads

This ALUCP applies to any site and environs of any existing or proposed public-use, private-use, or special-use heliport or helipad (as defined by Caltrans) in the County, including incorporated cities that are included in this ALUCP (see Table 2-1 for list of existing heliports).

<table>
<thead>
<tr>
<th>Heliport Name</th>
<th>Location</th>
<th>Public/Private</th>
<th>Number of daily operations</th>
<th>Number of Night Operations (10:00PM to 7:00 AM)</th>
<th>Years of Operation</th>
<th>Miscellaneous</th>
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<td>Alameda County, Alico Park</td>
<td>1221 Oak St. Oakland, CA 94607</td>
<td>Private</td>
<td>N/A</td>
<td>N/A</td>
<td>42</td>
<td>Last Inspected July 5, 1990</td>
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<tr>
<td>ACFD, Station 14</td>
<td>11345 Sunol Blvd. Sunol, CA 94586</td>
<td>Public</td>
<td>N/A</td>
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<td>N/A</td>
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<tr>
<td>Camp Park Military Reservation</td>
<td>Dublin, CA</td>
<td>Public</td>
<td>N/A</td>
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<td>Children’s Hospital, Oakland</td>
<td>747 52nd St. Oakland, CA 94509</td>
<td>Private</td>
<td>Variable*</td>
<td>Variable*</td>
<td>8</td>
<td>Last Inspected December 17, 2003</td>
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<td>Eden Medical Center</td>
<td>20103 Lake Chabot Rd. Castro Valley, CA 94546</td>
<td>Private</td>
<td>Variable*</td>
<td>Variable*</td>
<td>11</td>
<td>Last Inspected September 9, 2004</td>
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<td>Fairview Site</td>
<td>27218 Fairview Ave., Fairview, CA 94542</td>
<td>Private</td>
<td>N/A</td>
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<td>First Interstate Bank OPS</td>
<td>3440 Walnut Ave. Fremont, CA 94538</td>
<td>Private</td>
<td>N/A</td>
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<td>Hacienda Business Park</td>
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<td>Ruby Hills Site</td>
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<td>Private</td>
<td>N/A</td>
<td>N/A</td>
<td>No longer in use</td>
<td></td>
</tr>
<tr>
<td>Saint Rose Hospital</td>
<td>27200 Calaroga Ave. Hayward, CA 94545</td>
<td>Private</td>
<td>Variable*</td>
<td>Variable*</td>
<td>38</td>
<td>Last Inspected May 9, 2001</td>
</tr>
<tr>
<td>Valleycare Medical Center</td>
<td>5555 W. Las Positas Blvd. Pleasanton, CA 94588</td>
<td>Private</td>
<td>Variable*</td>
<td>Variable*</td>
<td>18</td>
<td>Last Inspected June 6, 2003</td>
</tr>
<tr>
<td>Washington Hospital</td>
<td>Corner of Bart Way and Civic Center Dr.</td>
<td>Private</td>
<td>Variable*</td>
<td>Variable*</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

* Variable - Heliport use at hospital locations based upon need.
N/A = Not available
Source: Alameda County, 2007.

FAA Advisory Circular (AC) 150/5390-2B, “Heliport Design,” provides recommendations for heliport design and describes the federal requirements associated with heliport development. Alameda County encourages those with heliport proposals to implement the guidance set forth in...
the AC to the greatest extent practicable. The complete AC is available online in several files that
can be downloaded upon request from the FAA website at: www.faa.gov. For more information
pertaining to this FAA guidance, please refer to Appendix G, “Heliport Design.” For heliport
permitting requirements, contact Caltrans’ Division of Aviation. Also see Section 2.7.4 for ALUC
review criteria for new heliports, or heliport master/development plans.

2.6 Scope of ALUC Review

As specified by the State Aeronautics Act and described in the Handbook, review of local actions
pertaining to airport land use compatibility is one of the fundamental reasons for the formation of
ALUCs. Plans that undergo mandatory review by ALUCs prior to their adoption include general
and specific plans and ordinances prepared by local jurisdictions (see Sections 2.6.1 and 2.6.2), as
well as airport and heliport plans, including master plans, expansion plans, and plans for the
construction of new facilities. Other types of actions proposed within the AIA that have the
potential to affect land use or airport operations should also be reviewed by the ALUC for a
determination of consistency with this ALUCP (see Section 2.6.2.).

2.6.1 Actions Requiring ALUC Review

2.6.1.1 Land Use Plans and Zoning Ordinances

As noted in the Handbook, The following plans or ordinances shall be reviewed by the ALUC for
determination of consistency with the ALUCP prior to their approval by the local jurisdiction:

a) The adoption or approval of any amendment to a general or specific plan affecting
property within an AIA (California Public Utilities Code Section 21676(b)).

1) Until such time as the ALUC finds that a local jurisdiction’s general plan or
specific plan is consistent with the ALUCP, or the local jurisdiction has
overruled the ALUC’s determination of inconsistency by a two-thirds vote of its
governing body, the local jurisdiction shall refer all actions, regulations, and
permits involving land within an AIA to the ALUC for review (California Public
Utilities Code 21676.5(a)). Only those actions that the ALUC elects not to review
are exempt from this requirement.

2) After a local jurisdiction has revised its general plan or specific plan for
consistency with the ALUCP or has overruled the ALUC by a two-thirds vote of
its governing body, the ALUC no longer has authority under state law to require
that all actions, regulations, and permits be referred for review. However, the
ALUC and the local agency can agree that the ALUC should continue to review
individual projects in an advisory capacity.

   i. The ALUC requests local jurisdictions to continue to submit major land
      use actions as listed in Section 2.6.2.
ii. Review of these actions is requested only if a review has not previously been conducted as part of a general plan, specific plan, or zoning ordinance action or if sufficient project-level detail to enable a full assessment of compatibility was not available at the time of a previous review.

iii. Because the ALUC is acting in an advisory capacity when reviewing projects under these circumstances, local jurisdictions are not required to adhere to the override process if they elect to approve a project without incorporating design changes or conditions suggested by the ALUC.

b) The adoption or approval of a zoning ordinance or building regulation which (1) affects property within an AIA, and (2) involves any of the airport-related concerns listed in Section 1.4 of this ALUCP (California Public Utilities Code Section 21676(b)). Any proposed change or variance to any such ordinance or regulation also must be submitted for ALUC review if issues of noise, safety, airspace protection, and overflight are involved.

c) Proposed redevelopment of a property within an AIA for which the existing use is consistent with the local general plan and/or specific plan, but does not conform to the compatibility criteria set forth in this ALUCP.

d) Proposed land use actions covered by Sections 2.6.1(a), 2.6.1(b), and 2.6.1(c) shall initially be reviewed by the ALUC Administrative Officer or her or his designee. If the ALUC Administrative Officer determines that significant compatibility issues are evident, the proposal shall be forwarded to the ALUC for review and decision. The ALUC authorizes the ALUC Administrative Officer to approve proposed actions having no apparent compatibility issues.

2.6.1.2 Airport and Heliport Plans

The following types of actions shall be referred to the ALUC for determination of consistency with the ALUCP prior to their approval by the local jurisdiction:

a) The adoption or modification of the master plan for an existing public-use airport (California Public Utilities Code Section 21676(c)).

b) Any proposal for expansion of an existing airport or heliport not included in that airport or heliports approved master plan if such expansion will require an amended airport permit from the state of California (California Public Utilities Code 21664.5).

c) Any proposal for a new airport, heliport, or helipad whether, for public use or private use (California Public Utilities Code Section 21661.5), if the facility requires a State Airport Permit.
2.6.2 Land Use Actions Recommended for ALUC Review

Although the ALUC does not have the authority under state law to require that all actions, regulations, and permits be referred for review, the ALUC requests that certain types of actions be referred to the ALUC for determination of consistency with the ALUCP prior to their approval by the local jurisdiction.

For example, the scope or character of certain proposed major land use actions, as listed below, is such that their compatibility with airport activity may be cause for concern. Even though these actions may be generally consistent with the local general plan or specific plan, sufficient detail may not be known to enable a full airport compatibility evaluation at the time that the general plan or specific plan is reviewed. To enable better assessment of compliance with the compatibility criteria set forth herein, ALUC review of these actions may be warranted.

a) Any proposed expansion of the sphere of influence of a city or special district within the AIA.

b) Proposed pre-zoning of property within the AIA associated with future annexation of land to a city.

c) Proposed residential development within the AIA, including land divisions, consisting of five or more dwelling units or parcels.

d) Any discretionary development proposal within the AIA for projects having a building floor area of 20,000 square feet or greater.

e) Proposed land acquisition within the AIA by a government or private entity for any facility that would act as an indoor or outdoor assembly area for a large number of people (i.e., meeting halls, parks, correctional institutions, sport facilities, etc.).

f) Any obstruction reviewed by the FAA in accordance with FAR Part 77 that receives a finding other than “not a hazard to air navigation.”

g) Any industrial use within the AIA having the potential to interfere with, or create hazards to aircraft in flight including, but not limited to:
   1) Electrical or other interference with radio communications or navigational signals;
   2) Lighting which could be mistaken for airport lighting;
   3) Thermal plumes;
   4) Glare in the eyes of pilots or aircraft using the airport; or
   5) Impaired visibility near the airport from smoke or steam.

h) Other nonresidential development including, but not limited to:
   1) Institutional uses (schools, prisons);
2. County-wide Policies

2.6.2 Proposed actions listed in Section 2.6.2 should be referred to the ALUC as early as possible so that the ALUC’s review can be duly considered by the local jurisdiction prior to formalizing its actions. Though the timing may vary, all projects must be submitted to the ALUC for review prior to final approval by the local jurisdiction.

2.7 Review Process

2.7.1 General

Proposed actions listed in Section 2.6.2 should be referred to the ALUC as early as possible so that the ALUC’s review can be duly considered by the local jurisdiction prior to formalizing its actions. Though the timing may vary, all projects must be submitted to the ALUC for review prior to final approval by the local jurisdiction.

2.7.2 Public Noticing

Where applicable, the ALUC shall provide public notice and obtain public input in accordance with the California Public Utilities Code (PUC Section 21675.2(d)) and general plan law (Government Code, Section 65090) before action on any plan, regulation, or other land use proposal under consideration.
2.7.3 Review Process for Land Use Plans and Zoning Ordinances

2.7.3.1 Initial Review of General Plan Consistency

In conjunction with adoption of this ALUCP, the ALUC shall review the general plans, specific plans, and zoning ordinances of affected local jurisdictions to determine their consistency with the ALUCP.

a) Within 180 days of the ALUC’s adoption or amendment of the ALUCP, each local jurisdiction must amend its general plan and any applicable specific plan to be consistent with the ALUCP or, alternatively, adopt findings and override the ALUC in accordance with Section 21676(b) of the Public Utilities Code (Government Code Section 65302.2).

b) Prior to taking action on a proposed amendment to a general plan or specific plan, the local jurisdiction must submit a draft of the proposal to the ALUC for review and approval in accordance with Section 21676(b) of the Public Utilities Code.

c) In conjunction with its submittal of a general plan or specific plan amendment to the ALUC, a local jurisdiction may request that the ALUC modify the areas defined as “infill” in accordance with Section 2.7.6.7 (a). The ALUC will include a determination on the infill as part of its action on the consistency of the general plan and specific plans.

d) After a local jurisdiction has revised its general plan or specific plan for consistency with the ALUCP, subsequent land use proposals within the AIA (which are consistent with the applicable general plan, specific plans, and zoning ordinances) are subject to ALUC review only under the conditions indicated in Sections 2.6.1 and 2.6.2.

2.7.3.2 ALUC Action Alternatives

When reviewing a general plan, specific plan, zoning ordinance, or building regulation for consistency with the ALUCP, the ALUC has three choices of action:

a) Find the plan, ordinance, or regulation consistent with the ALUCP. To make such a finding with regard to a general plan, the conditions identified in Section 2.7.5.2 must be met.

b) Find the plan, ordinance, or regulation consistent with the ALUCP, subject to conditions and/or modifications that the ALUC may require.

c) Find the plan, ordinance, or regulation inconsistent with the ALUCP. In making a finding of inconsistency, the ALUC shall note the specific conflicts upon which its determination is based.
2.7.3.3 Response Time

The ALUC must respond to a local jurisdiction’s request for a consistency determination on a general plan, specific plan, zoning ordinance, or building regulation within 60 days from the date of referral (California Public Utilities Code Section 21676(d)).

a) If the ALUC fails to make a determination within that period within that period, the proposed action shall be deemed consistent with the ALUCP.

b) Regardless of ALUC action or failure to act, the proposed action must comply with other applicable local, state, and federal regulations and laws.

c) The referring agency shall be notified of the ALUC’s action in writing.

2.7.3.4 Review Criteria

In order for a general or specific plan, or a zoning ordinance to be considered consistent with the ALUCP, both of the following must be accomplished:

a) No direct conflicts can exist between the two plans. Direct conflicts primarily involve general plan land use designations which do not meet the density or intensity criteria specified in the ALUCP although conflicts with regard to other policies also may exist. Note, however, that a general plan cannot be found inconsistent with the ALUCP because of land use designations that reflect existing land uses even if those designations conflict with the ALUC’s compatibility criteria. Because ALUCs have no authority over existing land uses, general plan land use designations that merely reflect the existing uses for such parcels are, in effect, excluded from requirements for general plan consistency with the ALUC plan. This exception is applicable only if the general plan includes policies setting limitations on expansion and reconstruction of nonconforming uses consistent with Section 2.7.5.7.

b) Provisions must be made for evaluation of proposed land use development situated within an AIA relative to the compatibility criteria set forth in the ALUCP.

1) Even if the land use designations in a general plan have been deemed consistent with the ALUCP, evaluation of the proposed development relative to the land use designations alone is usually insufficient. General plans typically do not contain the detailed airport land use compatibility criteria necessary for a complete compatibility evaluation of proposed development.

2) Local jurisdictions have the following choices, or a combination thereof, for satisfying this evaluation requirement:

   i. The general plan and/or referenced implementing ordinances and regulations must contain sufficient detail to enable the local jurisdiction to assess whether a proposed development fully meets the compatibility criteria specified in the ALUCP (this requires both that the compatibility criteria be identified and that project review procedures be described);
ii. The ALUCP must be adopted by reference (additionaly, the project review procedure must be described in a separate instrument presented to and approved by the ALUC); and/or

iii. The general plan must indicate that all major land use actions, as listed in Section 2.6.2 or otherwise agreed to by the ALUC, shall be referred to the ALUC for review in accordance with the policies of Section 2.7.5.

3) The status of ALUC review of major land use actions depends upon which of the preceding options the local jurisdiction selects for making its general plan consistent with the ALUCP. This status, in turn, affects whether a local jurisdiction would be required to use the override process in the event of a disagreement with the ALUC’s action.

If either of the first two options listed in Section 2.7.3.4(b)(2) is selected, then referral of major land use actions to the ALUC is voluntary. In this case, the ALUC’s review is advisory and the local jurisdiction would not need to use the override process if it elects to approve a project without incorporating the ALUC’s comments.

If the third option listed in Section 2.7.3.4(b)(2) is selected, submittal of major land use actions for ALUC review is mandatory and override procedures would apply.

2.7.4 Review Process for Airport and Heliport Actions

2.7.4.1 Project Submittal Information

Any proposal for a new airport or heliport, helipad, or an airport or heliport master or development plan, submitted to the ALUC for review shall contain sufficient information to enable the ALUC to adequately assess the noise, overflight, safety, and airspace protection impacts of airport activity upon surrounding land uses.

a) At a minimum, information to be submitted shall include:

1) A layout plan drawing of the facility showing the location of:
   i. Property boundaries;
   ii. Runways or helicopter takeoff and landing areas;
   iii. Runway or helipad protection zones; and
   iv. Aircraft or helicopter approach/Departure flight routes.

2) Airspace surfaces in accordance with FAR, Part 77.

3) Activity forecasts, including the number of operations by each type of aircraft proposed to use the airport, the percentage of day, evening, and night operations, and the distribution of takeoffs and landings for each runway direction.
4) Proposed flight track locations and projected noise contours or other relevant noise impact data.

5) A map showing existing and planned land uses in the areas affected by aircraft or helicopter activity associated with implementation of the proposed master plan or development plan.

6) Any environmental document (initial study, draft environmental impact report, etc.) that has been prepared for the project.

7) Identification and proposed mitigation of impacts on surrounding land uses.

b) Any applicable review fees as established by the ALUC shall accompany the application.

2.7.4.2 ALUC Action Alternatives for Reviews of New Airports and Heliports

When reviewing proposals for new airports or heliports, the ALUC’s choices of action are:

a) Approve the proposal as being consistent with the specific review policies listed in Section 2.7.5.4.

b) Approve the proposal and adopt an ALUCP for that facility. State law requires adoption of such a plan if the airport or heliport will be a public-use facility (California Public Utilities Code Section 21675(a)).

c) Disapprove the proposal on the basis that the noise, safety, airspace protection, and overflight impacts it would have on surrounding land uses are not adequately mitigated.

2.7.4.3 ALUC Action Choices for Plans of Existing Airports or Heliports

When reviewing airport master plans or expansion plans for existing airports, the ALUC has three action choices:

a) Find the airport or heliport plan consistent with the ALUCP.

b) Find the airport or heliport plan inconsistent with the ALUCP.

c) Modify the ALUCP (after duly noticed public hearing) to reflect the assumptions and proposals in the airport or heliport plan.

2.7.4.4 Response Time

The ALUC must respond to a local jurisdiction’s submittal of plans for a new airport or heliport, or an airport/heliport master or development plan, within 60 days from the date of referral (California Public Utilities Code Section 21676(d)).
a) If the ALUC fails to make a determination within that period, the proposed action shall be deemed consistent with the ALUCP.

b) Regardless of ALUC action or failure to act, the proposed action must comply with other applicable local, state, and federal regulations and laws.

c) The referring agency shall be notified of the ALUC’s action in writing.

2.7.4.5 Review Criteria for New Airports or Heliports

In reviewing proposals for new airports and heliports, the ALUC shall focus on the potential noise, overflight, safety, and airspace protection impacts upon surrounding land uses. The review should examine the kinds of impacts that these factors would have upon both existing and planned land uses. Items to be considered should include:

a) Whether the existing or planned land uses would be considered incompatible with the airport or heliport if the latter were already in existence.

b) The measures provided in the development plan to mitigate the effects of noise, safety, height restriction, and overflight impacts on surrounding land uses, such as:
   1) Locating flight tracks so as to minimize the impacts;
   2) Other operational procedures to minimize impacts; and
   3) Acquisition or property interests (fee title or easements) on the impacted land.

c) The ALUC shall evaluate the adequacy of the proposed facility design (in terms of federal and state standards) only to the extent that the design affects surrounding land use. The ALUC does not have the authority to make a determination of conformance with federal and state standards.

d) The ALUC must base its review on the proposed airfield or heliport design. The ALUC does not have the authority to require alterations to the airfield or heliport design.

e) The review shall examine the relationships between existing and planned land uses in the vicinity of the proposed airport or heliport and the impacts that the proposed facility would have upon these land uses.

f) Other types of environmental impacts (e.g., air quality, water quality, natural habitats, vehicle traffic, etc.) are not within the scope of ALUC review.

2.7.4.6 Review Criteria for Airport Master, Layout, and Development Plans

When reviewing new or modified airport master or development plans for existing airports, the ALUC shall determine whether activity forecasts or proposed facility development identified in
the plan differ from the forecasts and development assumed for that airport in this ALUCP. Attention should specifically focus on:

a) Activity forecasts that:
   1) Are significantly higher than those in the ALUCP; or
   2) Include a higher proportion of larger or noisier aircraft.

b) Proposals to:
   1) Construct a new runway or helicopter takeoff and landing area;
   2) Permanently change the length, width, or landing threshold location of an existing runway; or
   3) Establish an instrument approach procedure.

2.7.4.7 Consistency Determination Criteria For Master or Development Plans

The ALUC shall determine whether the proposed master plan or development plan is consistent with the ALUCP. The ALUC shall base its determination of consistency on:

a) Findings that the forecasts and aviation-related development identified in the master or development plan would not result in greater noise, overflight, or safety impacts or height restrictions on surrounding land uses than are assumed in the ALUCP.

b) A determination that any non-aviation development proposed within the airport or heliport boundary will be consistent with the basic compatibility criteria set forth in Table 2-3.

2.7.5 Review Process for Proposed Land Use Actions

2.7.5.1 Information Required for Review of a Proposed Individual Project

Project sponsors must provide information for ALUC review. Items (a) through (f) below are summarized in Table 2-2.

a) Indication, in writing, that the proposed local action is referred to the ALUC for mandatory review and comment.

b) Site maps to indicate the location of the proposed local action.

c) The identities of all property owners within the land area encompassed by the proposed local action, and, if any development or development application has been proposed to the referring jurisdiction or is known by the referring jurisdiction to be in preparation in conjunction with the local action, the identities of the applicant or applicants and of the representative(s) thereof.
d) A full description and map of the geographic area. The map and description must indicate:

1) The geographic area encompassed by the proposed local action;
2) The assessor’s parcel number of all properties involved by the proposed local action;
3) The relationship of the proposed local action to the Airport;
4) The relationship of the proposed local action to the airport land use zones as defined by the ALUCP in force; and
5) The relationship of the proposed local action to airport noise contours, as defined by the ALUCP.

### TABLE 2-2

<table>
<thead>
<tr>
<th>Information Required</th>
<th>General Plan</th>
<th>Specific Plan</th>
<th>Zoning Ordinance</th>
<th>Building Regulation</th>
<th>Individual Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indication (in writing) that the proposed local action is referred to the ALUC for mandatory review under the provisions of the State of California Public Utilities Code</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Indication (in writing) that the proposed local action is referred to the ALUC for optional review and comment</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>Full text of the proposed referring agency action</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
</tr>
<tr>
<td>Site map of the proposed local action</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Y</td>
</tr>
<tr>
<td>Map and written description including:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>- Geographic Area</td>
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<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
</tr>
<tr>
<td>- All parcel nos. associated with the proposed project</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
</tr>
<tr>
<td>- Relationship of proposed action to the airport, safety zones, and noise contours</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
</tr>
<tr>
<td>- Elevation of the proposed project action</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
</tr>
<tr>
<td>A description of land uses, densities, and open space conservation for the proposed action</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>A copy of any CEQA or NEPA document, noise study, or other environmental evaluation prepared in conjunction with the proposed action</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
</tr>
<tr>
<td>A written assurance that a real estate disclosure document will be provided for property offered for sale or lease within the AIA.</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Abbreviations:**

- Y - Yes, information is required;
- N - No, information is not required;
- N/A - Not applicable

* This also includes amendments to general and specific plans.
2. County-wide Policies

[439x756]2. County-wide Policies

[90x49]Hayward Executive Airport

[298x49]2-17

[443x49]ESA Airports / 202229

[90x308]Failure to provide the ALUC with required information for any proposed local action shall constitute sufficient grounds for a determination of inconsistency.

2.7.5.2 ALUC Administrative Officer’s Alternatives

The ALUC Administrative Officer, when reviewing major land use actions, has two choices of action:

a) Find that the proposed project does not contain characteristics likely to result in inconsistencies with the compatibility criteria set forth in this ALUCP. The ALUC Administrative Officer is authorized to approve such projects on behalf of the ALUC.

b) Find that the proposed project may be inconsistent with the ALUCP. The ALUC Administrative Officer shall forward any such project to the ALUC for a consistency determination.

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1 The U.S. Standards for Terminal Instrument Procedures (TERPS) are contained in FAA Order 8260.3B CHG 19 (5/12/02).
2.7.5.3 ALUC Action Alternatives

The ALUC has three choices of action when reviewing a major land use project proposal:

a) Find the project consistent with the ALUCP.

b) Find the project consistent with the ALUCP, subject to compliance with such conditions as the ALUC may require. Any such conditions should be limited in scope and be described in a manner which allows compliance to be clearly assessed (e.g., the height of a structure).

c) Find the project inconsistent with the ALUCP. In making a finding of inconsistency, the ALUC shall note the specific conflicts upon which its determination is based.

2.7.5.4 Response Time

State law does not specify a timeframe for ALUCs to review land use actions other than amendment of a general plan or specific plan or the addition or approval of a zoning ordinance or building regulation. Nevertheless, the policy of the Alameda County ALUC is that:

a) Reviews of projects forwarded to the ALUC Administrative Officer for a consistency determination shall be completed within 21 days following the submittal of a complete application. Should the project require further review, the Administrative Officer will forward the project to the ALUC, and will schedule a hearing within 60 days of project referral.

b) The date of referral is deemed to be the date on which all applicable project submittal information as listed in Section 2.7.5.1 is received by the ALUC Administrative Officer.

c) If the ALUC Administrative Officer or the ALUC fails to make a determination within the above time periods, the proposed action shall be deemed consistent with the ALUCP.

d) Regardless of action or failure to act on the part of the ALUC Administrative Officer or the ALUC, the proposed action still must comply with other applicable local, state, and federal regulations and laws.

e) The referring agency shall be notified of the ALUC Administrative Officer’s and/or the ALUC’s action in writing.

2.7.5.5 Subsequent Review

Once a project has been found consistent with the ALUCP, it need not be referred for review at subsequent stages of the planning process (e.g., for a use permit after a zoning change has been reviewed) unless:

a) Insufficient information was available at the time of the ALUC’s original review of the project to assess whether the proposal would be fully in compliance with compatibility criteria (e.g., the site layout and structure height might not be known at the time a general plan change or zoning amendment is requested).
b) The design of the project subsequently changes in a manner that could raise questions as to the validity of a previous finding of compatibility. Changes warranting review include, but are not limited to, the following:

1) An increase in the number of dwelling units proposed for the site;
2) A proposed increase in intensity of use (more people on the site);
3) Incorporation of clustering or modifications to the configuration of open land areas proposed for the site; and/or
4) A proposed increase in the height of structures or other design features.

c) The local jurisdiction concludes that further review is warranted.

d) The ALUC requests further review at a date later in the approval process.

2.7.5.6 Basic Land Use Compatibility Criteria

The basic compatibility criteria table (see Table 2-3) represents a compilation of compatibility criteria associated with noise, overflight, safety, and airspace protection impacts. The basic criteria for assessing whether a land use plan, ordinance, or development proposal is to be judged compatible with a nearby airport are set forth in this table. Additional factors pertaining to the review of general plans shall also be taken into account.

For the purposes of reviewing proposed amendments to county or city land use plans and zoning ordinances, as well as in the review of most individual development proposals, the criteria in the summary table are anticipated to suffice. However, certain complex land use actions may require more intensive review. The ALUC may refer to the supporting criteria, as listed in Chapter 3, to clarify or supplement its review of such actions.

2.7.5.7 Special Conditions

a) Infill. Where development not in conformance with this ALUCP already exists, additional infill development of similar land uses may be allowed to occur even if such land uses are to be prohibited elsewhere in the AIA.

1) A parcel can be considered for infill development if it meets all of the following criteria plus the applicable provisions of either Sections 2.7.5.7(a)(2) or 2.7.5.7(a)(3) below:
   i. The parcel size is 20 acres or less.
   ii. The site is at least 65% bound (disregarding roads) by existing uses that are similar to, or more intensive than, those proposed.
   iii. The proposed project would not extend the perimeter of the area defined by the surrounding, already developed, incompatible uses.
iv. Further increases in the density, intensity, and/or other incompatible
design or usage characteristics (e.g., through use permits, density
transfers, addition of second units on the same parcel, height variances,
or other strategy) are not included.

v. The area to be developed cannot previously have been set aside as open
land in accordance with open land policies presented in Chapter 3 of this
ALUCP unless replacement open land is provided within the same
compatibility zone.
<table>
<thead>
<tr>
<th>Zone</th>
<th>Location</th>
<th>Compatibility Qualities</th>
<th>Risk Factors / Runway Proximity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Runway Protection Zone</td>
<td>Prohibit all structures except those with aeronautical functions</td>
<td>Very high risk</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit residential land uses</td>
<td>Runway Protection Zone is defined by FAA criteria</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit objects exceeding Part 77 height limits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit storage of hazardous materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Avigation easement dedication</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Inner Approach/Departure Zones</td>
<td>Prohibit schools, day care centers, libraries, hospitals, nursing homes, and places of worship</td>
<td>Substantial Risk</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit highly noise-sensitive outdoor nonresidential uses</td>
<td>RPZs together with inner safety zones encompass 30% - 50% of near-airport aircraft accident sites (air carrier and general aviation)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit above ground storage or hazardous materials</td>
<td>Encompasses areas flown at low altitudes (typically 200-400 feet above runway elevation)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit other hazards to flight</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Inner Turning Zones</td>
<td>Prohibit critical infrastructure facilities</td>
<td>Zone primarily applicable to general aviation airports</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limit residential uses to very low densities (if not deemed unacceptable because of noise)</td>
<td>Covers locations where aircraft are typically turning from the base to final approach legs of the standard traffic pattern and are descending from traffic pattern altitude</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Avoid non-residential uses having moderate or higher usage intensities (e.g., major shopping centers, fast food restaurants, theaters, meeting halls, buildings with more than three above ground floor are generally unacceptable.)</td>
<td>Zone also includes the area where departing aircraft normally complete the transition from takeoff power and flap settings to a climb mode and have begun to turn their en route heading</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit children’s schools, day care centers, hospitals, nursing homes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Avoid hazardous uses (e.g., aboveground bulk fuel storage)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Outer Approach/Departure Zones</td>
<td>In undeveloped areas, limit residential uses to very low densities (if not deemed unacceptable because of noise); if alternative uses are impractical, allow infill in urban areas</td>
<td>Situated along extended runway centerline beyond Zone 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prohibit children’s schools, large day care centers, hospitals, nursing homes</td>
<td>Approaching aircraft usually at less than traffic pattern altitude</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limit non-residential uses as in Zone 3.</td>
<td>Partially applicable for busy general aviation runways (because of elongated traffic pattern), runways with straight in instrument approach procedures, and other runways where straight-in or straight-out flight paths are common.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zone can be reduced in size or eliminated for runways with very low activity levels.</td>
</tr>
<tr>
<td>Zone</td>
<td>Location</td>
<td>Compatibility Qualities</td>
<td>Risk Factors / Runway Proximity</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
<td>-------------------------</td>
<td>--------------------------------</td>
</tr>
</tbody>
</table>
| 5    | Sideline Zones | • Avoid residential uses  
• Allow all common aviation-related activities provided that height criteria is met  
• Limit other non-residential uses similarly to Zone 3, but with slightly higher usage intensities  
• Prohibit children’s schools, large day care centers, hospitals, nursing homes | • Encompasses close-in area lateral to runways  
• Area not normally overflown; primary risk is with aircraft losing directional control on takeoff  
• Area is on airport property at most airports |
| 6    | Traffic Pattern Zone | • Allow residential uses  
• Allow non-residential uses; prohibit outdoor stadiums and similar uses with very high intensities  
• Avoid children’s schools, large day care centers, hospitals, nursing homes | • Generally low likelihood of accident occurrence at most airports; risk concern primarily is with uses for which potential consequences are severe  
• Zone includes all other portions of regular traffic patterns and pattern entry routes |
| 7    | Other Airport Environs | • Prohibit hazards to flight  
• Allow residential uses | • All areas outside Zones 1 through 6, but within AIA boundaries |
| *    | High Terrain | • Same as underlying safety zone |

**NOTES:**
See Chapter 3 for airport-specific criteria, which may change or provide additions to these policies.

**DEFINITIONS:**
Allow: Use is acceptable.
Limit: Use is acceptable only if density/intensity restrictions are met.
Avoid: Use generally should not be permitted unless no feasible alternative is available.
Prohibit: Use should not be permitted under any circumstances.

Children’s Schools: Through grade 12.
Large Day Care Centers: Commercial facilities as defined in accordance with state laws; for the purposes here, family day care homes and noncommercial facilities ancillary to a place of business are generally allowed.
Aboveground Bulk Storage of Fuel: Tank size greater than 6,000 gallons (this suggestion is based on the Uniform Fire Code criteria which are more stringent for larger tank sizes).

**SOURCE:**
Caltrans, California Airport Land Use Planning Handbook, January 2002, Table 9B.

**REFERENCES:**
The risk factors presented here are derived from the California Airport Land Use Planning Handbook, and are intended to demonstrate the need for the safety criteria provided in Chapters 2 and 3 of this ALUCP.
Height limits and the review of objects in airport airspace is determined under the guidelines of Federal Aviation Regulation (FAR) Part 77: Objects Affecting Navigable Airspace.
Hazards to flight would include tall objects, visual and electronic forms of interference, and land use development that would attract wildlife hazardous to aircraft operations.
2) For residential development, the density of the parcel proposed for development shall not exceed the following:

   i. If the size of the parcel is 10 acres or less, the development density shall not exceed the total density represented by all existing lots that lie fully or partially within a distance of 300 feet from the boundary of the parcel to be divided.

   ii. If the size of the parcel is greater than 10 acres (but no larger than 20 acres), then the development density shall be no greater than double the density permitted in accordance with the basic compatibility criteria listed in Table 2-3.

3) For non-residential development:

   i. If the size of the parcel proposed for development is 10 acres or less, the usage intensity (the number of people per acre) of the proposed use shall be no greater than the average intensity of all existing uses that lie fully or partially within a distance of 300 feet from the boundary of the proposed development.

   ii. If the size of the parcel proposed for development is greater than 10 acres (but no larger than 20 acres), the proposed use shall not have an intensity (the number of people per acre) more than 50% above the intensity permitted in accordance with the basic compatibility criteria listed in Table 2-3.

4) The ALUC should consider the eligibility of a parcel for infill development only once. In order for the ALUC to consider proposed development under these infill criteria, the local jurisdiction having land use authority (Alameda County or affected cities) must first identify the qualifying locations in its general plan or other adopted planning document that has been found consistent with the ALUCP by the ALUC. This action may take place in conjunction with the process of amending a general plan for consistency with the ALUC plan or may be submitted by the local jurisdiction for consideration by the ALUC at the time of adoption of this ALUCP. In either case, the burden for demonstrating that a proposed development qualifies as infill rests with the project proponent and/or local jurisdiction.

b) Nonconforming Uses. Uses that are not in conformance with this ALUCP may only be expanded as follows:

   1) Nonconforming residential uses may be expanded in building size provided that the expansion does not result in more dwelling units than currently exist on the parcel.
2) A nonconforming nonresidential development may be continued, modified, transferred, or sold, provided that no such use shall be expanded in area or increased in intensity (the number of people per acre) above the levels existing at the time of adoption of this ALUCP.

3) Any proposed expansion of a nonconforming use (in terms of the number of dwelling units or people on the site) shall be subject to ALUC review. Factors to be considered in such reviews include whether the development qualifies as infill or warrants approval because of other special conditions.

c) **Reconstruction.** An existing nonconforming development that has been fully or partially destroyed as the result of a calamity may be rebuilt only under the following conditions:

1) Nonconforming residential uses may be rebuilt provided that the expansion does not result in more dwelling units than existed on the parcel at the time of the damage.

2) A nonconforming nonresidential development may be rebuilt, even if completely destroyed, provided that the reconstruction does not increase the floor area of the previous structure or result in an increased intensity of use (i.e., more people per acre).

3) Nothing in Sections 2.7.5.7(c)(1) through 2.7.5.7(c)(2) is intended to preclude work required for normal maintenance and repair.

d) **Development by Right.** Nothing in these policies prohibits construction or alteration of a single-family home on a legal lot of record if such use is permitted by local land use regulations. Construction of other types of uses also may proceed if local government approvals, based upon previous ALUC compatibility criteria and project review, effectively qualify the development as existing.

e) **Parcels Lying within Two or More Compatibility Zones.** If a parcel is split by safety zone boundaries, the intensity of development allowed within the more restricted portion of the parcel should be transferred to the less restricted portion. However, the ALUC can consider less restrictive options on a case-by-case basis if special conditions or design criteria are applied to the proposed project. These special conditions may include:

1) Maintaining adequate open space for emergency landings (0.5 acre of parcel);

2) Clustering of development; and

3) Risk reduction building design (i.e., concrete walls, limited number of windows, upgraded roof strength, no skylights, enhanced fire sprinkler system, single-story height, increased number of emergency exits, etc.).

f) **Other Special Conditions.** The compatibility criteria set forth in this plan are intended to be applicable to all locations within each AIA. However, it is recognized that there may be specific situations where a normally incompatible use can be considered compatible
because of terrain, specific location, or other extraordinary factors or circumstances related to the site.

1) After due consideration of all the factors involved in such situations, the ALUC may find a normally incompatible use to be acceptable.

2) In reaching such a decision, the ALUC shall make specific findings as to why the exception is being made and that the land use will not create a safety hazard to people on the ground or aircraft in flight nor result in excessive noise exposure for the proposed use. Findings also shall be made as to the nature of the extraordinary circumstances that warrant the policy exception.

3) The burden for demonstrating that special conditions apply to a particular development proposal rests with the project proponent and/or the referring agency, not with the ALUC.

4) The granting of a special conditions exception shall be considered site specific and shall not be generalized to include other sites.

5) Special conditions that warrant general application in all or part of the AIA of one airport, but not at other airports, are set forth in Chapter 3 of this ALUCP.
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CHAPTER 3
Hayward Executive Airport Policies

3.1 Purpose and Scope

Chapter 3 of the Airport Land Use Compatibility Plan (ALUCP) for Hayward Executive Airport (HWD) presents the criteria, maps, and policies to be used by the Alameda County Airport Land Use Commission (ALUC) and other local jurisdictions. These policies shall apply when reviewing a proposal for land use development within the airport influence area (AIA) for its compatibility with airport operations. The ALUC and affected cities within the AIA shall also use these policies when modifying general plans, zoning ordinances, and other local land use policies. The authority for such reviews is derived from the California State Aeronautics Act (Public Utilities Code, Section 21670 et seq.).

This ALUCP is based on the City of Hayward’s most recent Master Plan for Hayward Executive Airport (Master Plan), which addresses proposed facility development during the 20-year horizon from 2000 to 2020. State law (PUC Section 21675 (a)) requires that data included in an ALUCP address the anticipated growth of an airport over a minimum of a 20-year period following publication. While the timeframe addressed by the HWD Master Plan does not extend to 2027 to fulfill this requirement, historical data obtained since publication of the Master Plan indicates that the data identified in the master plan will remain valid for the next 20-years (through 2027).

As part of Master Plan development, airport operators prepare operational forecasts based on historical data and industry trends. Based on these forecasts, operators can determine the types and extent of landside and airside facilities that will be required to meet demands during the planning horizon. The Master Plan forecasts identified that aircraft operations would grow from 181,966 total operations in 1996 to reach 268,310 operations in 2020. These forecasts differ substantially from recent historical data however, which indicate that operations at HWD have decreased since that time; historical Terminal Area Forecast (TAF) data from FAA indicates that 127,518 annual operations occurred in 2006, indicating a decrease of approximately 30% during the six year period since 1999.

Although annual operations are expected to increase from 2007 to 2020, they are unlikely to surpass the number of forecasted operations identified and used in the Master Plan (268,310 annual operations); therefore, the analysis of operational impacts associated with noise and the extent of proposed development in the Master Plan are likely to overestimate the number of operations throughout the 20-year horizon associated with this ALUCP.
This ALUCP is intended to be used in conjunction with the county-wide procedures and policies adopted by the ALUC, which are presented in chapters 1 and 2 of this document.

3.1.1 Airport Influence Area (AIA)

The policies within this ALUCP apply to all lands within the AIA, also known as the airport referral area. The AIA is the area within which the ALUC is authorized to review new local land use actions, plans, and policies. Figure 3-1 shows the AIA for HWD. This AIA was designated using political boundaries such as roads and other constructed boundaries, and encompasses an area that includes noise contours, flight tracks, safety zones, and navigable airspace. The AIA for HWD extends east to the Union Pacific railroad tracks and south to Tennyson Road, west to San Francisco Bay, and north to Lewelling Boulevard. The AIA includes portions of the cities of Hayward, San Leandro, and unincorporated areas of Alameda County in the vicinity of the Airport, including the Eden Planning Area, located north of the Airport. The boundaries of the AIA are shown on each of the four compatibility maps in this chapter.

The western portion of HWD’s AIA intersects with the southern portion of the AIA for Oakland International Airport (OAK) (see Figure 3-2). Should a question of jurisdictional authority arise within this zone of intersect between the AIAs, the compatible land use plan with the more stringent land use policies shall apply.

3.2 Compatibility Factors and Zones

3.2.1 Noise Impact Zones

Figure 3-3 presents the noise contours associated with operations at HWD. As shown in the figure, the 60 and 65 Community Noise Equivalent Level (CNEL) contours associated with operations at OAK extend into the AIA for HWD. In most cases where the contours overlap, the noise exposure associated with the OAK contours exceeds the noise exposure that would be associated with the HWD contours. Therefore, when reviewing potential development projects or land use changes in areas where the OAK and HWD contours overlap, noise policies associated with the OAK ALUCP shall apply.

3.2.2 Safety Zones

To depict the relative risks of aircraft accidents, the California Airport Land Use Planning Handbook (Caltrans, 2002) provides guidance for developing safety zones and the risk contours upon which they are based. The risk contours are derived from the accident location database described in the Handbook and show the relative concentrations of accidents near the ends of runways of different lengths. The safety zones are developed using this data and are created for varying runway lengths and operational characteristics, while at the same time taking into account aeronautical factors that affect where aircraft accidents are most likely to occur.
Airport Influence Area

Hayward Executive Airport
Property Boundary

Jurisdictional/Planning Area Boundaries
A total of seven different safety zones are shown in Figure 3-4. The choice of safety zone criteria appropriate for a particular zone is primarily a function of risk acceptability. For example, some land uses represent intolerable risks when located near aircraft operation areas and are prohibited (e.g., schools and hospitals). Where the risks associated with a particular land use are considered significant but tolerable, restrictions may be established to reduce the risk. Acceptable land uses generally require no limitations (see Table 3-2 for a list of compatible land uses).

### 3.2.3 FAR Part 77 Surfaces (Airspace Protection)

The airspace protection zones established for the purpose of evaluating the airspace compatibility of land use development in the AIA for HWD are depicted on Figure 3-5. The zones represent the imaginary surfaces defined for the Airport in accordance with Federal Aviation Regulations (FAR) Part 77.

### 3.2.4 Overflight Zones

The overflight zones established for the purpose of providing overflight notification for land uses near HWD are depicted in Figure 3-6. The overflight zones were developed based on the flight tracks and traffic patterns at HWD.

### 3.3 Compatibility Policies

#### 3.3.1 Noise

##### 3.3.1.1 Objective

Noise compatibility policies are established in order to prevent the development of noise-sensitive land uses in portions of the airport environ that are exposed to significant levels of aircraft noise.

##### 3.3.1.2 Evaluation

The noise compatibility policies set forth in this section shall be used in conjunction with Figure 3-3 and Table 3-1 during the evaluation of proposed land uses within the AIA for HWD.

a) The criteria in this section indicate the maximum acceptable airport-related noise levels, which are measured in terms of CNEL, for a range of land uses.

b) Within the six noise exposure ranges, each land use type is shown as “compatible”, “conditional”, or “incompatible”. The meaning of these terms is provided in Table 3-1 and differ for indoor versus outdoor uses.

c) Land uses not specifically listed in Table 3-1 shall be evaluated using the criteria for similar listed uses.
3.3.1.3 Measurement

The magnitude of exposure experienced by land around HWD to airport-related noise shall be described in terms of CNEL.

a) The noise contours depict the greatest annualized noise impact, measured in terms of CNEL, anticipated to be generated by the airport over the planning timeframe, which in accordance with state law, extends at least 20 years into the future.

b) The noise contours depicted in Figure 3-3 were created for the current master plan for HWD and utilized by this ALUCP for the purpose of establishing the noise compatibility criteria herein. The ALUC should periodically review the projected CNEL contours and update them if and when appropriate.

c) The threshold for evaluation is the projected 60 dB CNEL contour. All proposed land use changes that would sustain noise exposure at a level that is less than 60 CNEL are considered consistent with the noise compatibility policies.

3.3.1.4 Factors Determining Noise Criteria

The factors considered during the development of noise criteria include the following:

a) Established federal and state regulations and guidelines;

b) Established local noise-abatement policies, general and specific plan policies;

c) The degree to which noise would affect the activity associated with a particular land use, and ordinances; and

d) The extent of outdoor activity associated with a particular land use.

3.3.1.5 Appropriate Noise Levels for Specific Types of Land Use Development

a) The maximum CNEL considered acceptable for new residential uses in the vicinity of HWD is anything less than 65 dB.

b) The compatibility of new nonresidential development with noise levels generated by the Airport is indicated in Table 3-1.

1) Buildings associated with land uses listed as “conditional” must have added sound attenuation as necessary to meet the interior noise level standards indicated in Table 3-1 and in Policy 3.3.1.6.

2) Land uses not specifically identified shall be evaluated using the criteria for listed land uses of a similar nature.
3.3.1.6 Interior Noise Levels

Land uses for which interior activities may be easily disrupted by noise shall be required to comply with the following interior noise level criteria:

a) The maximum, aircraft-related, interior noise level which shall be considered acceptable for land uses within the AIA is 45 dB CNEL in (calculations should assume windows are closed):

1) Living and sleeping areas of single- or multi-family residences;
2) Hotels and motels;
3) Hospitals and nursing homes;
4) Churches, meeting halls, office buildings, and mortuaries; and
5) Schools, libraries, and museums.

b) The maximum, aircraft-related, interior noise level which shall be considered acceptable for land uses within the AIA is 50 dB CNEL in (calculations should assume windows are closed):

1) Office environments;
2) Eating and drinking establishments; and
3) Other miscellaneous commercial facilities.

c) When reviewed as part of a general plan or zoning ordinance amendment or as a major land use action, evidence that proposed structures will be designed to comply with these criteria shall be submitted to the ALUC under the following circumstances:

1) Any mobile home within HWD’s 55-dB CNEL contour.
2) Any single- or multi-family residence within HWD’s 55-dB CNEL contour.
3) Any hotel or motel, hospital or nursing home, church, meeting hall, office building, mortuary, school, library, museum, or other noise-sensitive non-residential use within HWD’s 65-dB CNEL contour.

3.3.1.7 Engine Run-Up and Testing Noise

ALUC consideration of noise from engine run-up and testing noise activities shall be limited as follows.
a) Aircraft noise associated with pre-flight engine run-ups, taxing of aircraft to and from runways, and other operation of aircraft on the ground is considered part of airport operations and is not subject to ALUC regulation. (Engine testing noise is not normally included in the noise contours prepared for an airport and has not been considered in preparation of the noise contours presented in Figure 3-2). However, the ALUC may consider noise from these sources when reviewing the compatibility of proposed land uses to the extent that this noise is reflected in airport noise contours approved by the airport operator and the ALUC.

b) Noise from aircraft ground operations should be considered by the ALUC when reviewing airport master plans or development plans in accordance with the mandatory and voluntary review policies discussed in Chapter 2.

c) Noise from the testing of aircraft engines on airport property is not deemed an activity inherent in the operation of an airport, and it is not an airport-related impact addressed by this ALUCP. Noise from these sources should be addressed by the noise policies of local agencies in the same manner as noise from other industrial sources.
# TABLE 3-1
## NOISE COMPATIBILITY CRITERIA

<table>
<thead>
<tr>
<th>Land Use Category</th>
<th>Exterior Noise Exposure (dB CNEL)</th>
<th>Interpretation/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60</td>
<td>65</td>
</tr>
<tr>
<td><strong>Agricultural, Recreational, and Animal-Related</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor amphitheaters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoos; animal shelters; neighborhood parks; playgrounds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regional parks; athletic fields; golf courses; outdoor spectator sports; water recreation facilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nature preserves; wildlife preserves; livestock breeding or farming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture (except residences and livestock); fishing</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Residential, Lodging, and Care</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential, (including single-family, multi-family, and mobile homes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential hotels; retirement homes; hospitals; nursing homes; intermediate care facilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotels; motels; other transient lodging</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Public</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schools; libraries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auditoriums; concert halls; indoor arenas; places of worship; cemeteries</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Commercial and Industrial</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office buildings; office areas of industrial facilities; medical clinics; clinical laboratories; commercial - retail; shopping centers; restaurants; movie theaters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial - wholesale; research and development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial; manufacturing; utilities; public rights-of-way</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Land Use Acceptability</strong></td>
<td>Compatible</td>
<td>Conditional</td>
</tr>
<tr>
<td><strong>Indoor Uses</strong></td>
<td>Standard construction methods will sufficiently attenuate exterior noise to an acceptable indoor community noise equivalent level (CNEL).</td>
<td>Building structure must be capable of attenuating exterior noise to the indoor CNEL indicated by the number; standard construction methods will normally suffice.</td>
</tr>
<tr>
<td><strong>Outdoor Uses</strong></td>
<td>Activities associated with the land use may be carried out with essentially no interference from aircraft noise.</td>
<td>Outdoor Uses: CNEL is acceptable for outdoor activities, although some noise interference may occur; caution should be exercised with regard to noise-sensitive uses.</td>
</tr>
</tbody>
</table>

* The maximum acceptable noise exposure for new residential development in the vicinity of HWD is set at 55 dB CNEL (see Policy 3.3.1.2 (b).)

Source: ESA, 2007; California Airport Land Use Compatibility Handbook (Caltrans, 2002).

Note: The layout of this table was created using the framework developed in previous compatibility plans (Mead & Hunt, 2006).
3.3.2 Safety

3.3.2.1 Objective

Land use safety compatibility criteria are developed to minimize the risks to people and property on the ground as well as those people in an aircraft in the event of an accident or emergency landing occurring outside the airport boundary. Policies set forth in this section focus on reducing the potential consequences of such events when they occur. The most stringent land use controls should be applied to the areas with greatest risk potential.

3.3.2.2 Evaluation

The safety compatibility of proposed uses within HWD’s AIA should be evaluated in accordance with the policies set forth in this section, including the safety zones presented on Figure 3-4 and the criteria listed in Table 3-2.

a) The criteria in Table 3-2 indicate whether a particular type of land use is “compatible”, “conditional”, or “incompatible” with the exposure to aircraft accident risks. The meaning of these terms is provided in the table.

b) Land uses not specifically listed should be evaluated using the criteria for similar listed uses.

3.3.2.3 Measurement

The concept of risk is essential to maintaining a high degree of safety in an airport environment. For the purposes of this ALUCP, the risk that potential aircraft accidents pose to land around HWD shall be defined in terms of the geographic distribution of where accidents are most likely to occur. Due to the infrequency of aircraft accidents, the pattern of accidents at any one airport cannot be used to predict where future accidents are most likely to occur around a particular airport. The safety zones depicted in the California Airport Land Use Compatibility Handbook (Handbook), and upon which the safety zones in the ALUCP are based, were formulated using the accident distribution patterns presented in the Handbook for similar airports nationwide.

3.3.2.4 Factors Determining Safety Criteria

In determining criteria for each safety zone and the overall approach to this compatibility factor, the following issues were considered:

a) Locations, delineated in respect to the runway, where aircraft accidents near general aviation airports typically occur. The most stringent land use controls should be applied to the areas where the greatest risk of aircraft accidents is likely to occur (as delineated by the Caltrans Handbook).
b) Runway length and approach categories for each runway at HWD. These factors are reflected in the safety zone shapes and sizes, and are based upon zones suggested in the Caltrans Handbook.

c) Encroachment of incompatible land uses. The Caltrans Handbook suggests that, “because many general aviation airports are located on the fringes of urban areas, both the threat of new incompatible development and the opportunity for ALUCs to help preserve a compatible airport land use relationship are great.” The location of HWD in a dense urban setting amplifies the need to strike a balance between making land use decisions that will benefit both local jurisdictions and the public airport serving them, while preserving the safety of the general public.

3.3.2.5 Airport Safety Zones

A total of seven different safety zones were identified as shown in Figure 3-4. As described above, the choice of safety zone criteria appropriate for a particular zone is largely a function of risk acceptability. Land uses (e.g., schools and hospitals) which, for a given proximity to the airport, are judged to represent intolerable risks must be prohibited. Where the risks of a particular land use are considered significant but tolerable, establishment of restrictions may reduce the risk to an acceptable level. Uses which are basically acceptable generally require no limitations (see Table 3-2 for a list of compatible land uses within each safety zone).

In certain situations, such as venues accommodating the assemblage of large numbers of people (i.e., sports stadiums, amphitheaters, etc.), the perceived risk of an aircraft accident occurring in a location where large amounts of people have restricted mobility may be perceived as an intolerable risk no matter where it may be located within an AIA.

a) For the purpose of presenting safety policies, each safety zone shall be considered as such:
   - Zone 1: Runway Protection Zones
   - Zone 2: Inner Approach / Departure Zones
   - Zone 3: Inner Turning Zones
   - Zone 4: Outer Approach / Departure Zones
   - Zone 5: Sideline Zones
   - Zone 6: Traffic Pattern Zone
   - Zone 7: Other Airport Environs outside of Zones 1 – 6, but within the AIA

3.3.2.6 Residential Development Criteria

The development of new residential land uses is restricted in the following ways:

a) In Safety Zone 1, no new dwellings shall be constructed under any circumstance.
b) In Safety Zones 2, 3, 4, and 5, new dwellings are not recommended within the zone boundaries. However, due to the existing urban nature of the surrounding environs and the existing residential land use, infill may be allowed up to an average of the surrounding residential use (except for high density residential), provided that other safety criteria identified in this plan are satisfied (see Policy 2.7.5.7(a) for infill criteria). Additional criteria for residential development in these zones are as follows:

1) The minimum adjacent open space required is approximately 0.5 acre (see Policy 3.3.2.11).
2) Clustering to meet these criteria is recommended for projects of 10.0 acres or more with one 0.5 acre open space area to be provided per each 10 acres of the site.
3) For projects of less than 10 acres, compliance with the clustering condition is desirable, but not required as a condition for development approval.
4) The clustering of residential development must not result in the density within any single 1.0-acre area exceeding 20.0 dwelling units per acre.

c) In Safety Zones 6 and 7, residential development is not restricted.

3.3.2.7 Nonresidential Development Criteria

The following criteria apply to most proposed nonresidential development. Separate or additional criteria for land uses of special concern are described in Policy 3.3.2.8. For the purposes of the ALUCP, the primary measure of risk exposure for people on the ground in the event of an aircraft accident is based in the number of people concentrated in areas most susceptible to the risk of aircraft accidents.

a) With respect to the vicinity of HWD, the maximum acceptable intensity of new nonresidential development, including all people (e.g., employees, customers/visitors) who may be at a particular location at any single point in time, both indoor and outdoors, shall be limited to the intensities indicated in Table 3-2. Nonresidential intensity criteria reflect for an urban settings (as set forth in Table 9C of the Caltrans Handbook), which reflects the current environment around HWD.

b) The compatibility of a proposed nonresidential land use shall be evaluated using the land use types listed in Table 3-2.

1) The nonresidential uses are categorized primarily with respect to the typical occupancy load factor of the use measured in terms of square footage per occupant. Also indicated in the table is the California Building Code (CBC) classification under which each facility is presumed to be constructed.

2) Proposed development not listed in Table 3-2 shall be evaluated by comparison to a similar use on the list.

c) Land use shown as “conditional” should comply with the conditions listed in the table.
1) In circumstances where a floor area ratio limit is cited as a conditional criteria, the limit is based on a typical occupancy level (floor area square footage per person) as defined by the CBC for that use\(^1\). The assumed occupancy levels are shown in the table.

2) Local jurisdictions may make exceptions for rare, special events for which a facility is not designated and normally not used and for which extra safety precautions can be taken as appropriate.

3) The ALUC may allow intensity bonuses for conditional uses within a particular safety zone when risk-reducing building design techniques are employed. Risk-reduction building features include:

- Concrete walls;
- Limited number and size of windows;
- Upgraded roof strength;
- No skylights;
- Enhanced fire sprinkler system;
- Single-story height; and/or
- Increased number of emergency exits.

In these circumstances, the ALUC should allow no more than 1.5 to 3.0 times the basic intensity (as determined in Table 3-2) required.

d) Land uses listed as “incompatible” should not be permitted to be developed within the indicated safety zones.

e) Though no limit is placed on the intensity of new, nonresidential uses within Safety Zones 6 and 7, exceptions to these criteria should be considered on a case-by-case basis by the ALUC when reviewing development proposals or during mandatory reviews that entail large indoor or outdoor assembly facilities.

### 3.3.2.8 Land Uses of Particular Concern

Land uses which pose the greatest concern are those in which the occupants have reduced effective mobility or are unable to respond in emergency situations. Children’s schools, day care centers, hospitals, nursing homes, and other uses in which the majority of occupants are children, elderly, and/or handicapped shall be prohibited within Zones 1 through 5.

a) For the purposes of these criteria, children’s schools include all grades through grade 12.

b) Day care centers and family day care homes are defined by state law. Non-commercial day care centers ancillary to a place of business are permitted in Zones 2 through 5

\(^1\) The equation for determining the appropriate floor area ratio is as follows:

\[
\text{Floor area ratio} = \frac{(\text{allowable usage density}) \times (\text{occupancy load factor})}{43,560 \text{ square feet in one acre}}
\]
provided that the overall use of the property meets the intensity criteria indicated below. Family day care homes are permitted in any location where residential development is permitted and the intensity of the day care home is $\leq 6$ people.

c) In-patient health care facilities include hospitals, health care facilities, and other types of non-ambulatory medical centers. Land uses of these types are prohibited in Safety Zones 1 through 5, and permissible in Zones 6 and 7.

d) Out-patient health care facilities such as health care centers, clinics, dentists’ offices, and other types of ambulatory facilities are conditionally acceptable in Safety Zone 3 and 4 provided that the conditional criteria in Table 3-2 are achieved.

e) Storage of fuel and other hazardous materials within the airport environs are restricted as follows:

1) Within Zones 1 and 2, storage of any such substance is prohibited.

2) Within Zones 3, 4, and 5 special measures to minimize risk in the event of an aircraft accident are to be determined by the appropriate permitting agency. Aboveground fuel storage of more than 6,000 gallons is prohibited.

3.3.2.9 Mixed-Use Development

If a combination of land use types listed separately in Table 3-2 is proposed for a single project or site, the following policies apply:

a) Where residential and nonresidential uses are proposed to be located in the same or nearby buildings, both residential and nonresidential density criteria must be achieved. The number of dwelling units shall not exceed the density limits indicated in Table 3-2. Both occupancy totals (residential and nonresidential) will be considered with respect to the nonresidential usage intensity criteria cited in the table.

1) Except as designated below in paragraph (2), this mixed-use development criterion is proposed for dense, urban-type developments where the overall usage intensity and ambient noise levels are relatively high.

2) Mixed-use development is prohibited where the residential component would be exposed to noise levels exceeding the limits set in Policy 3.3.1.5.

b) Where residential and nonresidential uses are proposed to be located in the same or nearby buildings, both residential and nonresidential density criteria must be met. The number of dwelling units shall not exceed the density limits indicated in Table 3-2. Both occupancy totals (residential and nonresidential) will be considered with respect to the nonresidential usage intensity criteria cited in the table.

1) Except as designated below in Paragraph (2), this mixed-use development criterion is intended for dense, urban-type developments where the overall usage intensity and ambient noise levels are relatively high.
2) Mixed-use development is prohibited where the residential component would be exposed to noise levels above the limits set in Policy 3.3.1.5.

c) Where proposed development will contain a mixture of nonresidential land uses as identified in Table 3-2, the total number of occupants for all the uses shall be added to determine the total number of people on the site. The total number of occupants on the site shall not exceed the maximum set forth in Table 3-2.

1) The number of people for each component use shall be estimated to equal the square footage of that use divided by the occupancy load factor (square footage per person) cited in Table 3-2.

2) If an occupancy load factor is not provided for a component use, the number of occupants may be estimated by using parking space requirements of the affected jurisdiction.

3.3.2.10 Criteria for Clustering of Development

The ALUC generally supports clustering as a means for both enhancing safety compatibility in the vicinity of airports and accomplishing other development objectives. Clustering occurs when development is concentrated on one portion of a site or within an overall safety zone, leaving other areas as open space. If the area remaining undeveloped is relatively level and free of large obstacles, clustering potentially allows a greater amount of open space towards which a pilot can land the aircraft; thus reducing the risk of harm to people on the ground. However, an aircraft still has the potential to strike a clustered site, and as such, limitations on the maximum concentrations of dwellings or people in a small area of a large project site are appropriate.

a) No development shall be clustered in a manner that would exceed the intensity limits listed as incompatible in Table 3-2.

b) An intensity bonus of up to 3.0 times the normal allowable intensity (as described in Table 3-2) can be applied for development that employs risk reduction design standards as described in Policy 2.7.6.7(e).

3.3.2.11 Open Land

In the event of an emergency landing, risks to both people in the aircraft and on the ground can be minimized by providing as much open land as possible in the vicinity of the airport.

a) To be considered “open land”, an area should:

1) Be free of obstacles such as large trees, walls, or poles, and overhead wires.

2) Have minimum dimensions of approximately 75 feet by 300 feet (0.5 acre).

b) Open land areas should be oriented with the typical direction of aircraft flight over the location.
c) Roads and automobile parking areas are considered acceptable as open land areas if they meet criterion 3.3.2.11 (a).

d) Open land areas should be identified at the general or specific plan level, or as part of large (greater than 20 acres) development projects.

e) Open land should not preserve or create habitat that could pose hazards to aircraft. For example, wildlife refuges, mitigation banks, wetlands, and other uses that provide habitat or food sources for birds or other wildlife that are hazardous to aircraft operations.

f) Clustering of development, as detailed in Policy 3.3.2.10, is encouraged to increase the amount of open land.
<table>
<thead>
<tr>
<th>Types of Land Use</th>
<th>Description of Occupancy</th>
<th>Safety Zones</th>
<th>Criteria for Conditional Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Note: Multiple categories may apply to same project</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Maximum Nonresidential Intensity (People/Acre)</td>
<td>10</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td>Required Open Land</td>
<td>100%</td>
<td>25%</td>
<td>15%</td>
</tr>
<tr>
<td>CBC Groups*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-1</td>
<td>High capacity indoor assembly room (≥1,000 people): professional sports arena, concert hall, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-2 - A-2.1</td>
<td>Medium to large indoor assembly room (≥300, &lt;1,000 people): malls, theaters, meeting halls, etc. (approx. 15 s.f./ person)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-3</td>
<td>Low capacity indoor assembly room (&lt;300 people) meeting rooms, college or university lecture halls, places of worship, etc. (approx. 60 s.f./ person)</td>
<td></td>
<td>Zones 3, 4: Floor area ratio as indicated</td>
</tr>
<tr>
<td></td>
<td>Large outdoor assembly area (&gt;1,000 people): amusement park area, amphitheaters, stadiums, etc.</td>
<td></td>
<td>Zones 6, 7: Allowable if no other suitable site outside AIA is available.</td>
</tr>
<tr>
<td>A-4</td>
<td>Medium outdoor assembly area (≥300, &lt;999 people): fair grounds, etc.</td>
<td></td>
<td>Zones 3, 4, 6: Allowable if no other suitable site outside AIA is available.</td>
</tr>
<tr>
<td></td>
<td>Small outdoor assembly area (&gt;50, ≤299 people): camp ground, community pool, etc.</td>
<td></td>
<td>Zones 3, 4, 6: Allowable if no other suitable site outside AIA is available.</td>
</tr>
<tr>
<td>B</td>
<td>Office buildings (approx. 215 s.q./ person)</td>
<td>0.30</td>
<td>0.49</td>
</tr>
<tr>
<td>B</td>
<td>Small eateries/drinking establishments (approx. 60 s.f./ person)</td>
<td></td>
<td>0.14</td>
</tr>
<tr>
<td>B</td>
<td>Misc. medium sized businesses (approx. 200 s.f./ person): salons, electronics stores, etc.</td>
<td>0.28</td>
<td>0.46</td>
</tr>
<tr>
<td>E-1 - E-2</td>
<td>Children's schools (K - 12)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-3</td>
<td>Commercial Daycare center (≥6 people)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*CBC Groups: A-1: High capacity indoor assembly room (≥1,000 people): professional sports arena, concert hall, etc. A-2 - A-2.1: Medium to large indoor assembly room (≥300, <1,000 people): malls, theaters, meeting halls, etc. (approx. 15 s.f./ person) A-3: Low capacity indoor assembly room (<300 people) meeting rooms, college or university lecture halls, places of worship, etc. (approx. 60 s.f./ person) A-4: Medium outdoor assembly area (≥300, <999 people): fair grounds, etc. A-5: Small outdoor assembly area (>50, ≤299 people): camp ground, community pool, etc. B: Office buildings (approx. 215 s.q./ person) B: Small eateries/drinking establishments (approx. 60 s.f./ person) B: Misc. medium sized businesses (approx. 200 s.f./ person): salons, electronics stores, etc. E-1 - E-2: Children's schools (K - 12) E-3: Commercial Daycare center (≥6 people)
### TABLE 3-2
SAFETY COMPATIBILITY CRITERIA

<table>
<thead>
<tr>
<th>Types of Land Use</th>
<th>Description of Occupancy</th>
<th>Safety Zones</th>
<th>Criteria for Conditional Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td><strong>Maximum Nonresidential Intensity (People/Acre)</strong></td>
<td>10</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td><strong>Required Open Land</strong></td>
<td>100%</td>
<td>25%</td>
<td>15%</td>
</tr>
<tr>
<td>F-1, 2</td>
<td>Manufacturing, research and development (300 s.f./ person)</td>
<td>0.69</td>
<td>0.69</td>
</tr>
<tr>
<td>H-1, 2, 3, 4, 5, 6, 7</td>
<td>Occupancies utilizing hazardous (flammable, explosive, corrosive, or toxic) materials</td>
<td></td>
<td>Zones 3 - 5: Special measures to minimize risk in the event of an aircraft accident to be determined by permitting agencies</td>
</tr>
<tr>
<td>I-1.1</td>
<td>Nurseries for full-time care of children (≤14 people)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I-1.1 - I-1.2</td>
<td>Health care facilities: hospitals, health care centers, sanitariums, nursing homes for nonambulatory patients, etc. (approx. 250 s.f./ person)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I-2</td>
<td>Congregate care facilities (&gt;5 patients): nursing homes for ambulatory patients, assisted living facilities (approx. 240 s.f./ person)</td>
<td>0.55</td>
<td>0.55</td>
</tr>
<tr>
<td>I-3</td>
<td>Jails, prisons, mental institutions, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>Mixed use retail centers with restaurant facilities (approx. 110 s.f./ person)</td>
<td>0.15</td>
<td>0.25</td>
</tr>
<tr>
<td>R-1</td>
<td>Hotels, apartments, congregate residences for ≥10 persons (&gt;14.0, ≤20.0 d.u./acre)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-2.1-2.1.1</td>
<td>Residential care facilities for the elderly (&lt;6, ≥6 non-ambulatory clients)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-2.2 - 2.2.1</td>
<td>Residential care facilities for the elderly (&lt;6, ≥6 ambulatory clients)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-2.3 - 2.3.1</td>
<td>Residential-based hospice facilities (&lt;6, ≥6 bedridden clients)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### TABLE 3-2
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<tbody>
<tr>
<td>Max. Nonresidential Intensity (People/Acre)</td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Required Open Land</td>
<td>100%</td>
<td>25%</td>
<td>15%</td>
</tr>
<tr>
<td>R-3 Low density residential (0 – 5 d.u./ acre²)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium density residential (7 – 10 d.u./ acre²)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>High density residential (9 – 16 d.u./ acre²)</td>
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<tr>
<td>S-1 Storage of hazardous materials: gas stations, etc.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>S-2 Warehouses, distribution facilities (approx. 500 s.f./ person)</td>
<td>0.69</td>
<td>1.15</td>
<td></td>
</tr>
<tr>
<td>S-3 Repair garages not requiring use of flammable objects</td>
<td></td>
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<td></td>
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<tr>
<td>S-4 Open parking garages</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-1 Private garages, carports, and agricultural buildings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-2 Tanks, and towers</td>
<td></td>
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<td></td>
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<tr>
<td>Other Types of Land Uses</td>
<td></td>
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<tr>
<td>Agriculture</td>
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<tr>
<td>Truck and specialty crops³</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Field and stalk crops (grains, rice, but no stalk crops)³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field crops (corn and other stalk crops)³</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Pasture and range land</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orchards and vineyards³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry farm and grain³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tree farms, landscape nurseries, and greenhouses</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Fish farms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feed lots and stockyards</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Poultry farms</td>
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<td></td>
<td></td>
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<tr>
<td>Dairy farms</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Natural Uses</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Forest reserves</td>
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<tr>
<td>Fish and game reserves</td>
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<tr>
<td>Required Open Land</td>
<td>100%</td>
<td>25%</td>
<td>15%</td>
</tr>
</tbody>
</table>

| Land reserves and open space | | | | | | | Zone 1: Not allowed in Runway Safety Area |
| Waterways (rivers, creeks, swamps bays, lakes) | | | | | | | |
| Golf courses⁵ | | | | | | | Zones 2 – 4: See airspace protection policies in Section 3.3.3. Avoid vegetation and water uses that attract wildlife. |
| Parks (playgrounds, picnic areas, athletic fields, tennis courts, etc.)³ | | | | | | | |
| Riding stables and trails | | | | | | | |
| Marinas | | | | | | | |
| Roadways | | | | | | | Zone 1: Not allowed in Object Free Area |
| Reservoirs | | | | | | | Zone 1: Not allowed in Object Free Area |
| Water treatment³ | | | | | | | Mitigation required to prevent attraction of wildlife hazards |
| Sewage disposal³ | | | | | | | |
| Electrical substations⁴ | | | | | | | Zone 3: Allowable if no other suitable site outside AIA is available. |
| Power plants⁴ | | | | | | | Zones 6 and 7: Allowable if no other suitable site outside AIA is available. Also see Section 3.3.3.7(b) |
| Power lines⁴ | | | | | | | |

**Compatible**: Use is acceptable without conditional restraints (noise, airspace protection, and/or overflight limitations may still apply)

**Conditional**: Use is considered acceptable if listed conditions are met

**Incompatible**: Use should not be permitted under any circumstances

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*CBC Groups*: Describes building occupancy types established by the California Building Code (see Appendix D)

1. These uses may generate dust, smoke, or other hazards to flight. Also see Section 3.3 for applicable policies.
2. Ranges for dwelling units per acre derived from ranges similar to zoning from jurisdictions within HWD AIA.
3. These uses may attract birds or other wildlife considered potentially hazardous to flight.
4. Power lines, smoke stacks, or other tall objects associated with these uses may be hazards to flight. Also see Section 3.3

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Note: The layout of this table was created using the framework developed in previous compatibility plans (Mead & Hunt, 2006).
3.3.3 Airspace Protection

3.3.3.1 Objective
Similar to safety policies, airspace protection criteria is intended to reduce the risk of harm to people and property resulting from an aircraft accident. This is accomplished by the establishment of compatibility policies that seek to prevent the creation of land use features that can be hazards to the airspace used by aircraft in flight and have the potential to cause an aircraft accident to occur. Such hazards may be physical, visual, or electronic.

3.3.3.2 Evaluation
Tall structures, trees, other objects, or high terrain on or near airports, may constitute hazards to aircraft. Federal regulations establish the criteria for evaluating potential obstructions. These regulations require that the FAA be notified of proposals related to the construction of potentially hazardous structures (see Appendix C). The FAA conducts “aeronautical studies” of proposed projects to determine whether they would pose risks to aircraft, but it does not have the authority to prevent their creation. The purpose of ALUC airspace protection policies, together with regulations established by local land use jurisdictions and the state government, is to avoid the creation of hazards to the navigable airspace. The policies set forth in this section apply to the entire AIA.

3.3.3.3 Measurement
Federal Aviation Regulations (FAR) Part 77, Objects Affecting Navigable Airspace, provides guidance for the height of objects that may affect normal aviation operations. The guidance provided by Part 77 is not absolute, however. Deviation from the Part 77 standards does not necessarily mean that a proposed object is prohibited from construction, only that the offending object must be evaluated by the FAA and that mitigative actions, such as marking or lighting may be required. Figure 3-5 depicts the Part 77 surfaces in the vicinity of HWD.

3.3.3.4 Factors Determining Airspace Protection Criteria
As described above, airspace protection policies rely upon regulation enacted by FAA and the state of California; ALUC policies are intended to help implement the federal and state regulations.

a) FAA has well-defined standards by which potential hazards to flight, especially airspace obstructions, can be assessed. However, FAA has no authority to prevent the creation of such hazards; that authority rests with state and local officials.

b) California airspace protection standards mostly mirror those of the FAA; the primary difference being that state law gives the California Department of Transportation, Division of Aeronautics and local agencies the authority to enforce the standards.
3.3.3.5 FAA Notification

Proponents of a project that may exceed the elevation of a Part 77 surface must notify the FAA as required by FAR Part 77, Subpart B, by the State Aeronautics Act, and by Public Utilities Code Sections 21658 and 21659.

a) Local jurisdictions shall inform project proponents of the requirements for notifying the FAA.

b) FAA review is required for any proposed structure more than 200 feet above the ground level of its site. All such proposals also shall be submitted to the ALUC for review regardless of where in the county the object would be located.

c) Any project submitted to the ALUC for airport land use compatibility review for reasons of height issues shall include a copy of FAR Part 77 notification to the FAA and the results of the FAA’s analysis.

d) FAA notification shall not automatically trigger an airport compatibility review of a project by the ALUC, unless the general plan of the jurisdiction in which the project is located has not been deemed compatible with this ALUCP.

3.3.3.6 Obstruction Marking and Lighting

FAA or the California Division of Aeronautics will determine the need for marking and lighting of obstructions as part of aeronautical studies conducted in accordance with FAR Part 77. Under most circumstances, when reviewing proposed structures that exceed the height criteria, The ALUC is expected to abide by the FAA’s conclusions regarding marking and lighting requirements. However, situations may arise in which the ALUC, because of its particular knowledge of local airports and airspace, may reach a different conclusion than the FAA. In such instances, the ALUC may determine either that a proposed structure is unacceptable or that it is acceptable only with appropriate marking and lighting. Any marking and lighting that the ALUC may require shall be consistent with FAA standards as to color and other features.

3.3.3.7 Other Flight Hazards

Land uses that may cause visual, electronic, navigational, or bird strike hazards to aircraft in flight shall be allowed within the airport influence area only if the uses are consistent with FAA rules and regulations.

a) Specific characteristics to be avoided include:

1) Glare or distracting lights that could be mistaken for airport lights;

2) Sources of dust, heat, steam, smoke, or that may impair pilot;

3) Sources of steam or other emissions that may cause thermal plumes or other forms of unstable air that generate turbulence within the flight path;
4) Sources of electrical interference with aircraft communications or navigation; and

5) Any proposed use that creates an increased attraction for wildlife and that is inconsistent with FAA rules and regulations including, but not limited to, FAA Order 5200.5A, Waste Disposal Sites On or Near Airports, and Advisory Circular 150/5200-33B, Hazardous Wildlife Attractants On or Near Airports. Land uses with the possibility of attracting hazardous wildlife include landfills and certain recreational or agricultural uses that attract large flocks of birds.

b) Due to their propensity to generate smoke, steam, and other visual and physical hazards to aircraft in flight, power plants should be avoided in the AIA. However, given the varying types of power plants (i.e., thermal, solar, wind, etc.), proposed land uses of this kind within the AIA should be evaluated on a case-by-case basis, and in accordance with FAA criteria and the policies set forth in this Plan.

c) In order to resolve any uncertainties or differences with regard to the significance of the above types of flight hazards, local agencies should consult with FAA officials and HWD management.

3.3.3.8 Avigation Easement Dedication

Avigation easements transfer certain property rights from the owner of a property to the owner of the airport (i.e., the City of Hayward). ALUCs may recommend the dedication of an avigation easement as a condition for approval of development on property to restrict the heights of structures or trees. Avigation easements should be dedicated to the airport owner as a condition for any discretionary local approval of any residential or non-residential development within the area indicated on Figure 3-5 that has the potential to cause obstructions or other flight hazards as identified in Section 3.3.3.7.

a) The avigation easement shall:

1) Identify the potential hazard associated with the proposed project and its location within protected airspace;

2) Identify the airport owner’s right to clear or maintain the airspace from potential hazards;

3) Identify the right to mark potential obstructions and notify aviators of such hazards; and

4) Provide the right to pass within the identified airspace.

b) Neither a separate overflight easement nor a separate real estate disclosure is required for properties for which an avigation easement is required.

c) An example of an avigation easement is provided in Appendix E.
3.3.4 Overflight

3.3.4.1 Objective
Noise from the overhead flight of aircraft can be annoying and intrusive in locations beyond the limits of the noise contours identified in Section 3.3.1. While sensitivity to aircraft overflights will vary from person to person, the basic intent of overflight policies is to warn people near an airport of the presence of aircraft so that they have the ability to make informed decisions regarding the acquisition or lease of property within the influence area of an airport.

3.3.4.2 Evaluation
Unlike other compatibility factors such as noise, safety, or airspace protection, overflight compatibility policies do not restrict how land can be developed or used; rather, the policies in this section form the requirements for notification about airport proximity and aircraft overflights. These policies are to be applied by the ALUC when evaluating new development. The boundaries of the overflight zones around HWD are identified in Figure 3-6.

3.3.4.3 Measurement
Determining the boundaries of overflight noise exposure is difficult to determine as these locations extend well beyond the defined CNEL contours normally associated with areas of high noise exposure. The general locations over which aircraft routinely fly, including when they approach and depart an airport is generally used as an indicator of overflight annoyance concern. Furthermore, the FAA has determined that for the purposes of NEPA changes in Aircraft Flight tracks below 3,000 feet, AGL require more rigorous environmental review than those changes occurring above 3,000 feet AGL.

3.3.4.4 Factors Determining Overflight Criteria
In determining the overflight criteria for HWD, the following factors were considered:

a) Limitations of ALUC authority of existing land uses. In order to be most effective, overflight policies would ideally apply to all real estate transactions; existing and new. However, the ALUC only has authority to set requirements for new development and to define the boundaries within which real estate transfer disclosure under state law is appropriate.

b) Need for continuity of real estate disclosure to future property owners and tenants. It is recommended that real estate notifications run with the land and is provided to prospective future owners and tenants.

c) Excessiveness of avigation easement dedication used solely for buyer awareness purposes. Avigation easements require the conveyance of property rights from the owner to the party owning the easement, and as such, are best suited to locations where land use restrictions for noise, safety, or airspace protection is necessary.
3.3.4.5 Overflight Notification

As a condition for local agency approval of new residential land use development within the zone indicated on Figure 3-5, an overflight notification shall be recorded.

- The overflight notification shall contain the language provided by state law with regard to real estate transfer disclosure (see Policy 3.3.4.6) and shall be of a format similar to that indicated in Appendix E.
- The notification shall be evident to prospective buyers of the property and shall appear with the property deed.
- A separate overflight notification is not required where an avigation easement is provided.
- Recording of an overflight notification is not required for nonresidential development.

3.3.4.6 Buyer Awareness Measures

Effective as of January 1, 2004, California state statutes (Business and Professional Code Section 11010 and Civil Code Sections 1102.6, 1103.4, and 1353) mandate that sellers of real property must disclose information regarding whether their property is situated within an AIA.

- These state requirements apply to the sale or lease of newly subdivided lands and condominium conversions and to the sale of certain existing residential property.
- Except where dedication of an avigation easement is required, a deed notice shall be recorded for each parcel associated with any land use action reviewed by the ALUC. A sample recorded deed notice is presented in Appendix E.
- Where disclosure is required, the state statutes dictate that the following statement shall be provided:

  NOTICE OF AIRPORT IN VICINITY

  This property is presently located in the vicinity of an airport, within what is known as an airport influence area. For that reason, the property may be subject to some of the annoyances or inconveniences associated with proximity to airport operations (for example: noise, vibration, or odors). Individual sensitivities to those annoyances can vary from person to person. You may wish to consider what airport annoyances, if any, are associated with the property before you complete your purchase and determine whether they are acceptable to you.

- Although not mandated by state law, the recommendation of this ALUCP is that the airport proximity disclosure should be provided as part of all real estate transactions involving private property (both new and existing) within the airport influence area.
Figure 3-4
Safety Compatibility Zones

SOURCE: ESA Airports, ESRI, City of Hayward GIS Department, California Airport Land Use Planning Handbook (Caltrans, 2002)
Hayward Executive Airport Land Use Compatibility Plan, 2022

Figure 3-6

Overflight Compatibility Zones

Legend
- Baylands
- Runway
- Avigation Easement Zone
- Overflight Notification Zone
- Airport Boundary
- Airport Influence Area

SOURCE: ESA Airports, ESRI, City of Hayward GIS Department
CHAPTER 4
Hayward Executive Airport and Vicinity

4.1 Introduction

Hayward Executive Airport (HWD) is located in Alameda County approximately 15 miles southeast of the City of San Francisco. The Airport is located on the west side of Hayward, a city of 140,606 residents as of 20061 (see Figure 4-1).

The U.S. Army constructed Hayward Army Airfield in 1942 as a fighter base during World War II. In 1946 the Federal government declared the airport as “surplus property,” and transferred the property to the City of Hayward in 1947 when it became known as Hayward Municipal Airport. From 1947 to 1962 the facility was expanded to include an administration building, control tower, and 20 additional acres bringing the total airport property to 710 acres. In 1962, the city council adopted the first airport layout and land use plan for Hayward Municipal Airport.

Over the next 40 years, the demand on Hayward Municipal Airport as a general aviation facility increased, and the surrounding population grew. The airport reached its peak in 1978 with an aircraft traffic count of 421,048, making it one of the busiest general aviation airports in the country. Operations have decreased since that time, and HWD’s operations in 2007 totaled 149,975. In 1999, the name of the facility changed to Hayward Executive Airport.

4.2 Surrounding Airport Environs

4.2.1 Jurisdictions

HWD is owned and operated by the City of Hayward as a division of the Public Works Department. All airport facilities are located entirely within city boundaries.

4.2.2 Surrounding Land Uses

As shown in Figure 4-1, land uses in the vicinity of HWD include industrial, commercial, residential uses, and open space. Industrial land uses predominate west and southwest of the Airport. To the northwest is residential San Lorenzo, which is a part of the Eden Planning Area. Commercial uses are located east and south of the Airport along West A Street, Hesperian

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Boulevard, and Southland Drive. Beyond the industrial areas to the west are natural areas and the San Francisco Bay. The Skywest Public Golf Course and John F. Kennedy Memorial Park are located along the northern boundary of the airport on airport property. Beyond San Lorenzo and the Eden Planning Area is the city of San Leandro. Northwest of the San Lorenzo Creek, the boundary between San Lorenzo and the City of San Leandro, are the residential neighborhoods of Manor and Bonaire.

The Longwood-Winton Grove residential neighborhood is located east of Hesperian Boulevard and north of Winton Avenue. Additional residential land uses, referred to as the Southgate neighborhood, are located east of Hesperian Boulevard and south of Winton Avenue. The Mount Eden neighborhood, located west of Hesperian Boulevard and south of West Winton Avenue, includes a mobile home park known as Eden Gardens Estates and other residential uses south of the mobile home park. Policies and land use guidelines for these neighborhoods are contained within specific area plans associated with the City of Hayward General Plan (City of Hayward, 1990; City of Hayward, 1994; City of Hayward, 1996).

As shown in Figure 4-2, the predominant zoning in the vicinity of HWD is residential. In the City of Hayward, the single-family residential zoning district is primarily for single-family homes or small state-licensed child care facilities. Additional City of Hayward zoning districts in the HWD vicinity include an industrial district to the west, a neighborhood commercial district to the southeast, and an agricultural district to the south.

### 4.2.3 Alameda County Land Uses

The residential community of San Lorenzo, an unincorporated area of Alameda County, is located just north of Skywest Golf Course. This unincorporated urban community is part of the Eden Planning Unit of the County and is zoned for single-family residences by the County (see Figure 3-4). The Draft Eden Area General Plan was published October 14, 2005. The Draft Eden Area General Plan is a comprehensive statement of the County’s conservation and development policy for the Eden area, including policies for residential, commercial, retail, research and development, and industrial land uses.

### 4.2.4 Noise-Sensitive Land Uses

Figure 4-1
General Plan Land Use Designations in Vicinity of Hayward Executive Airport

SOURCE: City of Hayward, City of San Leandro, Alameda County; Thomas Brothers Maps
Figure 4-2

Generalized Existing Zoning in Vicinity of Hayward Executive Airport

SOURCE: City of Hayward, City of San Leandro, Alameda County; Thomas Brothers Maps
4.2.5 Future Airport Vicinity Land Uses

The airport is located in the City of Hayward’s Industrial Corridor Focus Area. The goals for this focus area include the conversion of some warehouse space to office or research and development, and an increased density of employees. The plan suggests the creation of multiple industrial zoning districts and changes to regulatory requirements such as parking and minimum parcel size.

4.3 Land Use Planning Policies and Regulations

The State of California requires all local governments to enact a general plan which establishes policies to guide future development. The policies of the general plan are implemented through ordinances regulating development, including the zoning ordinance, which regulates the use of land, the density of development, and the height and bulk of buildings. Local governments also regulate development through building codes which set detailed standards for construction.

This section summarizes goals, objectives, and policies of the City of Hayward and Alameda County general plans that are applicable to the ALUCP for HWD.

4.3.1 City of Hayward General Plan, Adopted 2002, Amended through July 15, 2003

The City of Hayward General Plan was updated in 2002. No significant changes to land use patterns were proposed as part of the General Plan; therefore, only limited cases will occur in which noise levels would exceed those considered normally acceptable for the intended use. The General Plan designates land uses in vicinity of airport as commercial uses, medium and high-density residential, hotel, commercial, and office uses within the Airport planning district. The predominant zoning in the vicinity of HWD remains residential.

The Airport is in the City of Hayward (City) Air Terminal (AT) zoning district. The AT District applies to a special area occupied primarily by aviation-oriented commercial, industrial, and public uses. Additionally, non-aviation industrial and commercial facilities are encouraged, provided that they do not pose a hazard to airport operations. As indicated in Figure 4-2, two AT subdistricts are located outside the boundary of HWD. These include the Air Terminal-Industrial Park (AT-IP) located west of the Airport, and the Air Terminal-Medium Density Residential (AT-RM) subdistrict north of the Skywest Public Golf Course.

The City of Hayward General Plan states the following airport land use compatibility related policies:

Guidelines for the Review of New Development:

A.1 Indoor noise level shall not exceed an Ldn of 45 dB in new housing units.
A.3 If the primary noise source is aircraft or a railroad, noise levels in new residential development exposed to an exterior Ldn of 60 dB or greater should be limited to a maximum instantaneous noise level in bedrooms at night of 50 dB(A). Maximum instantaneous noise levels in bedrooms during the daytime and in other rooms should not exceed 55 dB(A).

C. Locate noise-sensitive uses away from noise sources unless mitigation measures are included in development plans. Protect schools, hospitals, libraries, churches, convalescent homes, and other noise sensitive uses from noise levels exceeding those allowed in residential areas.

4.3.1.1 City of Hayward Noise Element Policies

The City of Hayward General Plan Noise Element states that “Other significant sources of noise in the community, including aircraft operations in the vicinity of the Hayward Executive Airport and at Oakland International Airport, railroad train operations along the Union Pacific Railroad lines, and the Bay Area Rapid Transit system, are expected to remain essentially as they are today.” Therefore, the same noise policies adopted in the 1986 City of Hayward General Plan continue to apply.

The 1986 City of Hayward Noise Element includes several policies that are related to aircraft and airport noise. These include the following relevant policies:

Policy: The City will seek to protect the public health, safety, and welfare against the adverse effects of excessive noise, consistent with the economic and environmental well-being of the City, and reaffirm desirability of quiet surroundings.

1. Provide educational material and assistance to the public regarding noise mitigation.

2. Maintain conformity of new development with the principles and standards for land use compatibility, noise exposure and noise mitigation contained in the Noise Element.

9. Continue to monitor the effectiveness of noise control programs at Hayward Executive Airport.

12. Encourage mitigation of noise through appropriate site planning, building orientation, interior layout and building materials.

4.3.2 City of Hayward Ordinance 91-16 Airport Noise Ordinance

The City of Hayward implemented Hayward Ordinance 91-16, the Airport Noise Ordinance in February 1, 1992, in an effort to reduce noise impacts from aircraft operations without impairing the ability of the airport to serve the aviation needs of the community and national air transportation system. (A copy of the ordinance is provided in Appendix H.)
The City maintains a system of four permanent noise monitors that records actual sound levels 24 hours per day. The ordinance specifies maximum noise levels associated with each monitoring location. The maximum noise limits identified in the ordinance, expressed measured as Single Event Noise Exposure Levels (SENELs), are summarized in Table 4-1 below:

<table>
<thead>
<tr>
<th>Monitoring Site</th>
<th>Site 1</th>
<th>Site 2</th>
<th>Site 3</th>
<th>Site 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Daytime Aircraft Noise Limit (7:00 AM to 11:00 PM)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Runway 28L/28R</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>Runway 10L/28R</td>
<td>98</td>
<td>98</td>
<td>100</td>
<td>99</td>
</tr>
<tr>
<td><strong>Nighttime Aircraft Noise Limit (11:01 PM to 6:59 AM)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Runway 28L/28R</td>
<td>95</td>
<td>95</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>Runway 10L/28R</td>
<td>95</td>
<td>95</td>
<td>97</td>
<td>96</td>
</tr>
</tbody>
</table>

Source: Hayward City Ordinance, Ordinance 91-16

Aircraft operators who exceed the specified noise levels may be cited, fined, or penalized through restricted access to and operating privileges at the airport. Exceptions are provided for Oakland International Airport operations, ambulance operators, Stage III aircraft, operations for safety or those directed by air traffic control, and military aircraft.

### 4.3.3 Eden Area Plan, Alameda County, California, Update March 2010

The Airport lies within the City of Hayward and is not subject to Alameda County General Plan policies. However, the following County policies are discussed since the community adjacent to the airport to the northwest is San Lorenzo, an unincorporated area within Alameda County. The unincorporated community of San Lorenzo is included as part of the Eden Area Plan prepared by Alameda County. The Plan is a statement of Alameda County’s conservation and development policy for the Eden area. Land use designations in the vicinity of the airport in unincorporated Alameda County are predominantly suburban and low-density residential, and limited neighborhood commercial along major arterials.

### 4.3.4 City of San Leandro General Plan, Adopted in 2002, Amended through 2015

The City of San Leandro General Plan was updated in 2002. No significant land use changes to land use patterns are proposed as part of the General Plan, and therefore there will only be limited cases where noise levels will exceed those considered normally acceptable for the intended use. The General Plan designates land uses in the vicinity of the airport as commercial uses, light industrial, and residential. The predominant zoning in the vicinity of HWD is industrial.
The City of San Leandro General Plan states the following airport land use compatibility related policies:

**3.10 Conversion of Non-Residential Land to Housing and Public Uses**
Encourage the development of new housing on underutilized commercial and industrial sites which meet the following criteria: …Sites which are not constrained by external environmental factors, including freeway, railroad, and airport noise.

**37.01 Monitoring of Airport Plans**
Actively and aggressively participate in forums and discussions regarding operations and expansion plans for Oakland International Airport. Seek local representation on task forces, commissions, and advisory boards established to guide airport policies and programs.

**37.02 Mitigation of Airport Noise**
Pursue mitigation of airport noise impacts to the fullest extent possible. Support and advocate for operational practices, changes to aircraft, new technologies, and physical improvements that would reduce the number of properties in San Leandro that are impacted by noise.

**37.06 Airport Safety Zones**
Regulate land uses within designated airport safety zones, height referral areas, and noise compatibility zones to minimize the possibility of future noise conflicts and accident hazards.

**4.4 Existing Airport Land Uses**
Existing Facilities at Hayward Executive Airport are shown in Figure 4-3, which is the HWD airport layout plan (ALP). The airport is located on a 520-acre site approximately 2 miles west of the City of Hayward’s business district.

**4.4.1 Airside Facilities**
Airside facilities include two runways, seven taxiways, and airport lighting (identification, runway and taxi, and approach lighting). Airside facilities at HWD also include airfield lighting, identification lighting, runway and taxiway lighting, visual approach lighting, runway end identification lighting, pavement markings, two helipads, and navigational aids.
4.4.2 Landside Facilities

Existing facilities at HWD include an air traffic control tower and general aviation facilities that include hangars with multiple units and fixed base operators (FBOs). Other uses include Skywest Golf Course, commercial uses along Hesperian Boulevard, a restaurant and industrial enterprise along West Winton Avenue, a fire station, and the California Air National Guard.

Landside facilities at HWD include approximately 131,400 square yards of aircraft parking apron, 219 city-owned enclosed T-hangars, 12 conventional hangars, approximately 224 parking spaces, fuel storage facilities totaling 84,000 gallons, an aircraft wash facility, a tenant maintenance shelter, an airport control tower, and administrative offices. A full range of aviation services are available at HWD, including aircraft rental, flight training, aircraft fueling, and aviation supplies.

4.4.3 Runways

The existing runway configuration at HWD includes two parallel runways aligned in an east/west pattern. The two runways are designated Runways 10L-28R and 10R-28L. Runway 10R-28L serves as the primary runway and is 5,694 feet long by 150 feet wide. Runway 10L-28R is 3,107 feet long by 75 wide and primarily serves local training and small propeller-driven aircraft operations. Both runways are constructed of asphalt.

4.4.3.1 Runway Approaches

Land uses northwest of Runway 10L-28R include a golf course within 0.2 mile, residential uses between 0.2 and 1.5 miles north of runway, and industrial and Bay beyond (see Figure 4-1). Land uses southeast of the runway include residential and mall within 0.5 miles of the runway, and predominantly medium and high residential beyond. Land uses around Runway 10R-28L are the same as those described for 10L-28R.

4.4.4 Taxiways

Seven entrance/exit taxiways are available for use along Runway 10R-28L. Five exit taxiways are available for use along Runway 10L-28R. Taxiway A is the full length parallel taxiway serving both runways and provides access to the general aviation facilities on the east and southwest locations of the Airport.

4.4.5 Typical Flight Procedures

The City of Hayward has established voluntary noise abatement operational procedures in an effort to reduce aircraft noise. The following briefly describes the noise abatement operational procedures and quiet flying techniques at HWD.
Departure Runway 28L. Jets, large twin-engine, and turboprop aircraft should depart this runway from the blast fence using the displaced threshold. Air traffic control (ATC) directs all instrument flight rule (IFR) departures to maintain runway heading until reaching 400 feet mean sea level (MSL). For departures to the west, aircraft should initiate a 270-degree left turn, crossing midfield to the west.

Departure Runway 28R. Only single-engine aircraft should depart from Runway 28R. Departing aircraft should turn right at, or before, the golf course. Runway 28R is closed and unlit when the tower is not in operation.

Departures 10L and 10R. All aircraft departing these runways should maintain runway heading until above Southland Mall (approximately one-half mile from the airport boundary). Runway 10L is closed when the tower is not in operation.

Touch-and-go and Stop-and-go procedures are prohibited between 9:00 p.m. and 7:00 a.m. Monday through Saturday. Touch-and-go and stop-and-go procedures are prohibited on both runways before 10:00 a.m. on Sundays and/or holidays.

In addition to the procedures listed above, HWD provides noise abatement procedures which recommends that pilots avoid overflying residential neighborhoods, gaining as much altitude as quickly as practical, and adjusting the propeller angle and engine speed to reduce engine and propeller noise (see also Section 4.6.3).

4.5 Proposed Airfield Facility Improvements

4.5.1 Airfield

Based on existing and forecast operational levels, additional airfield capacity is not needed, and no new runways are needed. The Master Plan proposes designation of the existing runway 28L entrance taxiway as part of the runway and using this pavement for departures to the northwest, extension of runway 28R 250 feet southwest, relocation of taxiway Z, construction of a new exit taxiway, installation of additional lighting and construction of a noise wall for Runway 10-L.

4.5.2 Building Area

It is estimated that HWD will require up to an additional 176,000 square feet of aircraft storage hangar space in the future. This includes conventional hangar areas, including executive hangars, and T-Hangar area. The Master Plan also proposes a single location for transient aircraft passengers at a public terminal building at the Airport. The estimated long-term need is an 11,800 square foot public terminal building.

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2 Airport facility improvements are described in greater detail in the Hayward Executive Airport Master Plan.
4.6 Airport Planning Documents

4.6.1 Hayward Executive Airport Master Plan

The Hayward Executive Airport Master Plan was adopted by the City of Hayward in April 2000. The plan includes an inventory of existing facilities and activity at the airport, forecasts of future airport activity, a discussion of aviation facility requirements, a presentation of development alternatives, a recommended airport master plan concept, a financial plan, and environmental reconnaissance.

4.6.2 Strategic Business Plan for Hayward Executive Airport

The Strategic Business Plan for Hayward Executive Airport was completed in 1997. The plan was developed to identify economic development opportunities for the City of Hayward at the airport and to improve the financial position of the airport and its businesses and industries. The plan recommended updating the Master Plan, evaluating the impacts of the 1992 Performance-Base Noise Ordinance, preparing a marketing plan for the airport, expanding aviation development, expanding non-aviation development, attracting additional general aviation services, developing a general aviation terminal complex, and preparing a lease review and evaluation.

4.6.3 FAR Part 150 Study

The City of Hayward developed and adopted a FAR Part 150 Study in 1988, establishing procedures for airport noise compatibility planning. The plan recommended establishing departure and approach procedures, developing a program to provide pilot and community awareness, constructing a noise berm at the runway 28L end, relocating the Runway 28L run-up area, providing additional exit taxiways, and acquiring an Automated Surface Observation System (ASOS). These recommendations have been implemented.

4.7 Existing and Future Airport Activity

The Hayward Executive Airport Master Plan outlines existing and forecasted activity at the airport. General aviation airports typically measure airport activity using the number of based aircraft and total annual operations (takeoffs and landings). Since 1989, general aviation operations have accounted for more than 98 percent of all operations at the airport.

4.7.1 Fleet Mix

The existing based aircraft fleet mix is composed of single-engine piston aircraft, but also includes multi-engine piston, turboprop, turbojet, and helicopter aircraft. Table 4-2 presents the existing and forecasted fleet mix for based aircraft at HWD as published in the Master Plan.
### TABLE 4-2
EXISTING AND FORECAST BASED FLEET MIX

<table>
<thead>
<tr>
<th>Aircraft Type</th>
<th>Percentage of Based Fleet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1998</td>
</tr>
<tr>
<td>Single Engine</td>
<td>85.8%</td>
</tr>
<tr>
<td>Piston</td>
<td></td>
</tr>
<tr>
<td>Multi-Engine Piston</td>
<td>9.0%</td>
</tr>
<tr>
<td>Piston</td>
<td></td>
</tr>
<tr>
<td>Turboprop</td>
<td>2.4%</td>
</tr>
<tr>
<td>Jet</td>
<td>1.6%</td>
</tr>
<tr>
<td>Helicopter</td>
<td>1.2%</td>
</tr>
</tbody>
</table>

Source: Coffman Associates, Inc.

### 4.7.2 Operations

Projections of aircraft operations at HWD are based on the number of operations per based aircraft and historical data. Historically, based operations have made up 50 percent of total annual operations or about 300 to 400 operations per based aircraft. After increasing between 1984 and 1989, total based aircraft at HWD gradually declined to approximately 423 aircraft in 1998. The number of based aircraft is estimated to grow by 1.4 percent annually through 2010 and then by 1.1 percent annually to 2020 (see Table 4-3). The number of based aircraft in 2005 was 477.

### TABLE 4-3
PROJECTED BASED AIRCRAFT BY AIRCRAFT TYPE: 1998 – 2025

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Single Engine</th>
<th>Multi-Engine</th>
<th>Turboprop</th>
<th>Jet</th>
<th>Helicopter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>424</td>
<td>363</td>
<td>38</td>
<td>10</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>2005</td>
<td>477</td>
<td>387</td>
<td>42</td>
<td>12</td>
<td>17</td>
<td>19</td>
</tr>
<tr>
<td>2010</td>
<td>475</td>
<td>401</td>
<td>44</td>
<td>14</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>2015</td>
<td>497</td>
<td>413</td>
<td>47</td>
<td>18</td>
<td>11</td>
<td>8</td>
</tr>
<tr>
<td>2020</td>
<td>518</td>
<td>426</td>
<td>50</td>
<td>20</td>
<td>13</td>
<td>9</td>
</tr>
<tr>
<td>2025</td>
<td>544</td>
<td>440</td>
<td>54</td>
<td>23</td>
<td>16</td>
<td>11</td>
</tr>
</tbody>
</table>

Source: Coffman Associates, Inc.

The projected annual operations presented in Table 4-3 represent a future scenario between increasing operations per based aircraft and static operations per based aircraft. This planning forecast projects annual operations growing at an annual rate of 1.7 percent. It is likely that based aircraft levels will fluctuate above and below the levels provided in the planning forecast.
4.7.3 Runway Use

Most of the departures at HWD are to the west on either Runway 28L or Runway 28R. Table 4-4 provides a summary of runway use at HWD.

<table>
<thead>
<tr>
<th>Runway</th>
<th>Single Engine</th>
<th>Multi-Engine</th>
<th>Turboprop</th>
<th>Business Jet</th>
</tr>
</thead>
<tbody>
<tr>
<td>10L</td>
<td>2.5%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>10R</td>
<td>2.5%</td>
<td>5.0%</td>
<td>5.0%</td>
<td>5.0%</td>
</tr>
<tr>
<td>28L</td>
<td>30.0%</td>
<td>55.0%</td>
<td>95.0%</td>
<td>95.0%</td>
</tr>
<tr>
<td>28R</td>
<td>65.0%</td>
<td>40.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

Source: FAA, Coffman Associates, Inc.
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CHAPTER 5
References


City of Hayward, *City of Hayward General Plan*, adopted July 2002.


City of San Leandro, *City of San Leandro General Plan*, 2002.


Horvath, C. October 31, 2006. Personal communication (email) from Alameda County regarding heliport locations transmitted to L. Harmon, ESA. Sacramento, California.

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Appendices
Appendix A
California Airport Land Use
Commission Laws – Public
Utility Code Section 21670
APPENDIX A
California Airport Land Use Commission Laws
Public Utility Code Section 21670

A.1 Creation; Membership; Selection

21670
(a) The Legislature hereby finds and declares that:

(1) It is in the public interest to provide for the orderly development of each public use airport in this state and the area surrounding these airports so as to promote the overall goals and objectives of the California airport noise standards adopted pursuant to Section 21669 and to prevent the creation of new noise and safety problems.

(2) It is the purpose of this article to protect public health, safety, and welfare by ensuring the orderly expansion of airports and the adoption of land use measures that minimize the public's exposure to excessive noise and safety hazards within areas around public airports to the extent that these areas are not already devoted to incompatible uses.

(b) In order to achieve the purposes of this article, every county in which there is located an airport which is served by a scheduled airline shall establish an airport land use commission. Every county, in which there is located an airport which is not served by a scheduled airline, but is operated for the benefit of the general public, shall establish an airport land use commission, except that the board of supervisors of the county may, after consultation with the appropriate airport operators and affected local entities and after a public hearing, adopt a resolution finding that there are no noise, public safety, or land use issues affecting any airport in the county which require the creation of a commission and declaring the county exempt from that requirement. The board shall, in this event, transmit a copy of the resolution to the Director of Transportation. For purposes of this section, “commission” means an airport land use commission. Each commission shall consist of seven members to be selected as follows:

(1) Two representing the cities in the county, appointed by a city selection committee comprised of the mayors of all the cities within that county, except that if there are any cities contiguous or adjacent to the qualifying airport, at least one representative shall be appointed there from. If there are no cities within a county, the number of representatives provided for by paragraphs (2) and (3) shall each be increased by one.

(2) Two representing the county, appointed by the board of supervisors.
(3) Two having expertise in aviation, appointed by a selection committee comprised of the managers of all of the public airports within that county.

(4) One representing the general public, appointed by the other six members of the commission.

c) Public officers, whether elected or appointed, may be appointed and serve as members of the commission during their terms of public office.

d) Each member shall promptly appoint a single proxy to represent him or her in commission affairs and to vote on all matters when the member is not in attendance. The proxy shall be designated in a signed written instrument which shall be kept on file at the commission offices, and the proxy shall serve at the pleasure of the appointing member. A vacancy in the office of proxy shall be filled promptly by appointment of a new proxy.

e) A person having an “expertise in aviation” means a person who, by way of education, training, business, experience, vocation, or avocation has acquired and possesses particular knowledge of, and familiarity with, the function, operation, and role of airports, or is an elected official of a local agency which owns or operates an airport.

f) It is the intent of the Legislature to clarify that, for the purposes of this article, special districts, school districts, and community college districts are included among the local agencies that are subject to airport land use laws and other requirements of this article.

A.2 Action by Designated Body Instead of Commission

21670.1

(a) Notwithstanding any other provision of this article, if the board of supervisors and the city selection committee of mayors in the county each makes a determination by a majority vote that proper land use planning can be accomplished through the actions of an appropriately designated body, then the body so designated shall assume the planning responsibilities of an airport land use commission as provided for in this article, and a commission need not be formed in that county.

(b) A body designated pursuant to subdivision (a) which does not include among its membership at least two members having an expertise in aviation, as defined in subdivision (e) of Section 21670, shall, when acting in the capacity of an airport land use commission, be augmented so that that body, as augmented, will have at least two members having that expertise. The commission shall be constituted pursuant to this section on and after March 1, 1988.

(c) (1) Notwithstanding subdivisions (a) and (b), and subdivision (b) of Section 21670, if the board of supervisors of a county and each affected city in that county each makes a determination that proper land use planning pursuant to this article can be accomplished pursuant to this subdivision, then a commission need not be formed in that county.

(2) If the board of supervisors of a county and each affected city makes a determination that proper land use planning may be accomplished and a commission is not formed pursuant to paragraph (1) of this subdivision, that county and the appropriate affected cities having jurisdiction over an airport, subject to the review and approval by the Division of Aeronautics of the department, shall do all of the following:
(A) Adopt processes for the preparation, adoption, and amendment of the comprehensive airport land use plan for each airport that is served by a scheduled airline or operated for the benefit of the general public.

(B) Adopt processes for the notification of the general public, landowners, interested groups, and other public agencies regarding the preparation, adoption, and amendment of the comprehensive airport land use plans.

(C) Adopt processes for the mediation of disputes arising from the preparation, adoption, and amendment of the comprehensive airport land use plans.

(D) Adopt processes for the amendment of general and specific plans to be consistent with the comprehensive airport land use plans.

(E) Designate the agency that shall be responsible of the preparation, adoption, and amendment of each comprehensive airport land use plan.

(3) The Division of Aeronautics of the department shall review the processes adopted pursuant to paragraph (2), and shall approve the processes if the division determines that the processes are consistent with the procedure required by this article and will do all of the following:

(A) Result in the preparation, adoption, and implementation of plans within a reasonable amount of time.

(B) Rely on the height, use, noise, safety, and density criteria that are compatible with airport operations, as established by this article, and referred to as the Airport Land Use Planning Handbook, published by the division, and any applicable federal aviation regulations, including, but not limited to, Part 77 (commencing with Section 77.1) of Title 14 of the Code of Federal Regulations.

(C) Provide adequate opportunities for notice to, review of, and comment by the general public, landowners, interested groups, and other public agencies.

(4) If the county does not comply with the requirements of paragraph (2) within 120 days, then the plan and amendments shall not be considered adopted pursuant to this article and a commission shall be established within 90 days of the determination of noncompliance by the division and a plan shall be adopted pursuant to this article within 90 days of the establishment of the commission.

(d) A commission need not be formed in a county that has contracted for the preparation of comprehensive airport land use plans with the Division of Aeronautics under the California Aids to Airport Program (Title 21 (commencing with Section 4050) of the California Code of Regulations), Project Ker-VAR 90-1, and that submits all of the following information to the Division of Aeronautics for review and comment that the county and the cities affected by the airports within the county, as defined by the plans:

(1) Agree to adopt and implement the comprehensive airport plans that have been developed under contract.

(2) Incorporated the height, use, noise, safety, and density criteria that are compatible with airport operations as established by this article, and referred to as the Airport Land Use Planning Handbook, published by the division, and any applicable federal
aviation regulations, including, but not limited to, Part 77 (commencing with Section 77.1) of Title 14 of the Code of Federal Regulations as part of the general and specific plans for the county and for each affected city.

(3) If the county does not comply with this subdivision on or before May 1, 1995, then a commission shall be established in accordance with this article.

(e) (1) A commission need not be formed in a county if all of the following conditions are met:

(A) The county has only one public use airport that is owned by a city.

(B) (i) The county and the affected city adopt the elements in paragraph (2) of subdivision (d), as part of their general and specific plans for the county and the affected city.

(ii) The general and specific plans shall be submitted, upon adoption, to the Division of Aeronautics. If the county and the affected city do not submit the elements specified in paragraph (2) of subdivision (d), on or before May 1, 1996, then a commission shall be established in accordance with this article.

A.3 Application to Counties Having Over 4 Million Population

21670.2

(a) Sections 21670 and 21670.1 do not apply to the County of Los Angeles. In that county, the county regional planning commission has the responsibility for coordinating the airport planning of public agencies within the county. In instances where impasses result relative to this planning, an appeal may be made to the county regional planning commission by any public agency involved. The action taken by the county regional planning commission on such an appeal may be overruled by a four-fifths vote of the governing body of a public agency whose planning led to the appeal.

(b) By January 1, 1992, the county regional planning commission shall adopt the comprehensive land use plans required pursuant to Section 21675.

(c) Sections 21675.1, 21675.2, and 21679.5 do not apply to the County of Los Angeles until January 1, 1992. If the comprehensive land use plans required pursuant to Section 21675 are not adopted by the county regional planning commission by January 1, 1992, Sections 21675.1 and 21675.2 shall apply to the County of Los Angeles until the plans are adopted.

21670.3

(a) Sections 21670 and 21670.1 do not apply to the County of San Diego. In that county, San Diego County Regional Airport Authority, as established pursuant to Section 170002, is responsible for coordinating the airport planning of public agencies within the county and shall, on or before June 30, 2005, after reviewing the existing airport land use compatibility plan adopted pursuant to Section 21675, adopt an airport land use compatibility plan.
(b) Any airport land use compatibility plan developed pursuant to Section 21675 and adopted pursuant to Section 21675.1 by the San Diego Association of Governments shall remain in effect until June 30, 2005, unless the San Diego County Regional Airport Authority adopts a plan prior to that date pursuant to subdivision (a).

A.4 Intercounty Airports

21670.4

(a) As used in this section, “intercounty airport” means any airport bisected by a county line through its runways, runway protection zones, inner safety zones, inner turning zones, outer safety zones, or sideline safety zones, as defined by the department’s Airport Land Use Plan handbook and referenced in the comprehensive land use plan formulated under Section 21675.

(b) It is the purpose of this section to provide the opportunity to establish a separate airport land use commission so that an intercounty airport may be served by a single airport land use planning agency, rather than having to look separately to the airport land use commissions of the affected counties.

(c) In addition to the airport land use commissions created under Section 21670 or the alternatives established under Section 21670.1, for their respective counties, the boards of supervisors and city selection committees for the affected counties, by independent majority vote of each county’s two delegations, for any intercounty airport, may do either of the following:

(1) Establish a single separate airport land use commission for that airport. That commission shall consist of seven members to be selected as follows:

(A) One representing the cities in each of the counties, appointed by that county’s city selection committee.

(B) One representing each of the counties, appointed by the board of supervisors of each county.

(C) One from each county having expertise in aviation, appointed by a selection committee comprised of the managers of all the public airports within that county.

(D) One representing the general public, appointed by the other six members of the commission.

(2) In accordance with subdivision (a) or (b) of Section 21670.1, designate an existing appropriate entity as that airport’s land use commission.

A.5 Airport Owned by a City, District, or County

21671

In any county where there is an airport operated for the general public which is owned by a city or district in another county or by another county, one of the representatives provided by paragraph (1) of subdivision (b) of Section 21670 shall be appointed by the city selection
committee of mayors of the cities of the county in which the owner of that airport is located, and one of the representatives provided by paragraph (2) of subdivision (b) of Section 21670 shall be appointed by the board of supervisors of the county in which the owner of that airport is located.

A.6 Term of Office

21671.5

(a) Except for the terms of office of the members of the first commission, the term of office of each member shall be four years and until the appointment and qualification of his or her successor. The members of the first commission shall classify themselves by lot so that the term of office of one member is one year, of two members is two years, of two members is three years, and of two members is four years. The body which originally appointed a member whose term has expired shall appoint his or her successor for a full term of four years. Any member may be removed at any time and without cause by the body appointing that member. The expiration date of the term of office of each member shall be the first Monday in May in the year in which that member’s term is to expire. Any vacancy in the membership of the commission shall be filled for the unexpired term by appointment by the body which originally appointed the member whose office has become vacant. The chairperson of the commission shall be selected by the members thereof.

(b) Compensation, if any, shall be determined by the board of supervisors.

(c) Staff assistance, including the mailing of notices and the keeping of minutes and necessary quarters, equipment, and supplies shall be provided by the county. The usual and necessary operating expenses of the commission shall be a county charge.

(d) Notwithstanding any other provisions of this article, the commission shall not employ any personnel either as employees or independent contractors without the prior approval of the board of supervisors.

(e) The commission shall meet at the call of the commission chairperson or at the request of the majority of the commission members. A majority of the commission members shall constitute a quorum for the transaction of business. No action shall be taken by the commission except by the recorded vote of a majority of the full membership.

(f) The commission may establish a schedule of fees necessary to comply with this article. Those fees shall be charged to the proponents of actions, regulations, or permits, shall not exceed the estimated reasonable cost of providing the service, and shall be imposed pursuant to Section 66016 of the Government Code. Except as provided in subdivision (g), after June 30, 1991, a commission which has not adopted the comprehensive land use plan required by Section 21675 shall not charge fees pursuant to this subdivision until the commission adopts the plan.

(g) In any county which has undertaken by contract or otherwise completed land use plans for at least one-half of all public use airports in the county, the commission may continue to charge fees necessary to comply with this article until June 30, 1992, and, if the land use plans are complete by that date, may continue charging fees after June 30, 1992. If the land use plans are not complete by June 30, 1992, the commission shall not charge fees pursuant to subdivision (f) until the commission adopts the land use plans.
A.7 Rules and Regulations

21672
Each commission shall adopt rules and regulations with respect to the temporary disqualification of its members from participating in the review or adoption of a proposal because of conflict of interest and with respect to appointment of substitute members in such cases.

A.8 Initiation of Proceedings for Creation by Owner of Airport

21673
In any county not having a commission or a body designated to carry out the responsibilities of a commission, any owner of a public airport may initiate proceedings for the creation of a commission by presenting a request to the board of supervisors that a commission be created and showing the need therefore to the satisfaction of the board of supervisors.

A.9 Powers and Duties

21674
The commission has the following powers and duties, subject to the limitations upon its jurisdiction set forth in Section 21676:

(a) To assist local agencies in ensuring compatible land uses in the vicinity of all new airports and in the vicinity of existing airports to the extent that the land in the vicinity of those airports is not already devoted to incompatible uses.

(b) To coordinate planning at the state, regional, and local levels so as to provide for the orderly development of air transportation, while at the same time protecting the public health, safety, and welfare.

(c) To prepare and adopt an airport land use plan pursuant to Section 21675.

(d) To review the plans, regulations, and other actions of local agencies and airport operators pursuant to Section 21676.

(e) The powers of the commission shall in no way be construed to give the commission jurisdiction over the operation of any airport.

(f) In order to carry out its responsibilities, the commission may adopt rules and regulations consistent with this article.
A.10 Training of Airport Land Use Commission Staff

21674.5

(a) The Department of Transportation shall develop and implement a program or programs to assist in the training and development of the staff of airport land use commissions, after consulting with airport land use commissions, cities, counties, and other appropriate public entities.

(b) The training and development program or programs are intended to assist the staff of airport land use commissions in addressing high priority needs, and may include, but need not be limited to, the following:

1. The establishment of a process for the development and adoption of comprehensive land use plans.

2. The development of criteria for determining the airport influence area.

3. The identification of essential elements which should be included in the comprehensive plans.

4. Appropriate criteria and procedures for reviewing proposed developments and determining whether proposed developments are compatible with the airport use.

5. Any other organizational, operational, procedural, or technical responsibilities and functions which the department determines to be appropriate to provide to commission staff and for which it determines there is a need for staff training or development.

(c) The department may provide training and development programs for airport land use commission staff pursuant to this section by any means it deems appropriate. Those programs may be presented in any of the following ways:

1. By offering formal courses or training programs.

2. By sponsoring or assisting in the organization and sponsorship of conferences, seminars, or other similar events.

3. By producing and making available written information.

4. Any other feasible method of providing information and assisting in the training and development of airport land use commission staff.

A.11 Airport Land Use Planning Handbook

21674.7

(a) An airport land use commission that formulates, adopts or amends a comprehensive airport land use plan shall be guided by information prepared and updated pursuant to Section 21674.5 and referred to as the Airport Land Use Planning Handbook published by the Division of Aeronautics of the Department of Transportation.
(b) It is the intent of the Legislature to discourage incompatible land uses near existing airports. Therefore, prior to granting permits for the renovation or remodeling of existing building, building, structure, or facility, and before the construction of a new building, it is the intent of the Legislature that local agencies shall be guided by the height, use, noise, safety, and density criteria that are compatible with airport operations, as established by this article, and referred to as the Airport Land Use Planning Handbook, published by the division, and any applicable federal aviation regulations, including, but not limited to, Part 77 (commencing with Section 77.1) of Title 14 of the Code of Federal Regulations, to the extent that the criteria has been incorporated into the plan prepared by a commission pursuant to Section 21675. This subdivision does not limit the jurisdiction of a commission as established by this article. This subdivision does not limit the authority of local agencies to overrule commission actions or recommendations pursuant to Sections 21676, 21676.5, or 21677.

A.12 Land Use Plan

21675

(a) Each commission shall formulate a comprehensive land use plan that will provide for the orderly growth of each public airport and the area surrounding the airport within the jurisdiction of the commission, and will safeguard the general welfare of the inhabitants within the vicinity of the airport and the public in general. The commission plan shall include and shall be based on a long-range master plan or an airport layout plan, as determined by the Division of Aeronautics of the Department of Transportation, that reflects the anticipated growth of the airport during at least the next 20 years. In formulating a land use plan, the commission may develop height restrictions on buildings, specify use of land, and determine building standards, including soundproofing adjacent to airports, within the planning area. The comprehensive land use plan shall be reviewed as often as necessary in order to accomplish its purposes, but shall not be amended more than once in any calendar year.

(b) The commission shall include, within its airport land use compatibility plan formulated pursuant to subdivision (a), the area within the jurisdiction of the commission surrounding any military airport for all of the purposes specified in subdivision (a). The airport land use compatibility plan shall be consistent with the safety and noise standards in the Air Installation Compatible Use Zone prepared for that military airport. This subdivision does not give the commission any jurisdiction or authority over the territory or operations of any military airport.

(c) The airport influence area shall be established by the commission after hearing and consultation with the involved agencies.

(d) The commission shall submit to the Division of Aeronautics of the department one copy of the land use compatibility plan and each amendment to the plan.

(e) If an airport land use compatibility plan does not include the matters required to be included pursuant to this article, the Division of Aeronautics of the department shall notify the commission responsible for the plan.
A.13 Adoption of Land Use Plan

21675.1

(a) By June 30, 1991, each commission shall adopt the airport land use compatibility plan required pursuant to Section 21675, except that any county that has undertaken by contract or otherwise completed land use compatibility plans for at least one-half of all public use airports in the county, shall adopt that plan on or before June 30, 1992.

(b) Until a commission adopts an airport land use compatibility plan, a city or county shall first submit all actions, regulations, and permits within the vicinity of a public airport to the commission for review and approval. Before the commission approves or disapproves any actions, regulations, or permits, the commission shall give public notice in the same manner as the city or county is required to give for those actions, regulations, or permits. As used in this section, “vicinity” means land which will be included or reasonably could be included within the airport land use compatibility plan. If the commission has not designated an airport influence area for the airport land use compatibility plan, then “vicinity” means land within two miles of the boundary of a public airport.

(c) The commission may approve an action, regulation, or permit if it finds, based on substantial evidence in the record, all of the following:

(1) The commission is making substantial progress toward the completion of the plan.

(2) There is a reasonable probability that the action, regulation, or permit will be consistent with the plan being prepared by the commission.

(3) There is little or no probability of substantial detriment to or interference with the future adopted plan if the action, regulation, or permit is ultimately inconsistent with the airport land use compatibility plan.

(d) If the commission disapproves an action, regulation, or permit, the commission shall notify the city or county. The city or county may overrule the commission, by a two-thirds vote of its governing body, if it makes specific findings that the proposed action, regulation, or permit is consistent with the purposes of this article, as stated in Section 21670.

(e) If a city or county overrules the commission pursuant to subdivision (d), that action shall not relieve the city or county from further compliance with this article after the commission adopts the airport land use compatibility plan.

(f) If a city or county overrules the commission pursuant to subdivision (d) with respect to a publicly owned airport that the city or county does not operate, the operator of the airport is not liable for damages to property or personal injury resulting from the city’s or county’s decision to proceed with the action, regulation, or permit.

(g) A commission may adopt rules and regulations which exempt any ministerial permit for single-family dwellings from the requirements of subdivision (b) if it makes the findings required pursuant to subdivision (c) for the proposed rules and regulations, except that the rules and regulations may not exempt either of the following:

(1) More than two single-family dwellings by the same applicant within a subdivision prior to June 30, 1991.

(2) Single-family dwellings in a subdivision where 25 percent or more of the parcels are undeveloped.
A.14 Approval or Disapproval of Actions, Regulations, or Permits

21675.2

(a) If a commission fails to act to approve or disapprove any actions, regulations, or permits within 60 days of receiving the request pursuant to Section 21675.1, the applicant or his or her representative may file an action pursuant to Section 1094.5 of the Code of Civil Procedure to compel the commission to act, and the court shall give the proceedings preference over all other actions or proceedings, except previously filed pending matters of the same character.

(b) The action, regulation, or permit shall be deemed approved only if the public notice required by this subdivision has occurred. If the applicant has provided seven days advance notice to the commission of the intent to provide public notice pursuant to this subdivision, then, not earlier than the date of the expiration of the time limit established by Section 21675.1, an applicant may provide the required public notice. If the applicant chooses to provide public notice, that notice shall include a description of the proposed action, regulation, or permit substantially similar to the descriptions which are commonly used in public notices by the commission, the location of any proposed development, the application number, the name and address of the commission, and a statement that the action, regulation, or permit shall be deemed approved if the commission has not acted within 60 days. If the applicant has provided the public notice specified in this subdivision, the time limit for action by the commission shall be extended to 60 days after the public notice is provided. If the applicant provides notice pursuant to this section, the commission shall refund to the applicant any fees which were collected for providing notice and which were not used for that purpose.

(c) Failure of an applicant to submit complete or adequate information pursuant to Sections 65943 to 65946, inclusive, of the Government Code, may constitute grounds for disapproval of actions, regulations, or permits.

(d) Nothing in this section diminishes the commission’s legal responsibility to provide, where applicable, public notice and hearing before acting on an action, regulation, or permit.

A.15 Review of Local General Plans

21676

(a) Each local agency whose general plan includes areas covered by an airport land use compatibility plan shall, by July 1, 1983, submit a copy of its plan or specific plans to the airport land use commission. The commission shall determine by August 31, 1983, whether the plan or plans are consistent or inconsistent with the airport land use compatibility plan. If the plan or plans are inconsistent with the airports land use compatibility plan, the local agency shall be notified and that local agency shall have another hearing to reconsider its airport land use compatibility plans. The local agency may propose to overrule the commission after such hearing by a two-thirds vote of its governing body if it makes specific findings that the proposed action is consistent with the purposes of this article stated in Section 21670. At least 45 days prior to the decision to overrule the commission, the local agency governing body shall provide the commission and the division a copy of the proposed decisions and findings. The commission and the
division may provide comments to the local agency governing body within 30 days of receiving the proposed decision and findings. If the commission or the division’s comments are not available within this time limit, the local agency governing body may act without them. The comments by the division or the commission are advisory to the local agency governing body. The local agency governing body shall include comments from the commission and the division in the final record of any final decision to overrule the commission, which may only be adopted by a two-thirds vote of the governing body.

(b) Prior to the amendment of a general plan or specific plan, or the adoption or approval of a zoning ordinance or building regulation within the planning boundary established by the airport land use commission pursuant to Section 21675, the local agency shall first refer the proposed action to the commission. If the commission determines that the proposed action is inconsistent with the commission’s plan, the referring agency shall be notified. The local agency may, after a public hearing, overrule the commission by a two-thirds vote of its governing body if it makes specific findings that the proposed action is consistent with the purposes of this article stated in Section 21670. At least 45 days prior to the decision to overrule the commission, the local agency governing body shall provide the commission and the division a copy of the proposed decisions and findings. The commission and the division may provide comments to the local agency governing body within 30 days of receiving the proposed decision and findings. If the commission or the division’s comments are not available within this time limit, the local agency governing body may act without them. The comments by the division or the commission are advisory to the local agency governing body. The local agency governing body shall include comments from the commission and the division in the final record of any final decision to overrule the commission, which may only be adopted by a two-thirds vote of the governing body.

(c) Each public agency owning any airport within the boundaries of an airport land use compatibility plan shall, prior to modification of its airport master plan, refer such proposed change to the airport land use commission. If the commission determines that the proposed action is inconsistent with the commission’s plan, the referring agency shall be notified. The public agency may, after a public hearing, overrule the commission by a two-thirds vote of its governing body if it makes specific findings that the proposed action is consistent with the purposes of this article stated in Section 21670. At least 45 days prior to the decision to overrule the commission, the local agency governing body shall provide the commission and the division a copy of the proposed decisions and findings. The commission and the division may provide comments to the local agency governing body within 30 days of receiving the proposed decision and findings. If the commission or the division’s comments are not available within this time limit, the local agency governing body may act without them. The comments by the division or the commission are advisory to the local agency governing body. The local agency governing body shall include comments from the commission and the division in the final record of any final decision to overrule the commission, which may only be adopted by a two-thirds vote of the governing body.

(d) Each commission determination pursuant to subdivision (b) or (c) shall be made within 60 days from the date of referral of the proposed action. If a commission fails to make the determination within that period, the proposed action shall be deemed consistent with the airport land use compatibility plan.
A.16 Review of Local Plans

21676.5

(a) If the commission finds that a local agency has not revised its general plan or specific plan or overruled the commission by a two-thirds vote of its governing body after making specific findings that the proposed action is consistent with the purposes of this article as stated in Section 21670, the commission may require that the local agency submit all subsequent actions, regulations, and permits to the commission for review until its general plan or specific plan is revised or the specific findings are made. If, in the determination of the commission, an action, regulation, or permit of the local agency is inconsistent with the airport land use compatibility plan, the local agency shall be notified and that local agency shall hold a hearing to reconsider its plan. The local agency may propose to overrule the commission after the hearing by a two-thirds vote of its governing body if it makes specific findings that the proposed action is consistent with the purposes of this article as stated in Section 21670. At least 45 days prior to the decision to overrule the commission, the local agency governing body shall provide the commission and the division a copy of the proposed decisions and findings. The commission and the division may provide comments to the local agency governing body within 30 days of receiving the proposed decision and findings. If the commission or the division’s comments are not available within this time limit, the local agency governing body may act without them. The comments by the division or the commission are advisory to the local agency governing body. The local agency governing body shall include comments from the commission and the division in the final record of any final decision to overrule the commission, which may only be adopted by a two-thirds vote of the governing body.

(b) Whenever the local agency has revised its general plan or specific plan or has overruled the commission pursuant to subdivision (a), the proposed action of the local agency shall not be subject to further commission review, unless the commission and the local agency agree that individual projects shall be reviewed by the commission.

A.17 Marin County Override Provisions

21677

Notwithstanding Section 21676, any public agency in the County of Marin may overrule the Marin County Airport Land Use Commission by a majority vote of its governing body. At least 45 days prior to the decision to overrule the commission, the local agency governing body shall provide the commission and the division a copy of the proposed decisions and findings. The commission and the division may provide comments to the local agency governing body within 30 days of receiving the proposed decision and findings. If the commission or the division’s comments are not available within this time limit, the local agency governing body may act without them. The comments by the division or the commission are advisory to the local agency governing body. The local agency governing body shall include comments from the commission and the division in the final record of any final decision to overrule the commission, which may only be adopted by a two-thirds vote of the governing body.
A.18 Airport Owner’s Immunity

21678

With respect to a publicly owned airport that a public agency does not operate, if the public agency pursuant to Section 21676 or 21676.5 overrides a commission’s action or recommendation, the operator of the airport shall be immune from liability for damages to property or personal injury caused by or resulting directly or indirectly from the public agency’s decision to override the commission’s action or recommendation.

A.19 Court Review

21679

(a) In any county in which there is no airport land use commission or other body designated to assume the responsibilities of an airport land use commission, or in which the commission or other designated body has not adopted an airport land use compatibility plan, an interested party may initiate proceedings in a court of competent jurisdiction to postpone the effective date of a zoning change, a zoning variance, the issuance of a permit, or the adoption of a regulation by a local agency, which directly affects the use of land within one mile of the boundary of a public airport within the county.

(b) The court may issue an injunction which postpones the effective date of the zoning change, zoning variance, permit, or regulation until the governing body of the local agency which took the action does one of the following:

(1) In the case of an action which is a legislative act, adopts a resolution declaring that the proposed action is consistent with the purposes of this article stated in Section 21670.

(2) In the case of an action which is not a legislative act, adopts a resolution making findings based on substantial evidence in the record that the proposed action is consistent with the purposes of this article stated in Section 21670.

(3) Rescinds the action.

(4) Amends its action to make it consistent with the purposes of this article stated in Section 21670, and complies with either paragraph (1) or (2) of this subdivision, whichever is applicable.

(c) The court shall not issue an injunction pursuant to subdivision (b) if the local agency which took the action demonstrates that the general plan and any applicable specific plan of the agency accomplishes the purposes of an airport land use compatibility plan as provided in Section 21675.

(d) An action brought pursuant to subdivision (a) shall be commenced within 30 days of the decision or within the appropriate time periods set by Section 21167 of the Public Resources Code, whichever is longer.

(e) If the governing body of the local agency adopts a resolution pursuant to subdivision (b) with respect to a publicly owned airport that the local agency does not operate, the operator of the airport shall be immune from liability for damages to property or personal injury from the local agency’s decision to proceed with the zoning change, zoning variance, permit, or regulation.
(f) As used in this section, “interested party” means any owner of land within two miles of the boundary of the airport or any organization with a demonstrated interest in airport safety and efficiency.

A.20 Deferral of Court Review

21679.5

(a) Until June 30, 1991, no action pursuant to Section 21679 to postpone the effective date of a zoning change, a zoning variance, the issuance of a permit, or the adoption of a regulation by a local agency, directly affecting the use of land within one mile of the boundary of a public airport, shall be commenced in any county in which the commission or other designated body has not adopted an airport land use compatibility plan, but is making substantial progress toward the completion of the airport land use compatibility plan.

(b) If a commission has been prevented from adopting the airport land use compatibility plan by June 30, 1991, or if the adopted airport land use compatibility plan could not become effective, because of a lawsuit involving the adoption of the airport land use compatibility plan, the June 30, 1991, date in subdivision (a) shall be extended by the period of time during which the lawsuit was pending in a court of competent jurisdiction.

(c) Any action pursuant to Section 21679 commenced prior to January 1, 1990, in a county in which the commission or other designated body has not adopted an airport land use compatibility plan, but is making substantial progress toward the completion of the airport land use compatibility plan, which has not proceeded to final judgment, shall be held in abeyance until June 30, 1991. If the commission or other designated body adopts an airport land use compatibility plan on or before June 30, 1991, the action shall be dismissed. If the commission or other designated body does not adopt an airport land use compatibility plan on or before June 30, 1991, the plaintiff or plaintiffs may proceed with the action.

(d) An action to postpone the effective date of a zoning change, a zoning variance, the issuance of a permit, or the adoption of a regulation by a local agency, directly affecting the use of land within one mile of the boundary of a public airport for which an airport land use compatibility plan has not been adopted by June 30, 1991, shall be commenced within 30 days of June 30, 1991, or within 30 days of the decision by the local agency, or within the appropriate time periods set by Section 21167 of the Public Resources Code, whichever date is later.
Appendix B
Airport Land Use Compatibility Concepts
APPENDIX B
Airport Land Use Compatibility Concepts

Introduction

The information provided in this appendix addresses concepts and rationale used during the development of the compatibility policies and figures presented in Chapters 2 and 3 of this CLUP. The foundation for these policies and the concepts behind them derive from the *California Airport Land Use Compatibility Handbook* (Caltrans, January 2002).

As outlined in the *Handbook* and this CLUP, the policies regarding airport land use compatibility are focused into four concepts categories:

1. **Noise** – As defined by cumulative noise exposure contours depicting noise from aircraft operations near an airport.

2. **Safety** – This addresses minimizing risks of aircraft accidents beyond the runway environment, and their potential impacts to the general public in the airport’s vicinity.

3. **Airspace Protection** – This is accomplished by placing limits on the height of man-made structures and other objects in the airport vicinity, and restrictions on other uses that potentially pose hazards to flight.

4. **Overflight** – The impacts of aircraft flight over a community.

Noise

Noise is one of the most basic airport land use compatibility concerns. Moreover, at major airline airports, many busy general aviation airports, and most military airfields, noise is often the most recognized impact by the general public.

Compatibility Objective

The purpose of noise compatibility policies s to reduce the number of people exposed to frequent and/or high levels of airport noise. This is often accomplished by avoiding the establishment of new, noise-sensitive land uses in areas that are exposed to significant levels of aircraft noise.
Measurement

For the purpose of airport land use compatibility planning, noise generated by the operation of aircraft to, from, and around an airport is primarily measured in terms of the cumulative noise levels of all aircraft operations. In California, the cumulative noise level metric established by state regulations, including for airport noise, is the Community Noise Equivalent Level (CNEL). This metric provides a single measure of the average sound level in decibels (dB) to which any point near an airport is exposed.

To reflect assumed greater community sensitivity to nighttime and evening noise, events during these periods are counted as being louder than actually measured due to the fact fewer ambient noises exist as during the daytime. Cumulative noise levels are usually illustrated on airport area maps as contour lines connecting points of equal noise exposure. Mapped noise contours primarily show areas of significant noise exposures – ones affected by high concentrations of aircraft takeoffs and landings.

Calculating cumulative noise levels requires several inputs, including the number, type, and time of day of aircraft operations, the location of flight tracks as well as other data. Airports with air traffic control towers can often provide recorded data, and in most metropolitan areas, noise monitoring and radar flight tracking data is available. An important point to be stressed is that, despite the availability of a multitude of data, the location of noise contours is not necessarily precise. In the best of situations, where extensive noise monitoring and flight track data is available, current contours can be accurate to within ±1 dB. In locations where less data is available, the level of accuracy has generally been found to be ±3 dB.

Compatibility Strategies

The basic strategy for achieving noise compatibility in the vicinity of an airport is to limit development of land uses which are particularly sensitive to noise. Given the effect that varying levels of noise can have on people (see Table B-1), the most acceptable land uses are ones which either involve few people, or generate significant noise levels themselves (such as other transportation facilities or some industrial uses).

On occasion, local considerations outweigh noise impacts and result in decisions by local land use jurisdictions or even ALUCs to allow residential development in locations where this type of use would normally be considered incompatible. In these situations, approval of development should be conditioned upon the dedication of avigation easement and requirements for sufficient acoustic insulation of structures to assure that aircraft noise is reduced to an interior noise level of 45 dB CNEL or less.
### TABLE B-1
SUMMARY OF EFFECTS OF NOISE ON PEOPLE

<table>
<thead>
<tr>
<th>Day-Night Average Sound Level (Decibels)</th>
<th>Hearing Loss (Qualitative Description)</th>
<th>Annoyance* (Percentage of Population Highly Annoyed)**</th>
<th>Average Community Reaction***</th>
<th>General Community Attitude Toward Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥75</td>
<td>May begin to occur</td>
<td>37%</td>
<td>Very severe</td>
<td>Noise is likely to be the most important of all adverse aspects of the community environment.</td>
</tr>
<tr>
<td>70</td>
<td>Will not likely occur</td>
<td>22%</td>
<td>Severe</td>
<td>Noise is one of the most important adverse aspects of the community environment.</td>
</tr>
<tr>
<td>65</td>
<td>Will not occur</td>
<td>12%</td>
<td>Significant</td>
<td>Noise is one of the important adverse aspects of the community environment.</td>
</tr>
<tr>
<td>60</td>
<td>Will not occur</td>
<td>7%</td>
<td>Moderate to Slight</td>
<td>Noise may be considered an adverse aspect of the community environment.</td>
</tr>
<tr>
<td>≤55</td>
<td>Will not occur</td>
<td>3%</td>
<td>Slight</td>
<td>Noise considered no more important than various other environmental factors.</td>
</tr>
</tbody>
</table>


2 A summary measure of the general adverse reaction of people to living in noisy environments that cause speech interference, sleep disturbance, desire for tranquil environment, and the inability to use the telephone, radio or television satisfactorily.

3 The percentage of people reporting annoyance to lesser extents are higher in each case. An unknown small percentage of people will report being "highly annoyed" even in the quietest surroundings. One reason is the difficulty all people have in integrating annoyance over a very long time. USAF Update with 400 points (Finegold et al. 1992)

4 Attitudes or other non-acoustic factors can modify this. Noise at low levels can still be an important problem, particularly when it intrudes into a quiet environment.

NOTE:
Research implicates noise as a factor producing stress-related health effects such as heart disease, high blood pressure and stroke, ulcers and other digestive disorders. The relationships between noise and these effects, however, have not as yet been conclusively demonstrated. (Thompson 1981; Thompson et al. 1989; CHABA 1981; CHABA 1982; Hatis et al. 1980; and U.S. EPA 1981)

Source: Federal Interagency Committee on Noise (1982)

Basis for Setting Criteria

Compatibility criteria related to cumulative noise levels are well-established in federal and state laws and regulations. The basic state criterion sets a CNEL of 65 dB as the maximum noise level normally compatible with urban residential land uses, though local jurisdictions can institute a lower maximum CNEL for residential land uses. A process called “normalization” is one means of adjusting the criteria to reflect ambient sound levels, the community’s previous exposure to noise, and any other local characteristics. This process helps to determine what CNEL is of significance to that particular community. Once the baseline maximum CNEL for residential uses is established, criteria for other land uses can be set in a manner consistent with this starting point.

Safety

In comparison to noise, safety is in many respects a more difficult concern to address in airport land use compatibility policies. The primary reason for this difference is that safety policies address uncertain events which may occur with occasional aircraft operations, whereas noise policies deal with known, quantifiable, and more or less predictable events which do occur with every aircraft operation. Because aircraft accidents happen infrequently and the time, place, and consequences of their occurrence cannot be predicted, the concept of “risk” is central to the assessment of safety compatibility. From the standpoint of land use planning, two variables determine the degree of risk posed by potential aircraft accidents:

1. **Accident Frequency** – Where and when aircraft accidents occur in the vicinity of the airport; and

2. **Accident Consequences** – Land uses and land use characteristics which affect the severity of an accident when one occurs.

Compatibility Objective

The main objective of safety compatibility criteria is to simply minimize the risks associated with potential aircraft accidents. This task is made up of two components; 1) safety on the ground; and 2) safety for aircraft occupants. The fundamental objective for providing safety on the ground is to protect people and property in the event of an aircraft accident near an airport. Safety for aircraft occupants involves trying to find ways in which to enhance the chances of survival of occupants of an aircraft involved in an accident beyond the runway environment.

Measurement

Measuring the degree of safety concerns around an airport involves a determination of frequency, or in other words, assessing the potential for an accident to occur. This task includes determining two elements: where aircraft accidents are expected to occur, and when an accident might happen.
Of these two elements, the *where*, or “spatial” element is most meaningful to land use compatibility planning for a given airport. Looking at nationwide accident data, it is possible to perceive the possible location of aircraft accidents based upon the frequency of occurrence. In contrast, the *when*, or “time” element, is not very useful for land use compatibility planning due to the fact that there are too many unknowns in determining when an aircraft accident might occur.

While the historical number of aircraft accidents nationwide has varied over the years, future trends can nevertheless be predicted with a fair degree of accuracy. Even with respect to specific classes of aviation (air carrier, general aviation, and military) or types of aircraft (business jets, helicopters, etc.), the frequency of accident occurrence is fairly constant and predictable. The difficulty with prediction arises when the focus is on a single airport rather than nationwide data. The *Handbook* presents a set of diagrams indicating where accidents are most likely to occur around general aviation airports. Figure B-2 and 3 show the spatial distribution of general aviation aircraft accidents. (These charts show accident data for all general aviation airports. Data on accidents associated with varying runway lengths can be found in the *Handbook*, and was used for the purpose of developing safety criteria for this CLUP.)

From these two charts, several important facts are revealed:

**Arrival Accident Patterns**

- Arrival accident sites tend to be located close to the extended runway centerline.
- Some 40% fall within a narrow strip, approximately 500-feet-wide and extending some 2,000 feet from the runway end.
- Over 80% of the arrival accident sites are concentrated within just 2,000 feet laterally from the extended runway centerline, but extending outward to approximately 11,000 feet (about 2.0 miles) of the runway end.

**Departure Accident Patterns**

- Departure accident sites also tend to be clustered near the runway end, but are not as concentrated close to the runway centerline as are the arrival accident sites.
- The most tightly bunched 40% of the points lie within an area 1,500 feet wide, extending approximately 2,000 feet beyond the runway end, but also adjacent to the edges of the runway.
- The 80% contour extends some 6,000 feet beyond the runway end plus along the sides of the runway and spreads laterally approximately 2,000 feet from the runway centerline.
FIGURE B-2
GENERAL AVIATION ACCIDENT DISTRIBUTION CONTOURS (ALL ARRIVALS)

FIGURE B-3
GENERAL AVIATION ACCIDENT DISTRIBUTION CONTOURS (ALL DEPARTURES)

Notes:
- 928 departure accidents in database—each dot represents one accident site.
- Contours represent relative intensities (highest concentration) of points in 20% increments.

Two factors account for the substantial number of departure accident sites lateral to the runway.

1. As defined for the purposes of the database, departing aircraft which crash while attempting to return to the runway are counted as departure accidents unless the aircraft became established in the traffic pattern or on final approach; and

2. On long runways, aircraft may begin to turn before reaching the far end of the runway.

The next step in taking the accident data provided above and making it applicable to a specific airport is the creation of safety zones. Within safety zones, it is possible for ALUCs to define safety compatibility policies. Safety zones are created to match runways of varying lengths and the approach patterns of a specific airport. The shapes of these zones reflect not just the accident distribution data, but also the ways in which different aircraft operations create various accident risk characteristics close to an airport. For most airports, the Handbook suggests creating six safety zones. The locations and typical dimensions of safety zones for both general aviation airports and air carrier airports are depicted in Figures B-4 and 5. In general, the level of risk associated with each safety zone is as follows:

- **Zone 1 (Runway Protection Zone)** – The risk is greatest in this zone. The dimensions of the RPZ are defined by FAA, which encourages airport ownership of this area and designates specific land use standards when it is owned by the airport. Where the land is not owned by the airport, FAA standards serve as recommendations.

- **Zone 2 (Inner Approach/Departure Zones)** – This zone extends beyond Zone 1, and has a significant degree of risk.

- **Zone 3 (Inner Turning Zones)** – The risk in this zone is less than in Zones 1 and 2, but greater than 4, 5, and 6. This area encompasses locations where aircraft typically turn at low altitudes while approaching or departing the runway.

- **Zone 4 (Outer Approach/Departure Zones)** – This zone extends along the runway centerline beyond Zone 2. The degree of significance of this zone depends on whether or not an airport has a straight-in instrument approach procedure.

- **Zone 5 (Sideline Zone)** – This zone lies adjacent to the runway, and is usually located on airport property. The risk associated with this area is similar to Zone 4.

- **Zone 6 (Traffic Pattern Zone)** – This zone contains the aircraft traffic pattern. While a high percentage of accidents occur in this zone, the size of the zone reduces the risk level as compared to the other zones.
FIGURE B-4
SAFETY COMPATIBILITY ZONES FOR GENERAL AVIATION RUNWAYS

Example 1:
Short General Aviation Runway
Assumptions:
• Length less than 4,000 feet
• Approach visibility minimums ≥ 1 mile or visual approach only
• Zone 1 = 250' x 450' x 1,000'

Example 2:
Medium General Aviation Runway
Assumptions:
• Length 4,000 to 5,999 feet
• Approach visibility minimums ≥ 3/4 mile and < 1 mile
• Zone 1 = 1,000' x 1,510' x 1,700'

Example 3:
Long General Aviation Runway
Assumptions:
• Length 6,000 feet or more
• Approach visibility minimums < 3/4 mile
• Zone 1 = 1,000' x 1,750' x 2,500'

FIGURE B-4 (CONT.)
SAFETY COMPATIBILITY ZONE EXAMPLES FOR GENERAL AVIATION RUNWAYS

Example 4:
General Aviation Runway with Single-Skid Traffic Pattern

Assumptions:
• No traffic pattern on right
• Length 4,000 to 5,999 feet
• Approach visibility minimums ≥ 3/4 mile
  and < 1 mile
• Zone 1 = 1,000' × 1,510' × 1,700'

Example 5:
Low-Activity General Aviation Runway

Assumptions:
• Less than 2,000 takeoffs and landings per year at individual runway end,
• Length less than 4,000 feet
• Approach visibility minimums ≥ 1 mile or visual approach only
• Zone 1 = 250' × 450' × 1,000'

Legend
1. Runway Protection Zone
2. Inner Approach/Departure Zone
3. Inner Turning Zone
4. Outer Approach/Departure Zone
5. Sideline Zone
6. Traffic Pattern Zone

Notes:
• RPZ (Zone 1) size in each example is as indicated by FAA criteria for
  the approach type assumed. Adjustment may be necessary if the
  approach type differs.
• See Table 9A for factors to consider regarding other possible adjustments
  to these zones to reflect characteristics of a specific airport runway.
• See Tables 9B and 9C for guidance on compatibility criteria applicable
  with each zone.

These examples are intended to provide general guidance for establishment of airport safety compatibility zones. They do not represent California Department of Transportation standards or policy.

FIGURE B-5
LARGE AIR CARRIER AND MILITARY RUNWAYS

Assumptions:
• Minimal light-aircraft general aviation activity
• Predominately straight-in and straight-out flight routes
• Approach visibility minimums < 3/4 mile
• Zone 1 = 1,000' x 1,750' x 2,500'

Legend
1. Runway Protection Zone (Clear Zone)
2. Inner Approach/Departure Zone (Accident Potential Zone I)
3. Inner Turning Zone
4. Outer Approach/Departure Zone (Accident Potential Zone II)
5. Sideline Zone

Notes:
• R&PZ (Zone 1) size in the large air carrier runway example is as indicated by FAA criteria for the approach type assumed. Adjustment may be necessary if the approach type differs.
• See Table 9A for factors to consider regarding other possible adjustments to these zones to reflect characteristics of a specific airport runway.
• See Tables 9B and 9C for guidance on compatibility criteria applicable with each zone.

These examples are intended to provide general guidance for establishment of airport safety compatibility zones. They do not represent California Department of Transportation standards or policy.

Compatibility Strategies

Safety compatibility strategies focus on the *consequences* component of risk assessment. Essentially, the question that any ALUC or local jurisdiction should ask when making land use decisions in an airport AIA is: what land use planning measure can be taken to reduce the severity of an aircraft accident if one occurs in a particular location near an airport? Although there is a significant overlap, specific strategies must consider both components of the safety compatibility objective: protecting people and property on the ground; and enhancing safety for aircraft occupants. In each case, the primary strategy is to limit the intensity of use (the number of people concentrated on the site) in locations most susceptible to an off-airport aircraft accident. This is accomplished in several ways:

- **Density and Intensity Limitations:** Establishment of criteria limiting the maximum number of dwellings or people in areas close to the airport is the most direct method of reducing the potential severity of an aircraft accident.

- **Open Land Requirements:** Creation of requirements for open land near an airport addresses the objective of enhancing safety for the occupants of an aircraft forced to make an emergency landing away from a runway.

- **Highly Risk-Sensitive Uses:** Certain critical types of land uses – particularly schools, hospitals, and other uses in which the mobility of occupants is effectively limited – should be avoided in the vicinity of an airport regardless of the number of people involved.

Basis of Setting Criteria

Setting safety compatibility criteria presents the fundamental question of what is safe, or rather, what is an *acceptable* risk? In one respect, it may seem ideal to reduce risks to a minimum by prohibiting most types of land use development from areas near airports. However, there are usually costs associated with such high degree of restrictiveness. In practice, safety criteria are set on a progressive scale with the greatest restrictions established in locations with the greatest potential for aircraft accidents. The following resources can and should be utilized in order to develop safety criteria:

- **Established Guidance:** Little established guidance is available to ALUCs regarding how restrictive to make safety criteria for various parts of an airport’s environs. Unlike noise, there are no formal federal or state laws or regulations which set safety criteria for airport area land uses for civilian airport except within runway protection zones (and with regard to airspace obstructions as described separately under *airspace protection*). FAA safety criteria primarily are focused on the runway and its immediate environment. Runway protection zones (also known as “clear areas”), were originally established mostly for the purpose of protecting the occupants of aircraft which overrun or land short of a runway.
Now, they are defined by FAA as intended to enhance the protection of people and property on the ground.

- *New Research*: To provide a better foundation for establishment of safety criteria in other portions of the airport environs, extensive research into the distribution of general aviation accident locations was conducted in conjunction with the 1993 edition of the *Handbook* and expanded as an initial step in preparation of the present edition. For this reason, the *Handbook* serves as the primary guide for the development of safety compatibility criteria. Although this document is not regulatory by nature, state law requires ALUCs to “be guided by” the information provided in the *Handbook*.

**Airspace Protection**

Relatively few aircraft accidents are caused by land use conditions which are hazards to flight. The potential exists, however, and protecting against it is essential to airport land use safety compatibility.

**Compatibility Objective**

Because airspace protection is in effect a safety factor, its object can likewise be thought of in terms of risk. Specifically, the objective is to avoid development of land use conditions which, by posing hazards to flight, can increase the risk of an accident occurring. The particular hazards of concern are:

- Airspace obstructions;
- Wildlife hazards, particularly bird strikes; and
- Land use characteristics which pose other potential hazards to flight by creating visual, unseen, or electronic interference with air navigation.

**Measurement**

The measurement of requirements for airspace protection around an airport is a function of several variables including: the dimensions and layout of the runway system; the type of operating procedures established for the airport; and, indirectly, the performance capabilities of aircraft operated at the airport.

- *Airspace Obstructions*: Whether a particular object constitutes an airspace obstruction depends upon the height of the object relative to the runway elevation and its proximity to the airport. The acceptable height of objects near an airport is most commonly determined by application of standards set forth in Federal Aviation Regulation Part 77: *Objects Affecting Navigable Airspace*. These regulations establish a three-dimensional...
space in the air above an airport. Any object which penetrates this volume of airspace is considered to be an obstruction and may affect the aeronautical use of the airspace.

- **Wildlife and Other Hazards to Flight**: The significance of other potential hazards to flight is principally measured in terms of a hazard’s specific characteristics and its distance from the airport and/or its normal traffic patterns.

### Compatibility Strategies

Compatibility strategies for the protection of airport airspace are relatively simple and are directly associated with these types of hazards:

- **Airspace Obstructions**: Buildings, antennas, other types of structures, and trees should be limited in height so as not to pose a potential hazard to flight.

- **Wildlife and Other Hazards to Flight**: Land uses which may create other types of hazards to flight near an airport should be avoided or modified so as not to include the offending characteristic. This could include, but would not be limited to land uses which create habitat for wildlife potentially hazardous to aircraft operations, industrial uses which create smoke, steam, or thermal plumes, and utility uses like electrical substations which could cause electrical interference.

### Basis for Setting Criteria

The criteria for determining airspace obstructions and other hazards to flight have been long-established in FAR Part 77 and other FAA regulations and guidelines. Also, State of California regulation of obstructions under the State Aeronautics Act (Public Utilities Code, Section 21659) is based on FAR Part 77 criteria. (For further information regarding FAR Part 77, please see Appendix C.)

### Overflight

Experience at many airports has shown that noise-related concerns do not stop at the boundary of the outermost mapped CNEL contour. Many people are sensitive to the frequent presence of aircraft overhead even at low noise levels. These reactions can be most accurately described in the form of annoyance.

At many airports, particularly air carrier airports, complaints often come from locations beyond any of the defined noise contours. Indeed, heavily used flight corridors to and from metropolitan areas are known to generate noise complaints 50 miles or more from the associated airport. The basis for such complaints may be a desire and expectation that outside noise sources not be intrusive – or, in some circumstances, even distinctly audible – above the quiet, natural background noise level. Elsewhere, especially in locations beneath the traffic patterns of general
aviation airports, a fear factor also contributes to some individuals’ sensitivity to aircraft overflights.

While these impacts may be important community concerns, the question of importance here is whether any land use planning actions can be taken to avoid or mitigate the impacts or otherwise address the concerns. Commonly, when overflight impacts are under discussion in a community, the focus is on modification of the flight routes. Indeed, some might argue that overflight impacts should be addressed solely through the aviation side of the equation – not only flight route changes, but other modifications to where, when, and how aircraft are operated.

ALUCs are particularly limited in their ability to deal with overflight concerns. For one, they have no authority over aircraft operations. The most they can do to bring about changes is to make requests or recommendations. Even with regard to land use, the authority of ALUCs extends only to proposed new development.

**Compatibility Objective**

In an idealistic sense, the compatibility objective with respect to overflight is the same as for noise: avoid land use development which can lead to annoyance and complaints. However, given the extensive geographic area over which the impacts may occur, this objective is unrealistic except when relatively close to the airport. A more realistic objective therefore is to promote conditions under which annoyance will be minimized.

**Measurement**

Determining where to draw boundaries around areas of potentially significant overflight noise exposure is difficult because these locations extend beyond the well-defined CNEL contours which indicate areas of high noise exposure. CNEL contours are not very precise as low noise levels, especially where aircraft flight tracks are widely divergent. The general locations over which aircraft regularly fly as they approach and depart an airport is thus a better indicator of overflight annoyance concerns. For general aviation airports, such locations include areas beneath the standard airport traffic patterns, the portions of the pattern entry and departure routes flown at normal traffic pattern altitude, and perhaps additional places which experience a high concentration of overflights. Also, at all types of airports, common IFR arrival and departure routes can produce overflight concerns, sometimes many miles from the airport.

**Compatibility Strategies**

As noted above, the ideal land use compatibility strategy with respect to overflight annoyance is to avoid development of residential and other noise-sensitive uses in the affected locations. To the extent that this approach is not practical, three different (but not mutually exclusive) strategies are apparent.
One strategy is to help people with above-average sensitivity to aircraft overflights – people who are highly annoyed by overflights – to avoid living in locations where frequent overflights occur. This strategy involves making people more aware of an airport’s proximity and its current and potential aircraft noise impacts on the community before the move to the area. This can be accomplished through buyer awareness measures such as dedication of avigation or overflight easements, recorded deed notices, and/or real estate disclosure statements. In new residential developments, posting of signs in the real estate sales office and/or at key locations in the subdivision itself can serve as additional means of alerting the initial purchasers about the impacts.

A second strategy is to minimize annoyance by reducing the intrusiveness of aircraft noise above normal background noise levels. Because ALUCs and local jurisdictions have no way of regulating aircraft noise levels, the other option is to promote types of residential land uses which tend to mask the intrusive noise. Particularly undesirable are “ranchette” style residential areas consisting of large (about an acre on average) lots. Such developments are dense enough to expose many people to overflight noise, yet sufficiently rural in character that background noise levels are likely to be low.

Finally, for highly noise-sensitive uses, acoustical treatment of the structures, together with dedication of an avigation easement, may be appropriate.

**Basis for Setting Criteria**

In California, the most definitive guidance on the location of overflight impacts or the appropriate associated action taken in response to an impact comes from a state law which went into effect January 2004. California statutes (Business and Professional Code Section 11010 and Civil Code Sections 1103 and 1353) now require most residential real estate transactions, including all involving subdivisions, to include disclosure of the property’s proximity to a nearby airport. The area encompassed by the disclosure requirement is two miles from the airport, or the AIA as established by the ALUC.
Appendix C
Federal Aviation Regulations – Part 77
APPENDIX C
Federal Aviation Regulations, Part 77

Part 77 — Objects Affecting Navigable Airspace

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Authority: 49 U.S.C. 106(g), 40103, 40113-40114, 44502, 44701, 44718, 46101-46102, 46104.
Source: Docket No. 1882, 30 FR 1839, Feb. 10, 1965, unless otherwise noted.
Subpart A — General

Sec. 77.1 Scope.

This part:

(a) Establishes standards for determining obstructions in navigable airspace;

(b) Sets forth the requirements for notice to the Administrator of certain proposed construction or alteration;

(c) Provides for aeronautical studies of obstructions to air navigation, to determine their effect on the safe and efficient use of airspace;

(d) Provides for public hearings on the hazardous effect of proposed construction or alteration on air navigation; and

(e) Provides for establishing antenna farm areas.

Sec. 77.2 Definition of Terms.

For the purpose of this part:

“Airport available for public use” means an airport that is open to the general public with or without a prior request to use the airport.

“A seaplane base” is considered to be an airport only if its sea lanes are outlined by visual markers.

“Nonprecision instrument runway” means a runway having an existing instrument approach procedure utilizing air navigation facilities with only horizontal guidance, or area type navigation equipment, for which a straight-in nonprecision instrument approach procedure has been approved, or planned, and for which no precision approach facilities are planned, or indicated on an FAA planning document or military service military airport planning document.

“Precision instrument runway” means a runway having an existing instrument approach procedure utilizing an Instrument Landing System (ILS), or a Precision Approach Radar (PAR). It also means a runway for which a precision approach system is planned and is so indicated by an FAA approved airport layout plan; a military service approved military airport layout plan; any other FAA planning document, or military service military airport planning document.

“Utility runway” means a runway that is constructed for and intended to be used by propeller driven aircraft of 12,500 pounds maximum gross weight and less.
“Visual runway” means a runway intended solely for the operation of aircraft using visual approach procedures, with no straight-in instrument approach procedure and no instrument designation indicated on an FAA approved airport layout plan, a military service approved military airport layout plan, or by any planning document submitted to the FAA by competent authority.

[Amtd. 77-5, 33 FR 5256, Apr. 2, 1968, as amended by Amtd. 77-9, 36 FR 5969, Apr. 1, 1971]

Sec. 77.3 Standards.
(a) The standards established in this part for determining obstructions to air navigation are used by the Administrator in:
   (1) Administering the Federal-aid Airport Program and the Surplus Airport Program;
   (2) Transferring property of the United States under section 16 of the Federal Airport Act;
   (3) Developing technical standards and guidance in the design and construction of airports; and
   (4) Imposing requirements for public notice of the construction or alteration of any structure where notice will promote air safety.

(b) The standards used by the Administrator in the establishment of flight procedures and aircraft operational limitations are not set forth in this part but are contained in other publications of the Administrator.


Sec. 77.5 Kinds of Objects Affected.
This part applies to:
(a) Any object of natural growth, terrain, or permanent or temporary construction or alteration, including equipment or materials used therein, and apparatus of a permanent or temporary character; and

(b) Alteration of any permanent or temporary existing structure by a change in its height (including appurtenances), or lateral dimensions, including equipment or materials used therein.
Subpart B — Notice of Construction or Alteration

Sec. 77.11 Scope.

(a) This subpart requires each person proposing any kind of construction or alteration described in Sec. 77.13(a) to give adequate notice to the Administrator. It specifies the locations and dimensions of the construction or alteration for which notice is required and prescribes the form and manner of the notice. It also requires supplemental notices 48 hours before the start and upon the completion of certain construction or alteration that was the subject of a notice under Sec. 77.13(a).

(b) Notices received under this subpart provide a basis for:

(1) Evaluating the effect of the construction or alteration on operational procedures and proposed operational procedures;

(2) Determinations of the possible hazardous effect of the proposed construction or alteration on air navigation;

(3) Recommendations for identifying the construction or alteration in accordance with the current Federal Aviation Administration Advisory Circular AC 70/7460-1 entitled “Obstruction Marking and Lighting,” which is available without charge from the Department of Transportation, Distribution Unit, TAD 484.3, Washington, D.C. 20590.

(4) Determining other appropriate measures to be applied for continued safety of air navigation; and

(5) Charting and other notification to airmen of the construction or alteration.

Sec. 77.13 Construction or Alteration Requiring Notice.

(a) Except as provided in Sec. 77.15, each sponsor who proposes any of the following construction or alteration shall notify the Administrator in the form and manner prescribed in Sec. 77.17:

(1) Any construction or alteration of more than 200 feet in height above the ground level at its site.

(2) Any construction or alteration of greater height than an imaginary surface extending outward and upward at one of the following slopes:

(i) 100 to 1 for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each airport specified in paragraph (a)(5) of this section with at least one runway more than 3,200 feet in actual length, excluding heliports.
(ii) 50 to 1 for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each airport specified in paragraph (a)(5) of this section with its longest runway no more than 3,200 feet in actual length, excluding heliports.

(iii) 25 to 1 for a horizontal distance of 5,000 feet from the nearest point of the nearest landing and takeoff area of each heliport specified in paragraph (a)(5) of this section.

(3) Any highway, railroad, or other traverse way for mobile objects, of a height which, if adjusted upward 17 feet for an Interstate Highway that is part of the National System of Military and Interstate Highways where overcrossings are designed for a minimum of 17 feet vertical distance, 15 feet for any other public roadway, 10 feet or the height of the highest mobile object that would normally traverse the road, whichever is greater, for a private road, 23 feet for a railroad, and for a waterway or any other traverse way not previously mentioned, an amount equal to the height of the highest mobile object that would normally traverse it, would exceed a standard of paragraph (a) (1) or (2) of this section.

(4) When requested by the FAA, any construction or alteration that would be in an instrument approach area (defined in the FAA standards governing instrument approach procedures) and available information indicates it might exceed a standard of Subpart C of this part.

(5) Any construction or alteration on any of the following airports (including heliports):

(i) An airport that is available for public use and is listed in the Airport Directory of the current Airman’s Information Manual or in either the Alaska or Pacific Airman’s Guide and Chart Supplement.

(ii) An airport under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration, and, except for military airports, it is clearly indicated that that airport will be available for public use.

(iii) An airport that is operated by an armed force of the United States.

(b) Each sponsor who proposes construction or alteration that is the subject of a notice under paragraph (a) of this section and is advised by an FAA regional office that a supplemental notice is required shall submit that notice on a prescribed form to be received by the FAA regional office at least 48 hours before the start of the construction or alteration.

(c) Each sponsor who undertakes construction or alteration that is the subject of a notice under paragraph (a) of this section shall, within 5 days after that construction or alteration reaches its greatest height, submit a supplemental notice on a prescribed form to the FAA regional office having jurisdiction over the region involved, if—

(1) The construction or alteration is more than 200 feet above the surface level of its site; or

(2) An FAA regional office advises him that submission of the form is required.

[Amdt. 77-5, 33 FR 5256, Apr. 2, 1968, as amended by Amdt. 77-9, 36 FR 5970, Apr. 1, 1971; Amdt. 77-10, 37 FR 4705, Mar. 4, 1972]
Sec. 77.15 Construction or Alteration Not Requiring Notice.

No person is required to notify the Administrator for any of the following construction or alteration:

(a) Any object that would be shielded by existing structures of a permanent and substantial character or by natural terrain or topographic features of equal or greater height, and would be located in the congested area of a city, town, or settlement where it is evident beyond all reasonable doubt that the structure so shielded will not adversely affect safety in air navigation.

(b) Any antenna structure of 20 feet or less in height except one that would increase the height of another antenna structure.

(c) Any air navigation facility, airport visual approach or landing aid, aircraft arresting device, or meteorological device, of a type approved by the Administrator, or an appropriate military service on military airports, the location and height of which is fixed by its functional purpose.

(d) Any construction or alteration for which notice is required by any other FAA regulation.


Sec. 77.17 Form and Time of Notice.

(a) Each person who is required to notify the Administrator under Sec. 77.13(a) shall send one executed form set (four copies) of FAA Form 7460-1, Notice of Proposed Construction or Alteration, to the Manager, Air Traffic Division, FAA Regional Office having jurisdiction over the area within which the construction or alteration will be located. Copies of FAA Form 7460-1 may be obtained from the headquarters of the Federal Aviation Administration and the regional offices.

(b) The notice required under Sec. 77.13(a) (1) through (4) must be submitted at least 30 days before the earlier of the following dates:

(1) The date the proposed construction or alteration is to begin.

(2) The date an application for a construction permit is to be filed. However, a notice relating to proposed construction or alteration that is subject to the licensing requirements of the Federal Communications Act may be sent to FAA at the same time the application for construction is filed with the Federal Communications Commission, or at any time before that filing.

(c) A proposed structure or an alteration to an existing structure that exceeds 2,000 feet in height above the ground will be presumed to be a hazard to air navigation and to result in an inefficient utilization of airspace and the applicant has the burden of overcoming that presumption. Each notice submitted under the pertinent provisions of this Part 77 proposing a structure in excess of 2,000 feet above ground, or an alteration that will make an existing structure exceed that height, must contain a detailed showing, directed to meeting this...
burden. Only in exceptional cases, where the FAA concludes that a clear and compelling showing has been made that it would not result in an inefficient utilization of the airspace and would not result in a hazard to air navigation, will a determination of no hazard be issued.

(d) In the case of an emergency involving essential public services, public health, or public safety that requires immediate construction or alteration, the 30-day requirement in paragraph (b) of this section does not apply and the notice may be sent by telephone, telegraph, or other expeditious means, with an executed FAA Form 7460-1 submitted within 5 days thereafter. Outside normal business hours, emergency notices by telephone or telegraph may be submitted to the nearest FAA Flight Service Station.

(e) Each person who is required to notify the Administrator by paragraph (b) or (c) of Sec. 77.13, or both, shall send an executed copy of FAA Form 117-1, Notice of Progress of Construction or Alteration, to the Manager, Air Traffic Division, FAA Regional Office having jurisdiction over the area involved.

(Sec. 6, 80 Stat. 937, 49 U.S.C. 1655

Sec. 77.19   Acknowledgment of Notice.
(a) The FAA acknowledges in writing the receipt of each notice submitted under Sec. 77.13(a).

(b) If the construction or alteration proposed in a notice is one for which lighting or marking standards are prescribed in the FAA Advisory Circular AC 70/7460-1, entitled “Obstruction Marking and Lighting,” the acknowledgment contains a statement to that effect and information on how the structure should be marked and lighted in accordance with the manual.

(c) The acknowledgment states that an aeronautical study of the proposed construction or alteration has resulted in a determination that the construction or alteration:

(1) Would not exceed any standard of Subpart C and would not be a hazard to air navigation;

(2) Would exceed a standard of Subpart C but would not be a hazard to air navigation; or

(3) Would exceed a standard of Subpart C and further aeronautical study is necessary to determine whether it would be a hazard to air navigation, that the sponsor may request within 30 days that further study, and that, pending completion of any further study, it is presumed the construction or alteration would be a hazard to air navigation.

Subpart C — Obstruction Standards

Sec. 77.21 Scope.

(a) This subpart establishes standards for determining obstructions to air navigation. It applies to existing and proposed manmade objects, objects of natural growth, and terrain. The standards apply to the use of navigable airspace by aircraft and to existing air navigation facilities, such as an air navigation aid, airport, Federal airway, instrument approach or departure procedure, or approved off-airway route. Additionally, they apply to a planned facility or use, or a change in an existing facility or use, if a proposal therefore is on file with the Federal Aviation Administration or an appropriate military service on the date the notice required by Sec. 77.13(a) is filed.

(b) At those airports having defined runways with specially prepared hard surfaces, the primary surface for each such runway extends 200 feet beyond each end of the runway. At those airports having defined strips or pathways that are used regularly for the taking off and landing of aircraft and have been designated by appropriate authority as runways, but do not have specially prepared hard surfaces, each end of the primary surface for each such runway shall coincide with the corresponding end of the runway. At those airports, excluding seaplane bases, having a defined landing and takeoff area with no defined pathways for the landing and taking off of aircraft, a determination shall be made as to which portions of the landing and takeoff area are regularly used as landing and takeoff pathways. Those pathways so determined shall be considered runways and an appropriate primary surface as defined in Sec. 77.25(c) will be considered as being longitudinally centered on each runway so determined, and each end of that primary surface shall coincide with the corresponding end of that runway.

(c) The standards in this subpart apply to the effect of construction or alteration proposals upon an airport if, at the time of filing of the notice required by Sec. 77.13(a), that airport is—

(1) Available for public use and is listed in the Airport Directory of the current Airman’s Information Manual or in either the Alaska or Pacific Airman’s Guide and Chart Supplement; or

(2) A planned or proposed airport or an airport under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration, and, except for military airports, it is clearly indicated that that airport will be available for public use; or,

(3) An airport that is operated by an armed force of the United States.

Sec. 77.23 Standards for Determining Obstructions.

(a) An existing object, including a mobile object, is, and a future object would be an obstruction to air navigation if it is of greater height than any of the following heights or surfaces:

1. A height of 500 feet above ground level at the site of the object.
2. A height that is 200 feet above ground level or above the established airport elevation, whichever is higher, within 3 nautical miles of the established reference point of an airport, excluding heliports, with its longest runway more than 3,200 feet in actual length, and that height increases in the proportion of 100 feet for each additional nautical mile of distance from the airport up to a maximum of 500 feet.
3. A height within a terminal obstacle clearance area, including an initial approach segment, a departure area, and a circling approach area, which would result in the vertical distance between any point on the object and an established minimum instrument flight altitude within that area or segment to be less than the required obstacle clearance.
4. A height within an en route obstacle clearance area, including turn and termination areas, of a Federal airway or approved off-airway route, that would increase the minimum obstacle clearance altitude.
5. The surface of a takeoff and landing area of an airport or any imaginary surface established under Sec. 77.25, Sec. 77.28, or Sec. 77.29. However, no part of the take-off or landing area itself will be considered an obstruction.

(b) Except for traverse ways on or near an airport with an operative ground traffic control service, furnished by an air traffic control tower or by the airport management and coordinated with the air traffic control service, the standards of paragraph (a) of this section apply to traverse ways used or to be used for the passage of mobile objects only after the heights of these traverse ways are increased by:

1. Seventeen feet for an Interstate Highway that is part of the National System of Military and Interstate Highways where overcrossings are designed for a minimum of 17 feet vertical distance.
2. Fifteen feet for any other public roadway.
3. Ten feet or the height of the highest mobile object that would normally traverse the road, whichever is greater, for a private road.
4. Twenty-three feet for a railroad, and,
5. For a waterway or any other traverse way not previously mentioned, an amount equal to the height of the highest mobile object that would normally traverse it.

[Amdt. 77-9, 36 FR 5970, Apr. 1, 1971]
Sec. 77.25 Civil Airport Imaginary Surfaces.

The following civil airport imaginary surfaces are established with relation to the airport and to each runway. The size of each such imaginary surface is based on the category of each runway according to the type of approach available or planned for that runway. The slope and dimensions of the approach surface applied to each end of a runway are determined by the most precise approach existing or planned for that runway end.

(a) Horizontal surface. A horizontal plane 150 feet above the established airport elevation, the perimeter of which is constructed by swinging arcs of specified radii from the center of each end of the primary surface of each runway of each airport and connecting the adjacent arcs by lines tangent to those arcs. The radius of each arc is:

(1) 5,000 feet for all runways designated as utility or visual;

(2) 10,000 feet for all other runways. The radius of the arc specified for each end of a runway will have the same arithmetical value. That value will be the highest determined for either end of the runway. When a 5,000-foot arc is encompassed by tangents connecting two adjacent 10,000-foot arcs, the 5,000-foot arc shall be disregarded on the construction of the perimeter of the horizontal surface.

(b) Conical surface. A surface extending outward and upward from the periphery of the horizontal surface at a slope of 20 to 1 for a horizontal distance of 4,000 feet.

(c) Primary surface. A surface longitudinally centered on a runway. When the runway has a specially prepared hard surface, the primary surface extends 200 feet beyond each end of that runway; but when the runway has no specially prepared hard surface, or planned hard surface, the primary surface ends at each end of that runway. The elevation of any point on the primary surface is the same as the elevation of the nearest point on the runway centerline. The width of a primary surface is:

(1) 250 feet for utility runways having only visual approaches.

(2) 500 feet for utility runways having nonprecision instrument approaches.

(3) For other than utility runways the width is:

(i) 500 feet for visual runways having only visual approaches.

(ii) 500 feet for nonprecision instrument runways having visibility minimums greater than three-fourths statute mile.

(iii) 1,000 feet for a nonprecision instrument runway having a nonprecision instrument approach with visibility minimums as low as three-fourths of a statute mile, and for precision instrument runways. The width of the primary surface of a runway will be that width prescribed in this section for the most precise approach existing or planned for either end of that runway.

(d) Approach surface. A surface longitudinally centered on the extended runway centerline and extending outward and upward from each end of the primary surface. An approach surface is applied to each end of each runway based upon the type of approach available or planned for that runway end.
(1) The inner edge of the approach surface is the same width as the primary surface and it expands uniformly to a width of:

(i) 1,250 feet for that end of a utility runway with only visual approaches;

(ii) 1,500 feet for that end of a runway other than a utility runway with only visual approaches;

(iii) 2,000 feet for that end of a utility runway with a nonprecision instrument approach;

(iv) 3,500 feet for that end of a nonprecision instrument runway other than utility, having visibility minimums greater than three-fourths of a statute mile;

(v) 4,000 feet for that end of a nonprecision instrument runway, other than utility, having a nonprecision instrument approach with visibility minimums as low as three-fourths statute mile; and

(vi) 16,000 feet for precision instrument runways.

(2) The approach surface extends for a horizontal distance of:

(i) 5,000 feet at a slope of 20 to 1 for all utility and visual runways;

(ii) 10,000 feet at a slope of 34 to 1 for all nonprecision instrument runways other than utility; and,

(iii) 10,000 feet at a slope of 50 to 1 with an additional 40,000 feet at a slope of 40 to 1 for all precision instrument runways.

(3) The outer width of an approach surface to an end of a runway will be that width prescribed in this subsection for the most precise approach existing or planned for that runway end.

(e) Transitional surface. These surfaces extend outward and upward at right angles to the runway centerline and the runway centerline extended at a slope of 7 to 1 from the sides of the primary surface and from the sides of the approach surfaces. Transitional surfaces for those portions of the precision approach surface which project through and beyond the limits of the conical surface, extend a distance of 5,000 feet measured horizontally from the edge of the approach surface and at right angles to the runway centerline.

[Amdt. 77-9, 36 FR 5970, Apr. 1, 1971; 36 FR 6741, Apr. 8, 1971]

Sec. 77.27  [Reserved]
Sec. 77.28 Military airport imaginary surfaces.

(a) Related to airport reference points. These surfaces apply to all military airports. For the purposes of this section a military airport is any airport operated by an armed force of the United States.

1. Inner horizontal surface. A plane is oval in shape at a height of 150 feet above the established airfield elevation. The plane is constructed by scribing an arc with a radius of 7,500 feet about the centerline at the end of each runway and interconnecting these arcs with tangents.

2. Conical surface. A surface extending from the periphery of the inner horizontal surface outward and upward at a slope of 20 to 1 for a horizontal distance of 7,000 feet to a height of 500 feet above the established airfield elevation.

3. Outer horizontal surface. A plane, located 500 feet above the established airfield elevation, extending outward from the outer periphery of the conical surface for a horizontal distance of 30,000 feet.

(b) Related to runways. These surfaces apply to all military airports.

1. Primary surface. A surface located on the ground or water longitudinally centered on each runway with the same length as the runway. The width of the primary surface for runways is 2,000 feet. However, at established bases where substantial construction has taken place in accordance with a previous lateral clearance criteria, the 2,000-foot width may be reduced to the former criteria.

2. Clear zone surface. A surface located on the ground or water at each end of the primary surface, with a length of 1,000 feet and the same width as the primary surface.

3. Approach clearance surface. An inclined plane, symmetrical about the runway centerline extended, beginning 200 feet beyond each end of the primary surface at the centerline elevation of the runway end and extending for 50,000 feet. The slope of the approach clearance surface is 50 to 1 along the runway centerline extended until it reaches an elevation of 500 feet above the established airport elevation. It then continues horizontally at this elevation to a point 50,000 feet from the point of beginning. The width of this surface at the runway end is the same as the primary surface, it flares uniformly, and the width at 50,000 is 16,000 feet.

4. Transitional surfaces. These surfaces connect the primary surfaces, the first 200 feet of the clear zone surfaces, and the approach clearance surfaces to the inner horizontal surface, conical surface, outer horizontal surface or other transitional surfaces. The slope of the transitional surface is 7 to 1 outward and upward at right angles to the runway centerline.

[Doc. No. 1882, 30 FR 1839, Feb. 10, 1965, as amended by Amdt. 77-1, 30 FR 6713, May 18, 1965; Amdt. 77-9, 36 FR 5971, Apr. 1, 1971]
Sec. 77.29  Airport Imaginary Surfaces for Heliports.

(a) Heliport primary surface. The area of the primary surface coincides in size and shape with the designated take-off and landing area of a heliport. This surface is a horizontal plane at the elevation of the established heliport elevation.

(b) Heliport approach surface. The approach surface begins at each end of the heliport primary surface with the same width as the primary surface, and extends outward and upward for a horizontal distance of 4,000 feet where its width is 500 feet. The slope of the approach surface is 8 to 1 for civil heliports and 10 to 1 for military heliports.

(c) Heliport transitional surfaces. These surfaces extend outward and upward from the lateral boundaries of the heliport primary surface and from the approach surfaces at a slope of 2 to 1 for a distance of 250 feet measured horizontally from the centerline of the primary and approach surfaces.

Subpart D — Aeronautical Studies of Effect of Proposed Construction on Navigable Airspace

Sec. 77.31 Scope.
(a) This subpart applies to the conduct of aeronautical studies of the effect of proposed construction or alteration on the use of air navigation facilities or navigable airspace by aircraft. In the aeronautical studies, present and future IFR and VFR aeronautical operations and procedures are reviewed and any possible changes in those operations and procedures and in the construction proposal that would eliminate or alleviate the conflicting demands are ascertained.

(b) The conclusion of a study made under this subpart is normally a determination as to whether the specific proposal studied would be a hazard to air navigation.


Sec. 77.33 Initiation of Studies.
(a) An aeronautical study is conducted by the FAA:

(1) Upon the request of the sponsor or any construction or alteration for which a notice is submitted under Subpart B of this part, unless that construction or alteration would be located within an antenna farm area established under Subpart F of this part; or

(2) Whenever the FAA determines it appropriate.


Sec. 77.35 Aeronautical Studies.
(a) The Regional Manager, Air Traffic Division of the region in which the proposed construction or alteration would be located, or his designee, conducts the aeronautical study of the effect of the proposal upon the operation of air navigation facilities and the safe and efficient utilization of the navigable airspace. This study may include the physical and electromagnetic radiation effect the proposal may have on the operation of an air navigation facility.

(b) To the extent considered necessary, the Regional Manager, Air Traffic Division or his designee:

(1) Solicits comments from all interested persons;

(2) Explores objections to the proposal and attempts to develop recommendations for adjustment of aviation requirements that would accommodate the proposed construction or alteration;
(3) Examines possible revisions of the proposal that would eliminate the exceeding of the standards in Subpart C of this part; and

(4) Convenes a meeting with all interested persons for the purpose of gathering all facts relevant to the effect of the proposed construction or alteration on the safe and efficient utilization of the navigable airspace.

c The Regional Manager, Air Traffic Division or his designee issues a determination as to whether the proposed construction or alteration would be a hazard to air navigation and sends copies to all known interested persons. This determination is final unless a petition for review is granted under Sec. 77.37.

d If the sponsor revises his proposal to eliminate exceeding of the standards of Subpart C of this part, or withdraws it, the Regional Manager, Air Traffic Division, or his designee, terminates the study and notifies all known interested persons.


Sec. 77.37 Discretionary Review.

(a) The sponsor of any proposed construction or alteration or any person who stated a substantial aeronautical objection to it in an aeronautical study, or any person who has a substantial aeronautical objection to it but was not given an opportunity to state it, may petition the Administrator, within 30 days after issuance of the determination under Sec. 77.19 or Sec. 77.35 or revision or extension of the determination under Sec. 77.39(c), for a review of the determination, revision, or extension. This paragraph does not apply to any acknowledgment issued under Sec. 77.19(c)(1).

(b) The petition must be in triplicate and contain a full statement of the basis upon which it is made.

(c) The Administrator examines each petition and decides whether a review will be made and, if so, whether it will be:

(1) A review on the basis of written materials, including study of a report by the Regional Manager, Air Traffic Division of the aeronautical study, briefs, and related submissions by any interested party, and other relevant facts, with the Administrator affirming, revising, or reversing the determination issued under Sec. 77.19, Sec. 77.35 or Sec. 77.39(c); or

(2) A review on the basis of a public hearing, conducted in accordance with the procedures prescribed in Subpart E of this part.

Sec. 77.39  Effective Period of Determination of No Hazard.

(a) Unless it is otherwise extended, revised, or terminated, each final determination of no hazard made under this subpart or Subpart B or E of this part expires 18 months after its effective date, regardless of whether the proposed construction or alteration has been started, or on the date the proposed construction or alteration is abandoned, whichever is earlier.

(b) In any case, including a determination to which paragraph (d) of this section applies, where the proposed construction or alteration has not been started during the applicable period by actual structural work, such as the laying of a foundation, but not including excavation, any interested person may, at least 15 days before the date the final determination expires, petition the FAA official who issued the determination to:

(1) Revise the determination based on new facts that change the basis on which it was made; or

(2) Extend its effective period.

(c) The FAA official who issued the determination reviews each petition presented under paragraph (b) of this section, and revises, extends, or affirms the determination as indicated by his findings.

(d) In any case in which a final determination made under this subpart or Subpart B or E of this part relates to proposed construction or alteration that may not be started unless the Federal Communications Commission issues an appropriate construction permit, the effective period of each final determination includes—

(1) The time required to apply to the Commission for a construction permit, but not more than 6 months after the effective date of the determination; and

(2) The time necessary for the Commission to process the application except in a case where the Administrator determines a shorter effective period is required by the circumstances.

(e) If the Commission issues a construction permit, the final determination is effective until the date prescribed for completion of the construction. If the Commission refuses to issue a construction permit, the final determination expires on the date of its refusal.

Subpart E — Rules of Practice for Hearings Under Subpart D

Sec. 77.41 Scope.
This subpart applies to hearings held by the FAA under Titles I, III, and X of the Federal Aviation Act of 1958 (49 U.S.C. Subchapters I, III, and X), on proposed construction or alteration that affects the use of navigable airspace.

Sec. 77.43 Nature of Hearing.
Sections 4, 5, 7, and 8 of the Administrative Procedure Act (5 U.S.C. 1003, 1004, 1006, and 1007) do not apply to hearings held on proposed construction or alteration to determine its effect on the safety of aircraft and the efficient use of navigable airspace because those hearings are fact-finding in nature. As a fact-finding procedure, each hearing is nonadversary and there are no formal pleadings or adverse parties.

Sec. 77.45 Presiding Officer.
(a) If, under Sec. 79.37, the Administrator grants a public hearing on any proposed construction or alteration covered by this part, the Director, Air Traffic Operations Service designates an FAA employee to be the presiding officer at the hearing.

(b) The presiding officer may:

(1) Give notice of the date and location of the hearing and any prehearing conference that may be held;
(2) Administer oaths and affirmations;
(3) Examine witnesses;
(4) Issue subpoenas and take depositions or have them taken;
(5) Obtain, in the form of a public record, all pertinent and relevant facts relating to the subject matter of the hearing;
(6) Rule, with the assistance of the legal officer, upon the admissibility of evidence;
(7) Regulate the course and conduct of the hearing; and
(8) Designate parties to the hearing and revoke those designations.

Sec. 77.47 Legal Officer.
The Chief Counsel designates a member of his staff to serve as legal officer at each hearing under this subpart. The legal officer may examine witnesses and assist and advise the presiding officer on questions of evidence or other legal questions arising during the hearing.


Sec. 77.49 Notice of Hearing.
In designating a time and place for a hearing under this subpart the presiding officer considers the needs of the FAA and the convenience of the parties and witnesses. The time and place of each hearing is published in the “Notices” section of the Federal Register before the date of the hearing, unless the notice is impractical or unnecessary.

Sec. 77.51 Parties to the Hearing.
The presiding officer designates the following as parties to the hearing—

(a) The proponent of the proposed construction or alteration.

(b) Those persons whose activities would be substantially affected by the proposed construction or alteration.

Sec. 77.53 Prehearing Conference.
(a) The presiding officer may, in his discretion, hold a prehearing conference with the parties to the hearing and the legal officer before the hearing.

(b) At the direction of the presiding officer, each party to a prehearing conference shall submit a brief written statement of the evidence he intends to provide through his witnesses and by questioning other witnesses at the hearing, and shall provide enough copies of the statement so that the presiding officer may keep three for the FAA and give one to each other party.

(c) At the prehearing conference, the presiding officer reduces and simplifies the subject matter of the hearing so far as possible and advises the parties of the probable order of presenting the evidence.
**Sec. 77.55 Examination of Witnesses.**

(a) Each witness at a hearing under this subpart shall, after being sworn by the presiding officer, give his testimony under oath.

(b) The party for whom a witness, other than an employee of the FAA, is testifying shall examine that witness. After that examination, other parties to the hearing may examine the witness, in the order fixed by the presiding officer. The presiding officer and the legal officer may then examine the witness. The presiding officer may grant any party an additional opportunity to examine any witness, if that party adequately justifies the additional examination.

(c) The legal officer examines each FAA employee who is a witness, before the other parties examine him. After that examination, the order prescribed in paragraph (b) of this section applies. An FAA employee may testify only as to facts within his personal knowledge and the application of FAA regulations, standards, and policies.

**Sec. 77.57 Evidence.**

(a) The presiding officer receives all testimony and exhibits that are relevant to the issues of the hearing. So far as possible, each party shall submit enough copies of his exhibits that the presiding officer may keep three copies for the FAA and give one to each other party.

(b) The presiding officer excludes any testimony that is irrelevant, unduly repetitious, or consists of statements made during an aeronautical study in an effort to reconcile or compromise aviation or construction or alteration requirements. A party to the hearing may object to the admission of evidence only on the ground that it is irrelevant.

**Sec. 77.59 Subpoenas of Witnesses and Exhibits.**

(a) The presiding officer of a hearing may issue subpoenas for any witness or exhibit that he determines may be material and relevant to the issues of the hearing. So far as possible, each party to the hearing shall provide the witnesses and exhibits that he intends to present at the hearing.

(b) If any party to the hearing is unable to provide his necessary witnesses and exhibits, he shall advise the presiding officer far enough in advance that the presiding officer can determine whether he should issue subpoenas for the desired witnesses or exhibits.

**Sec. 77.61 Revision of Construction or Alteration Proposal.**

(a) The sponsor of any proposed construction or alteration covered by this part may revise his proposal at any time before or during the hearing. If he revises it, the presiding officer decides whether the revision affects the proposal to the extent that he should send it to the Administrator for a redetermination of the need for a hearing.
(b) If the presiding officer decides that it does not need to be resubmitted to the Administrator, he advises the parties of the revised proposal and takes the action necessary to allow all parties to effectively participate in the hearing on the revised proposal. Without limiting his discretion, the presiding officer may recess and reconvene the hearing, or hold another prehearing conference.

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**Sec. 77.63 Record of Hearing.**

(a) Each hearing is recorded verbatim by an official reporter under an FAA contract. The transcript, and all exhibits, become a part of the record of the hearing.

(b) Any person may buy a copy of the transcript of the hearing from the reporter at the price fixed for it.

(c) The presiding officer may allow any party to withdraw an original document if he submits authenticated copies of it.

(d) Any person may buy, from the FAA, photostatic copies of any exhibit by paying the copying costs.

(e) A change in the official transcript of a hearing may be made only if it involves an error of substance. Any recommendation to correct the transcript must be filed with the presiding officer within 5 days after the hearing closes. The presiding officer reviews each request for a correction to the extent he considers appropriate and shall make any revisions that he finds appropriate as a result of that review.

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**Sec. 77.65 Recommendations by Parties.**

Within 20 days after the mailing of the record of hearing by the official reporter, or as otherwise directed by the presiding officer, each party may submit to the presiding officer five copies of his recommendations for a final decision to be made by the Administrator.

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**Sec. 77.67 Final Decision of the Administrator.**

After reviewing the evidence relevant to the questions of fact in a hearing, including the official transcript and the exhibits, the Administrator resolves all these questions, based on the weight of evidence, and makes his determination, stating the basis and reasons for it. He then issues an appropriate order to be served on each of the parties.
Sec. 77.69  Limitations on Appearance and Representation.

(a) A former officer or employee of the FAA may not appear on behalf of, or represent, any party before the FAA in connection with any matter to which this part applies, if he considered or passed on that matter while he was an officer or employee of the FAA.

(b) A person appearing before the FAA on any matter to which this part applies may not, in connection with that appearance, knowingly accept assistance from, or share fees with, any person who is prohibited by paragraph (a) of this section, from appearing himself on that matter.

(c) A former official or employee of the FAA may not, within 6 months after he ceases to be such an officer or employee, appear before the FAA on behalf of, or represent, any party in connection with any proceeding that was pending under this part while he was an officer or employee of the FAA, unless he obtains written consent from an appropriate officer of the FAA, based on a verified showing that he did not personally consider the matter concerned or gain particular knowledge of it while he was an officer or employee of the FAA.
Subpart F — Establishment of Antenna Farm Areas

Sec. 77.71 Scope.
(a) This subpart establishes antenna farm areas in which antenna structures may be grouped to localize their effect on the use of navigable airspace.
(b) It is the policy of the FAA to encourage the use of antenna farms and the single structure-multiple antenna concept for radio and television towers whenever possible. In considering proposals for establishing antenna farm areas, it considers as far as possible the revision of aeronautical procedures and operations to accommodate antenna structures that will fulfill broadcasting requirements.

Sec. 77.73 General Provisions.
(a) An antenna farm area consists of a specified geographical location with established dimensions of area and height, where antenna towers with a common impact on aviation may be grouped. Each such area is established by appropriate rule making action.
(b) Each proposal for an antenna farm area is evaluated on the basis of its effect on the use of navigable airspace. The views of the Federal Communications Commission are requested on the effect that each establishment of an antenna farm area would have on its statutory responsibilities. Any views submitted by it are fully considered before the antenna farm concerned is established. If the Commission advises that the establishment of any proposed antenna farm area would interfere with its statutory responsibility, the proposed area is not established.
(c) The establishment of an antenna farm area is considered whenever it is proposed by:
   (1) The FAA;
   (2) The Federal Communications Commission;
   (3) The sponsor of a proposed antenna tower; or
   (4) Any other person having a substantial interest in a proposed antenna tower.


Sec. 77.75 Establishment of Antenna Farm Areas.
The airspace areas described in the following sections of this subpart are established as antenna farm areas.

Note: Sections 77.77 through 77.1100 reserved for descriptions of antenna farm areas.

FIGURE C-1
FAR PART 77 IMAGINARY SURFACES

FIGURE B-2
NOTIFICATION OF PROPOSED CONSTRUCTION OR ALTERATION (FAA FORM 7460)

<table>
<thead>
<tr>
<th>Notice of Proposed Construction or Alteration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Sponsor (person, company, etc. proposing this alteration):</td>
</tr>
<tr>
<td>Name:</td>
</tr>
<tr>
<td>Address:</td>
</tr>
<tr>
<td>City:</td>
</tr>
<tr>
<td>State:</td>
</tr>
<tr>
<td>Zip:</td>
</tr>
<tr>
<td>Telephone:</td>
</tr>
<tr>
<td>Fax:</td>
</tr>
<tr>
<td>2. Sponsor's Representative (if other than #1):</td>
</tr>
<tr>
<td>Name:</td>
</tr>
<tr>
<td>Address:</td>
</tr>
<tr>
<td>City:</td>
</tr>
<tr>
<td>State:</td>
</tr>
<tr>
<td>Zip:</td>
</tr>
<tr>
<td>Telephone:</td>
</tr>
<tr>
<td>Fax:</td>
</tr>
<tr>
<td>3. Notice of: [ ] New Construction [ ] Alteration [ ] Existing</td>
</tr>
<tr>
<td>4. Duration: [ ] Permanent [ ] Temporary (months, days)</td>
</tr>
<tr>
<td>5. Work Schedule: Beginning ___________ End ___________</td>
</tr>
<tr>
<td>6. Type: [ ] Antenna Tower [ ] Crane [ ] Building [ ] Power Line</td>
</tr>
<tr>
<td>[ ] Landfill [ ] Vapor Tank [ ] Other [ ]</td>
</tr>
<tr>
<td>7. Markings/Painting and/or Lighting Preferred:</td>
</tr>
<tr>
<td>[ ] Red Lights and Paint [ ] Dual-R. and Medium Intensity White</td>
</tr>
<tr>
<td>[ ] White - Medium Intensity [ ] Dual-R. and High Intensity White</td>
</tr>
<tr>
<td>[ ] White - High Intensity [ ] Other [ ]</td>
</tr>
<tr>
<td>8. FCC Antenna Structure Registration Number (if applicable):</td>
</tr>
</tbody>
</table>

| 9. Latitude: ° ' '' |
| 10. Longitude: ° ' '' |
| 11. Datum: [ ] NAD 83 [ ] NAD 27 [ ] Other [ ] |
| 12. Nearest City: |
| 13. Nearest Public Use (not private-use) Airport or Helipad |
| 14. Distance from #13 to Structure: |
| 15. Direction from #13 to Structure: |
| 16. Site Elevation (MSL): ___________ ft |
| 17. Total Structure Height (AGL): ___________ ft |
| 18. Overall height (#16 + #17) (AGL): ___________ ft |
| 19. Previous FAA Aeronautical Study Number (if applicable): |

| 20. Description of Location: (Attach a USGS 7.5-minute Quadrangle Map with precise site marked and any certified survey) |

| 21. Complete Description of Proposal: |

| Frequency/Power (kW): |

Notice is required by 14 Code of Federal Regulations, part 77 pursuant to 46 U.S.C., Section 44718. Persons who knowingly and willingly violate the notice requirements of part 77 are subject to a civil penalty of $1,000 per day until the notice is received, pursuant to 46 U.S.C., section 40501(a).

I hereby certify that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to mark and/or light the structure in accordance with established marking and lighting standards as necessary.

| Data | Typed or Printed name and Title of Person Filing Notice | Signature |

Appendix D
Methods for Determining Concentrations of People
APPENDIX D
Methods for Determining Concentrations of People

Introduction

The underlying compatibility criterion used in this ALUCP is “usage intensity”, or more specifically, the maximum number of people per acre that can be present in a given location at any given time. Actions considered “incompatible” with the compatibility planning policies in this ALUCP would be uses that exceed the maximum intensity. Usage intensity is identified in the California Airport Land Use Planning Handbook (Caltrans, January 2002) as the means best suited for assessing land use safety compatibility for airports. Recognition, however, must be given to the fact that “people per acre” is not a common measure employed in other facets of land use planning. As such, this ALUCP utilizes the more common measure of floor area ratio (FAR) as a means of applying usage criteria.

Counting People

Determining the number of people expected to use a facility at a single point in time involves estimating not just employees, but customers and visitors as well. Exceptions can be made in rare situations when a facility is used for an event it is not designed for (i.e., when a parking lot is used for a fairground), and it is expected that extra precautions be taken as appropriate.

In ideal situations, the actual or intended number of people for which a facility is designed would be known. However, many buildings are constructed without a specific number of occupants in mind, and the use of the site remains unknown until a tenant is found. Other uses can further compound the question of usage intensity when they are open, or have no fixed seating, like malls and athletic fields for example.

Given the lack of measurable occupancy numbers, other sources can be used to determine the number of people in a proposed development.

- Parking Ordinance: The number of people present in a given area can be calculated based upon the number of parking spaces provided. Some assumption regarding the number of people per vehicle needs to be developed to calculate the number of people on-site. The number of people per acre can then be calculated by dividing the number of people on-site by the size of the parcel in acres. This approach is appropriate where the use is expected to be dependent upon access by vehicles. Depending upon the specific
assumptions utilized, this methodology typically results in a number in the low end of the likely intensity for a given land use.

- **Maximum Occupancy**: The Uniform or California Building Code (CBC) can be used as a standard for determining the maximum occupancy of certain uses. The chart provided in Table D-1 indicates the required number of square feet per occupant. The number of people on the site can be calculated by dividing the total floor area of a proposed use by the minimum square feet per occupant requirement listed in the table.

Sample calculations based upon parking space requirements and the Uniform Building Code are provided in Exhibit D-1.

**Calculating Usage Intensities**

Once the number of people expected to be present over an entire site has been estimated, the usage intensity can be determined. The criteria presented in Chapter 3 of this ALUCP were developed in terms of average intensity over the project site as a whole.

The average intensity is developed by dividing the total number of people expected to use a site by the size of the site itself (e.g., 400 people / 5 acre site = average intensity of 80 people per acre). Once the average usage intensity of a proposed project has been determined, the results can be compared with the criteria set forth in this ALUCP in order to determine consistency.

**Calculating Floor Area Ratio**

Floor area ration (FAR), the gross square footage of the building(s) on a site divided by the site size, is a more common measure in land use planning than usage intensity calculations. As such, FAR criteria, as seen in Table 3-2, were integrated into this ALUCP in order to establish usage intensity limits for various types of nonresidential land uses.

FAR, however, does not directly relate to the underlying issue of risk due to the fact that the FAR for different types of buildings can be the same despite their level of use (e.g., a warehouse versus a restaurant). Therefore, in order to make FAR applicable to land use compatibility planning, a connection between usage intensity and FAR needed to be established. To achieve this, assumptions, rooted in the CBC, were made as to how much square footage a person may occupy in a given building (see Table D-1). Once this was determined, the following equation was applied to determine the FAR for a given nonresidential use:

\[
FAR = \frac{(\text{allowable usage intensity}) \times (\text{occupancy load factor})}{43,560 \text{ sq. feet per acre}}
\]

In this equation, usage intensity is understood in terms of people per acre, and occupancy load factor as square feet per person. The guideline for determining usage intensity numbers is found in the Handbook (see Appendix C), and the occupancy levels were provided in the CBC (see Table D-2). The FAR limits were calculated from these two numbers using the formula above.
EXHIBIT D-1

Example 1

Proposed Development: Two office buildings, each two stories and containing 20,000 square feet of floor area per building. Site size is 3.0 net acres. Counting a portion of the adjacent road, the gross area of the site is 3.5 acres.

A. Calculation Based on Parking Space Requirements

For office uses, assume that a county or city parking ordinance requires 1 parking space for every 300 square feet of floor area. Data from traffic studies or other sources can be used to estimate the average vehicle occupancy. For the purposes of this example, the number of people on the property is assumed to equal 1.5 times the number of parking spaces.

The average usage intensity would therefore be calculated as follows:

1) 40,000 sq. ft. floor area x 1.0 parking space per 300 sq. ft. = 134 required parking spaces
2) 134 parking spaces x 1.5 people per space = 200 people maximum on site
3) 200 people / 3.5 acres gross site size = 57 people per acre average for the site

Assuming that occupancy of each building is relatively equal throughout, but that there is some separation between the buildings and outdoor uses are minimal, the usage intensity for a single acre would be estimated to be:

1) 20,000 sq. ft. bldg. / 2 stories = 10,000 sq. ft. bldg. footprint
2) 10,000 sq. ft. bldg. footprint / 4,350 sq. ft. per acre = 0.35 acre bldg. footprint
3) Building footprint < 1.0 acre, therefore maximum people in 1 acre = bldg. occupancy = 100 people per single acre

B. Calculation Based on Uniform Building Code

Using the UBC (Appendix C1) as the basis for estimating building occupancy yields the following results for the above example:

1) 40,000 sq. ft. bldg. / 100 sq. ft./occupant = 400 people max. bldg. occupancy (under UBC)
2) 400 max. bldg. occupancy x 50% adjustment = 200 people maximum on site
3) 200 people / 3.5 acres gross site size = 57 people per acre average for the site

Conclusions: In this instance, both methodologies give the same results. For different uses and/or different assumptions, the two methodologies are likely to produce different numbers. In most such cases, the UBC methodology will indicate a higher intensity.
EXHIBIT D-1 CONT.

Example 2

Proposed Development: Single-floor furniture store containing 24,000 square feet of floor area on a site of 1.7 net acres. Counting a portion of the adjacent road, the gross area of the site is 2.0 acres.

A. Calculation Based on Parking Space Requirements

For furniture stores, the county requires 1 parking space per 400 square feet of use area. Assuming 1.5 people per automobile, the average usage intensity would be:

1) 24,000 sq. ft. bldg. x 1.0 parking space per 400 sq. ft. = 60 required parking spaces
2) 60 parking spaces x 1.5 people per space = 90 people maximum on site
3) 90 people + 1.25 acres gross site size = 72 people per acre average for the site

Again assuming a relatively balanced occupancy throughout the building and that outdoor uses are minimal, the usage intensity for a single acre would be estimated to be:

1) 24,000 sq. ft. bldg. footprint ÷ 43,560 sq. ft. per acre = 0.55 acre bldg. footprint
2) Building footprint < 1.0 acre; therefore maximum people in 1 acre = bldg. occupancy = 90 people per single acre

B. Calculation Based on Uniform Building Code

For the purposes of the UBC-based methodology, the furniture store is assumed to be consist of 50% retail sales floor (at 30 square feet per occupant) and 50% warehouse (at 500 square feet per occupant). Usage intensities would therefore be estimated as follows:

1) 12,000 sq. ft. retail floor area ÷ 30 sq. ft. occupant = 400 people max. occupancy in retail area
2) 12,000 sq. ft. warehouse floor area ÷ 500 sq. ft. occupant = 24 people max. occupancy in warehouse area
3) Maximum occupancy under UBC assumptions = 400 + 24 = 424 people
4) Assuming typical peak occupancy is 50% of UBC numbers = 212 people maximum expected at any one time
5) 212 people ÷ 1.25 acres = 168 people per acre average for the site

With respect to the single-acre intensity criteria, the entire building occupancy would again be within less than 1.0 acre, thus yielding the same intensity of 168 people per single acre.

Conclusions: In this instance, the two methods produce very different results. The occupancy estimate of 30 square feet per person is undoubtedly low for a furniture store even after the 50% adjustment. The 72 people-per-acre estimate using the parking requirement methodology is probably closer to being realistic. As part of the general plan consistency process, ALUCs and local jurisdictions should decide which method or combination of methods is to be used in reviewing development proposals.

### TABLE D-1

**OCCUPANCY LEVELS – CALIFORNIA BUILDING CODE**

<table>
<thead>
<tr>
<th>Use</th>
<th>Minimum Square Feet per Occupant</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aircraft Hangars (no repair)</td>
<td>500</td>
</tr>
<tr>
<td>2. Auction Rooms</td>
<td>7</td>
</tr>
<tr>
<td>3. Assembly Areas, Concentrated Use Without Fixed Seats (auditoriums,</td>
<td></td>
</tr>
<tr>
<td>churches, dance floors, lobby accessory to assembly occupancy, lobby</td>
<td></td>
</tr>
<tr>
<td>rooms, reviewing stands, stadiums, waiting areas)</td>
<td>7</td>
</tr>
<tr>
<td>4. Assembly Areas, Less Concentrated Use (conference rooms, dining</td>
<td></td>
</tr>
<tr>
<td>rooms, drinking establishments, exhibit rooms, gymnasiums, lounges,</td>
<td></td>
</tr>
<tr>
<td>stages)</td>
<td>15</td>
</tr>
<tr>
<td>Gaming</td>
<td>11</td>
</tr>
<tr>
<td>5. Bowling Alley (assume no occupant load for bowling lanes)</td>
<td>4</td>
</tr>
<tr>
<td>6. Children's Homes and Homes for the Aged</td>
<td>80</td>
</tr>
<tr>
<td>7. Classrooms</td>
<td>20</td>
</tr>
<tr>
<td>8. Congregate Residences</td>
<td>200</td>
</tr>
<tr>
<td>9. Courtrooms</td>
<td>40</td>
</tr>
<tr>
<td>10. Dormitories</td>
<td>50</td>
</tr>
<tr>
<td>11. Dwellings</td>
<td>300</td>
</tr>
<tr>
<td>12. Exercising Rooms</td>
<td>50</td>
</tr>
<tr>
<td>13. Garage, Parking</td>
<td>200</td>
</tr>
<tr>
<td>14. Health-Care Facilities</td>
<td></td>
</tr>
<tr>
<td>Sleeping Rooms</td>
<td>80</td>
</tr>
<tr>
<td>Treatment Rooms</td>
<td>120</td>
</tr>
<tr>
<td>15. Hotels and Apartments</td>
<td>200</td>
</tr>
<tr>
<td>16. Kitchen - Commercial</td>
<td>200</td>
</tr>
<tr>
<td>17. Library Reading Room</td>
<td>50</td>
</tr>
<tr>
<td>Stack Areas</td>
<td>100</td>
</tr>
<tr>
<td>18. Locker Rooms</td>
<td>50</td>
</tr>
<tr>
<td>19. Malls</td>
<td>Varies</td>
</tr>
<tr>
<td>20. Manufacturing Areas</td>
<td>200</td>
</tr>
<tr>
<td>21. Mechanical Equipment Room</td>
<td>300</td>
</tr>
<tr>
<td>22. Nurseries for Children (Daycare)</td>
<td>35</td>
</tr>
<tr>
<td>23. Offices</td>
<td>100</td>
</tr>
<tr>
<td>24. School Shops and Vocational Rooms</td>
<td>50</td>
</tr>
<tr>
<td>25. Skating Rinks</td>
<td>50 on the skating area; 15 on the deck</td>
</tr>
<tr>
<td>26. Storage and Stock Rooms</td>
<td>300</td>
</tr>
<tr>
<td>27. Stores - Retail Sales Rooms</td>
<td></td>
</tr>
<tr>
<td>Basements and Ground Floors</td>
<td>30</td>
</tr>
<tr>
<td>Upper Floors</td>
<td>60</td>
</tr>
<tr>
<td>28. Swimming Pools</td>
<td>50 for the pool area; 15 on the deck</td>
</tr>
<tr>
<td>29. Warehouses</td>
<td>500</td>
</tr>
<tr>
<td>30. All Others</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: *California Building Code* (2001), Table 10-A.
<table>
<thead>
<tr>
<th>Group and Division</th>
<th>CBC Section</th>
<th>Description of Occupancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>303.1.1</td>
<td>A building or portion of a building having an assembly room with an occupant load of 1,000 or more and a legitimate stage.</td>
</tr>
<tr>
<td>A-2</td>
<td>303.1.1</td>
<td>A building or portion of a building having an assembly room with an occupant load of less than 1,000 and a legitimate stage.</td>
</tr>
<tr>
<td>A-2.1</td>
<td></td>
<td>A building or portion of a building having an assembly room with an occupant load of 300 or more without a legitimate stage, including such buildings used for educational purposes and not classed as a Group E or Group B Occupancy.</td>
</tr>
<tr>
<td>A-3</td>
<td>303.1.1</td>
<td>A building or portion of a building having an assembly room with an occupant load of less than 300 without a legitimate stage, including such buildings used for educational purposes and not classed as a Group E or Group B Occupancy.</td>
</tr>
<tr>
<td>A-4</td>
<td>303.1.1</td>
<td>Stadiums, reviewing stands and amusement park structures not included within other Group A Occupancies.</td>
</tr>
<tr>
<td>B</td>
<td>304.1</td>
<td>A building or structure, or a portion thereof, for office, professional, or service-type transactions, including storage of records and accounts; eating establishments and drinking establishments with an occupant load of less than 50.</td>
</tr>
<tr>
<td>E-1</td>
<td>305.1</td>
<td>Any building used for educational purposes through the 12th grade by 50 or more persons for more than 12 hours per week or four hours in any one day.</td>
</tr>
<tr>
<td>E-2</td>
<td>305.1</td>
<td>Any building used for educational purposes through the 12th grade by less than 50 persons for more than 12 hours per week or four hours in any one day.</td>
</tr>
<tr>
<td>F-2</td>
<td>306.1</td>
<td>Low-hazard factory and industrial occupancies include factory and industrial uses not classified in as Group F, Division 2 Occupancies.</td>
</tr>
<tr>
<td>F-2</td>
<td>306.1</td>
<td>Low-hazard factory and industrial occupancies include factory and industrial uses not classified in as Group F, Division 2 Occupancies.</td>
</tr>
<tr>
<td>H-1</td>
<td>307.1</td>
<td>Occupancies with a quantity of material in the building in excess of those listed in Table 3-D that present a high explosion hazard as listed in Section 307.1.1.</td>
</tr>
<tr>
<td>H-2</td>
<td>307.1</td>
<td>Occupancies with a quantity of material in the building in excess of those listed in Table 3-D that present a moderate explosion hazard as listed in Section 307.1.1.</td>
</tr>
<tr>
<td>H-3</td>
<td>307.1</td>
<td>Occupancies with a quantity of material in the building in excess of those listed in Table 3-D that present a high fire or physical hazard as listed in Section 307.1.1.</td>
</tr>
<tr>
<td>H-4</td>
<td>307.1</td>
<td>Repair garages not classified as Group S, Division 3 Occupancies.</td>
</tr>
<tr>
<td>H-5</td>
<td>307.1</td>
<td>Aircraft repair hangars not classified as Group S, Division 5 Occupancies and heliports.</td>
</tr>
<tr>
<td>H-6</td>
<td>307.1 and 307.11</td>
<td>Semiconductors fabrication facilities and comparable research and development areas where the facilities in which the hazardous production materials are used, and the aggregate quantity of the material is in excess of those listed in Table 3-D or 3-E.</td>
</tr>
<tr>
<td>H-7</td>
<td>307.1</td>
<td>Occupancies having quantities of materials in excess of those listed in Table 3-D that are health hazards as listed in Section 307.1.1.</td>
</tr>
<tr>
<td>I-1.1</td>
<td>308.1</td>
<td>Nurseries for the full-time care of children under the age of six (each accommodating more than five children), hospitals, sanitariums, nursing homes with nonambulatory patients and similar buildings (each accommodating more than 5 patients for SFM six patients or children).</td>
</tr>
<tr>
<td>I-1.2</td>
<td>308.1</td>
<td>Health-care centers for ambulatory patients receiving outpatient medical care which may render the patient incapable of unassisted self-preservation (each tenant space accommodating more than five such patients).</td>
</tr>
<tr>
<td>I-2</td>
<td>308.1</td>
<td>Nursing homes for ambulatory patients, homes for children six years of age or older (each accommodating more than five persons for SFM six patients or children).</td>
</tr>
<tr>
<td>I-3</td>
<td>308.1</td>
<td>Mental hospitals, mental sanitariums, jails, prisons, reformatories and buildings where personal liberties of inmates are similarly restrained.</td>
</tr>
<tr>
<td>M</td>
<td>309.1</td>
<td>A building or structure, or a portion thereof, for the display and sale of merchandise, and involving stocks of goods, wares or merchandise, incidental to such purposes and accessible to the public.</td>
</tr>
<tr>
<td>R-1</td>
<td>310.1</td>
<td>Hotels and apartment houses, congregate residences (each accommodating more than 10 persons).</td>
</tr>
<tr>
<td>R-2.1</td>
<td>310.1</td>
<td>Residential care facilities for the elderly (each accommodating more than six nonambulatory clients).</td>
</tr>
<tr>
<td>R-2.2</td>
<td>310.1</td>
<td>Residential care facilities for the elderly (each accommodating more than six ambulatory clients).</td>
</tr>
<tr>
<td>R-2.1.1</td>
<td>310.1</td>
<td>Residential care facilities for the elderly (each accommodating more than six nonambulatory clients).</td>
</tr>
<tr>
<td>R-2.2.1</td>
<td>310.1</td>
<td>Residential care facilities for the elderly (each accommodating more than six ambulatory clients).</td>
</tr>
<tr>
<td>R-2.3</td>
<td>310.1</td>
<td>Residential-based licensed facilities providing hospice care throughout, accommodating more than six bedridden clients.</td>
</tr>
<tr>
<td>R-2.3.1</td>
<td>310.1</td>
<td>Residential-based licensed facilities providing hospice care throughout, accommodating six or less bedridden clients.</td>
</tr>
<tr>
<td>R-3</td>
<td>310.1</td>
<td>Dwellings, lodging houses, congregate residences (each accommodating 10 or fewer persons).</td>
</tr>
<tr>
<td>S-1</td>
<td>311.1</td>
<td>Moderate-hazard storage occupancies including buildings or portions of buildings used for storage of combustible materials not classified as Group S, Division 2 or Group H Occupancies.</td>
</tr>
<tr>
<td>S-2</td>
<td>311.1</td>
<td>Low-hazard storage occupancies including buildings or portions of buildings used for storage of noncombustible materials.</td>
</tr>
<tr>
<td>S-3</td>
<td>311.1</td>
<td>Repair garages where work is limited to exchange of parts and maintenance not requiring open flame or welding, and parking garages not classified as Group S, Division 4 Occupancies.</td>
</tr>
<tr>
<td>S-4</td>
<td>311.1</td>
<td>Open parking garages.</td>
</tr>
<tr>
<td>S-5</td>
<td>311.1</td>
<td>Aircraft hangars and heliports.</td>
</tr>
<tr>
<td>U-1</td>
<td>312.1</td>
<td>Private garages, carports, sheds and agricultural buildings.</td>
</tr>
<tr>
<td>U-2</td>
<td>312.1</td>
<td>Fences over 6 feet (1829 mm) high, tanks and towers.</td>
</tr>
</tbody>
</table>

Source: California Building Code (2001), Table 3-A
Appendix E
Sample Implementation Documents
APPENDIX E
Sample Implementation Documents

The responsibility for implementation of the policies set forth in the compatibility plans adopted by airport land use commissions rests largely with the affected local jurisdictions. Implementation tools fall into the categories of notification and regulation. The state requires certain notification requirements effective January 1, 2004 (as a result of Assembly Bill 2776). Additional notification, in the form of a recorded deed notice, may also be appropriate. Regulation may take the form of individual property restrictions (avigation easements) or additional development controls in areas within the vicinity of an airport (an airport combining zone ordinance).

Required Notification—State law requires any person who intends to offer subdivided lands within California for sale or lease to file with the Department of Real Estate an application for a public report consisting of a notice of intention and a completed questionnaire. The notice shall include, for property within an AIA to include the following notice:

NOTICE OF AIRPORT IN VICINITY

This property is presently located in the vicinity of an airport, within what is known as an airport influence area. For that reason, the property may be subject to some of the annoyances or inconveniences associated with proximity to airport operations (for example: noise, vibration, or odors). Individual sensitivities to those annoyances can vary from person to person. You may wish to consider what airport annoyances, if any, are associated with the property before you complete your purchase and determine whether they are acceptable to you.

Recorded Deed Notice—Deed notices are a form of buyer awareness measure whose objective is to ensure that prospective buyers of airport area property, particularly residential property, are informed about the airport’s impact on the property. Unlike easements, deed notices do not convey property rights from the property owner to the airport and do not restrict the height of objects. They only document the existence of certain conditions which affect the property—such as the proximity of the airport and common occurrence of aircraft overflights at or below the airport traffic pattern altitude. ALUCs may make recording of deed notices a requirement for project approval within portions of the airport influence area where avigation easements are not essential. Included in this Appendix is sample of a deed notice (from the California Airport Land Use Planning Handbook, 2002).
Avigation Easement—Avigation easements transfer certain property rights from the owner of the underlying property to the owner of an airport. ALUCs may require avigation easement dedication as a condition for approval of development on property subject to high noise levels or a need to restrict heights of structures and trees to less than what might ordinarily occur on the property. Also, airports may require avigation easements in conjunction with programs for noise insulation of existing structures in the airport vicinity. Included in this Appendix is a sample avigation easement (from the California Airport Land Use Planning Handbook, 2002).

Airport Combining Zone Ordinance—An additional type of implementation document available to local jurisdictions is an airport combining zone ordinance. Possible components for such an ordinance are described in Table E-1.

### TABLE E-1
**POSSIBLE AIRPORT COMBINING ZONE COMPONENTS**

An airport compatibility combining zoning ordinance might include some or all of the following components:

- **Airspace Protection**—A combining district can establish restrictions on the height of buildings, antennas, trees, and other objects as necessary to protect the airspace needed for operation of the airport. These restrictions should be based upon the current version of Federal Aviation Regulations (FAR) Part 77, Objects Affecting Navigable Airspace, Subpart C. Additions or adjustment to take into account instrument approach (TERPS) surfaces should be made as necessary. Provisions prohibiting smoke, glare, bird attractions, and other hazards to flight should also be included.

- **FAA Notification Requirements**—Combining districts also can be used to ensure that project developers are informed about the need for compliance with the notification requirements of FAR Part 77. Subpart B of the regulations requires that the proponent of any project which exceeds a specified set of height criteria submit a Notice of Proposed Construction or Alteration (Form 7460-1) to the Federal Aviation Administration prior to commencement of construction. The height criteria associated with this notification requirement are lower than those spelled out in Part 77, Subpart C, which define airspace obstructions. The purpose of the notification is to determine if the proposed construction would constitute a potential hazard or obstruction to flight. Notification is not required for proposed structures that would be shielded by existing structures or by natural terrain of equal or greater height, where it is obvious that the proposal would not adversely affect air safety.

- **Maximum Densities/Intensities**—Airport noise and safety compatibility criteria are frequently expressed in terms of dwelling units per acre for residential uses and people per acre for other land uses. These standards can either be directly included in a combining zone or used to modify the underlying land use designations. For residential land uses, the correlation between the compatibility criteria and land use designations is direct. For other land uses, the method of calculating the intensity limitations needs to be defined. Alternatively, a matrix can be established indicating whether each specific type of land use is compatible with each compatibility zone. To be useful, the land use categories need to be more detailed than typically provided by general plan or zoning ordinance land use designations.

- **Open Areas for Emergency Landing of Aircraft**—In most circumstances in which an accident involving a small aircraft occurs near an airport, the aircraft is under control as it descends. When forced to make an off-airport emergency landing, pilots will usually attempt to do so in the most open area readily available. To enhance safety both for people on the ground and the occupants of aircraft, airport compatibility plans often contain criteria requiring a certain amount of open land near airports. These criteria are most effectively carried out by planning at the general or specific plan level, but may also need to be included in a combining district so that they will be applied to development of large parcels. Adequate open areas can often be provided by clustering of development on adjacent land.
TABLE E-1
POSSIBLE AIRPORT COMBINING ZONE COMPONENTS

An airport compatibility combining zoning ordinance might include some or all of the following components:

- **State Regulation of Obstructions**—State law prohibits anyone from constructing or altering a structure or permitting an object of natural growth to exceed the heights established by FAR Part 77, Subpart C, unless the FAA has determined the object would not or does not constitute a hazard to air navigation (Public Utilities Code, Section 21659). Additionally, a permit from the Department of Transportation is required for any structure taller than 500 feet above the ground unless the height is reviewed and approved by the Federal Communications Commission or the FAA (Section 21656).

- **Designation of High Noise-Impact Areas**—California state statutes require that multi-family residential structures in high-noise exposure areas be constructed so as to limit the interior noise to a Community Noise Equivalent Level of no more than 45 dB. A combining district could be used to indicate the locations where special construction techniques may be necessary in order to ensure compliance with this requirement. The combining district also could extend this criterion to single-family dwellings.

- **Areas of Special Compatibility Concern**—A significant drawback of standard general plan and zoning ordinance land use designations is that they can be changed. Uses that are currently compatible are not assured of staying that way in the future. Designation of areas of special compatibility concern would serve as a reminder that airport impacts should be carefully considered in any decision to change the existing land use designation. [A legal consideration which supports the value of this concept is that down-zoning of a property to a less intensive use is becoming more difficult. It is much better not to have inappropriately up-zoned the property in the first place.]

- **Real Estate Disclosure Policies**—The geographic extent and specific language of recommended real estate disclosure statements can be described in an airport combining zone ordinance.

Sample Avigation Easement

This indenture made this _____ day of __________, 20___, between____________________ herein after referred to as Grantor, and the [Insert County or City name], a political subdivision in the State of California, hereinafter referred to as Grantee. The Grantor, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant to the Grantee, its successors and assigns, a perpetual and assignable easement over the following described parcel of land in which the Grantor holds a fee simple estate. The property which is subject to this easement is depicted as _________________ on “Exhibit A” attached and is more particularly described as follows:

[Insert legal description of real property] The easement applies to the Airspace above an imaginary plane over the real property. The plane is described as follows:

The imaginary plane above the hereinbefore described real property, as such plane is defined by Part 77 of the Federal Aviation Regulations, and consists of a plane [describe approach, transition, or horizontal surface]; the elevation of said plane being based upon the ___________ Airport official runway end elevation of ________ feet Above Mean Sea Level (AMSL), as determined by [Insert name and Date of Survey or Airport Layout Plan that determines the elevation] the approximate dimensions of which said plane are described and shown on Exhibit A attached hereto and incorporated herein by reference.
The aforesaid easement and right-of-way includes, but is not limited to:

1) For the use and benefit of the public, the easement and continuing right to fly, or cause or permit the flight by any and all persons, or any aircraft, of any and all kinds now or hereafter known, in, through, across, or about any portion of the Airspace hereinabove described; and

2) The easement and right to cause or create, or permit or allow to be caused or created within all space above the existing surface of the hereinabove described real property and any and all Airspace laterally adjacent to said real property, such noise, vibration, currents and other effects of air, illumination, and fuel consumption as may be inherent in, or may arise or occur from or during the operation of aircraft of any and all kinds, now or hereafter known or used, for navigation of or flight in air; and

3) A continuing right to clear and keep clear from the Airspace any portions of buildings, structures, or improvements of any kinds, and of trees or other objects, including the right to remove or demolish those portions of such buildings, structures, improvements, trees, or other things which extend into or above said Airspace, and the right to cut to the ground level and remove, any trees which extend into or above the Airspace; and

4) The right to mark and light, or cause or require to be marked or lighted, as obstructions to air navigation, any and all buildings, structures, or other improvements, and trees or other objects, which extend into or above the Airspace; and

5) The right of ingress to, passage within, and egress from the hereinabove described real property, for the purposes described in subparagraphs (3) and (4) above at reasonable times and after reasonable notice.

For and on behalf of itself, its successors and assigns, the Grantor hereby covenants with the [Insert County or City name], for the direct benefit of the real property constituting the __________________ Airport hereinafter described, that neither the Grantor, nor its successors in interest or assigns will construct, install, erect, place or grow in or upon the hereinabove described real property, nor will they permit to allow, any building structure, improvement, tree or other object which extends into or above the Airspace, or which constitutes an obstruction to air navigation, or which obstructs or interferes with the use of the easement and rights-of-way herein granted.

The easements and rights-of-way herein granted shall be deemed both appurtenant to and for the direct benefit of that real property which constitutes the __________________ Airport, in the [Insert County or City name], State of California; and shall further be deemed in gross, being conveyed to the Grantee for the benefit of the Grantee and any and all members of the general public who may use said easement or right-of-way, in landing at, taking off from or operating such aircraft in or about the __________________ Airport, or in otherwise flying through said Airspace.

Grantor, together with its successors in interest and assigns, hereby waives its right to legal action against Grantee, its successors, or assigns for monetary damages or other redress due to impacts, as described in Paragraph (2) of the granted rights of easement, associated with aircraft operations in
the air or on the ground at the airport, including future increases in the volume or changes in location of said operations. Furthermore, Grantor, its successors, and assigns shall have no duty to avoid or mitigate such damages through physical modification of airport facilities or establishment or modification of aircraft operational procedures or restrictions. However, this waiver shall not apply if the airport role or character of its usage (as identified in an adopted airport master plan, for example) changes in a fundamental manner which could not reasonably have been anticipated at the time of the granting of this easement and which results in a substantial increase in the impacts associated with aircraft operations. Also, this grant of easement shall not operate to deprive the Grantor, its successors or assigns, of any rights which may from time to time have against any air carrier or private operator for negligent or unlawful operation of aircraft.

These covenants and agreements run with the land and are binding upon the heirs, administrators, executors, successors and assigns of the Grantor, and, for the purpose of this instrument, the real property firstly hereinafore described is the servient tenement and said _______________ Airport is the dominant tenement.

DATED: ______________
STATE OF: 
COUNTY OF: 

On __________, before me, the undersigned, a Notary Public in and for said County and State, personally appeared ____________, and ____________ known to me to be the persons whose names are subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

_______________________________________________________________
Notary Public

Sample Deed Notice

A statement similar to the following should be included on the deed for any real property subject to the deed notice requirements set forth in the [Insert ALUC name] Airport Land Use Compatibility Plan. Such notice should be recorded by the county of [Insert County name]. Also, this deed notice should be included on any parcel map, tentative map, or final map for subdivision approval.

The Alameda County Airport Land Use Compatibility Plan and [Insert County/City name] Ordinance (Ordinance No. ____________) identify a [Insert Airport name] Airport Influence Area. Properties within this area are routinely subject to overflights by aircraft using this public-use airport and, as a result, residents may experience inconvenience, annoyance, or discomfort arising from the noise of such operations. State law (Public Utilities Code Section 21670 et seq.)
establishes the importance of public-use airports to protection of the public interest of the people of the state of California. Residents of property near such airports should therefore be prepared to accept the inconvenience, annoyance, or discomfort from normal aircraft operations. Residents also should be aware that the current volume of aircraft activity may increase in the future in response to Alameda County population and economic growth. Any subsequent deed conveying this parcel or subdivisions thereof shall contain a statement in substantially this form.
Appendix F
Consistency Checklist
APPENDIX F
Consistency Checklist

Introduction

One of the fundamental responsibilities assigned to ALUCs by the Aeronautics Act is to review particular types of local actions for compliance with the criteria and policies set forth in the commissions’ adopted compatibility plans. The law specifies that local jurisdictions must refer certain actions to the ALUC for review. Actions included in this category are proposed adoption or amendment of general plans, specific plans, zoning ordinances, and building regulations affecting land within an AIA. Also required to be submitted for ALUC review are several types of airport and heliport development plans. Referral of other local actions – primarily individual development projects – is required in some instances, but voluntary in others.

The following checklist is intended to assist local jurisdictions with modifications necessary to make their general plans and other local policies consistent with the ALUC’s compatibility plan. It is also designed to facilitate ALUC reviews of these local plans and policies. For more information on the review process of local land use actions, please refer to chapters 4 and 5 of the California Airport Land Use Planning Handbook (Caltrans, 2002).
Consistency Checklist

**General and Specific Plan Documents**

The following items typically appear directly in a general or specific plan. Amendment of these types of documents will be required if there are any conflicts with the ALUCP.

**Land Use Map** – No direct conflicts should exist between proposed new land uses indicated on a general plan land use map and the ALUC land use compatibility criteria.

- Residential densities (dwelling units per acre) should not exceed the set limits. Differences between gross and net densities and the potential for secondary dwellings on single parcels may need to be taken into account.
- Proposed nonresidential development needs to be assessed with respect to applicable intensity limits.
- No new land uses of a type listed as specifically prohibited should be shown within affected areas.

**Noise Element** – General plan noise elements typically include criteria indicating the maximum noise exposure for which residential development is normally acceptable. Note, however, that a general plan may establish a different limit with respect to aviation-related noise than for noise from other sources (this may be appropriate in that aviation-related noise is often judged to be more objectionable than other types of equally loud noises).

- This limit must be made consistent with the equivalent compatibility plan criteria.

**Zoning or Other Policy Documents**

The following items need to be reflected either in the general plan or in a separate policy document such as a combining zone ordinance. If a separate policy document is adopted, modification of the general plan to achieve consistency with the compatibility plan may not be required. Modifications would normally be needed only to eliminate any conflicting language which may be present and to make reference to the separate policy document.

- **Secondary Dwellings** – detached secondary dwellings on the same parcel should be counted as additional dwellings for the purposes of density calculations. This factor needs to be reflected in local policies either by adjusting the maximum allowable densities or by prohibiting secondary dwellings where their presence would conflict with the compatibility criteria.

- **Intensity Limitations on Nonresidential Uses** – Local policies must be established to limit the usage intensities of commercial, industrial, and other nonresidential land uses. This can be done by duplication of the performance-oriented criteria – specifically, the number of people per acre – indicated in the compatibility plan. Alternatively, local jurisdictions may create a detailed list of land uses which are allowable and/or not allowable within each compatibility zone. For certain land uses, such a list may need to
include limits on building sizes, floor area ratios, habitable floors, and/or other design parameters which are equivalent to the usage intensity criteria.

- **Identification of Prohibited Uses** – Compatibility plans may prohibit day care centers, hospitals, and certain other uses within much of an airport’s influence area. The facilities often are permitted or conditionally permitted uses within many commercial or industrial land use designations. Policies need to be established which preclude these uses in accordance with the compatibility criteria.

- **Open Land Requirements** – Compatibility plan requirements, if any, for assuring that a minimum amount of open land is preserved in the airport vicinity must be reflected in local policies. Normally, the locations which are intended to be maintained as open land would be identified on a map with the total acreage within each compatibility zone indicated. If some of the area included as open land is private property, then policies must be established which assure that the open land will continue to exist as the property develops. Policies specifying the required characteristics of eligible open land also must be established.

- **Infill development** – If a compatibility plan contains infill policies and a jurisdiction wishes to take advantage of them, the lands which meet the qualifications must be shown on a map.

- **Height Limitations and Other Hazards to Flight** – To protect the airport airspace, limitations must be set on the height of structures and other objects near airports. These limitations are to be based upon Part 77 of the Federal Aviation Regulations, but may include exceptions for objects on high terrain if provided for in the ALUCP. Restrictions also must be established on other land use characteristics which can cause hazards to flight (specifically, visual or electronic interference with navigation and uses which attracted hazardous wildlife). Note that many jurisdictions have already adopted an airport-related hazard and height limit zoning ordinance which, if up to date, will satisfy this consistency requirement.

- **Noise Insulation Requirements** – Some compatibility plans call for certain buildings proposed for construction within high noise-impact areas to demonstrate that they will contain sufficient sound insulation to reduce aircraft-related noise to an acceptable level. These criteria apply to new residences, schools, and certain other buildings containing noise-sensitive uses. Local policies must include parallel criteria.

- **Buyer Awareness Measures** – As a condition for approval of development within certain compatibility zones, some compatibility plans require either dedication of an avigation easement to the airport proprietor or place on deeds of a notice regarding airport impacts. If so, local jurisdiction policies must contain similar requirements. Compatibility plans also may encourage, but should not require, local jurisdictions to adopt a policy stating that airport proximity and the potential for aircraft overflights be disclosed as part of real estate transactions regarding property in the airport influence area.
Nonconforming Uses and Reconstruction – Local jurisdiction policies regarding nonconforming uses and reconstruction must be equivalent to or more restrictive than those in the ALUCP, if any.

**Review Procedures**

In addition to incorporation of ALUC compatibility criteria, local jurisdiction implementing documents must specify the manner in which development proposals will be reviewed for consistency with the compatibility criteria.

- **Actions Always Required to be Submitted for ALUC Review** – State law specifies which types of development actions must be submitted for ALUC review. Local policies should either list these actions or, at a minimum, not the jurisdiction’s intent to comply with the state statute.

- **Other Land Use Actions Potentially Subject to ALUC Review** – In addition to the above actions, the compatibility plan may identify certain major land use actions for which referral to the ALUC is dependent upon agreement between the jurisdiction and the ALUC. If the jurisdiction fully complies with all of the items in this general plan consistency checklist or has taken the necessary steps to overrule the ALUC, then referral of the additional actions is voluntary. On the other hand, a jurisdiction may elect not to incorporate all of the necessary compatibility criteria and review procedures into its own policies. In this case, referral of major land use actions to the ALUC is mandatory. Local policies should indicate the jurisdiction’s intentions in this regard.

- **Process for Compatibility Reviews by Local Jurisdictions** – If a jurisdiction choose to submit only the mandatory actions for ALUC review, then it must establish a policy indicating the procedures which will be used to assure that airport compatibility criteria are addressed during review of other projects. Possibilities include: a standard review procedure checklist which includes reference to compatibility criteria; use of a geographic information system to identify all parcels within the airport influence area; etc.

- **Variance Procedures** – Local procedures for granting of variances to the zoning ordinance must make certain that any such variances do not result in a conflict with the compatibility criteria. Any variance which involves issues of noise, safety, airspace protection, or overflight compatibility as addressed in the compatibility plan must be referred to the ALUC for review.

- **Enforcement** – Policies must be established to assure compliance with compatibility criteria during the lifetime of the development. Enforcement procedures are especially necessary with regard to limitations on usage intensities and the heights of objects. An airport combining district zoning ordinance is one means of implementing enforcement requirements.
Appendix G
Heliport Design
APPENDIX G
Heliport Design

As described in Table 2-1 “Heliports in Alameda County”, one public- and several private-use airports operate to support private, business, and medical uses. Proposals to enhance, modify, or deactivate these facilities is subject to ALUC review.

FAA Advisory Circular (AC) 150/5390-2B, “Heliport Design,” provides recommendations for heliport design and describes the federal requirements associated with heliport development. The AC applies to any proposal to construct, activate, or deactivate a heliport. Although the AC only constitutes a regulation when Federal funds are used, Alameda County encourages those with heliport proposals to implement the guidance set forth in the AC to the greatest extent practicable.

FAA AC 150/5390-2B provides detailed data concerning heliport and helipad design, such as:

- Physical, technical, and public interest matters that should be considered in the planning and establishment of a heliport;
- Descriptions pertaining to appropriate or optimum locations for heliports;
- Terminology and pertinent terms associated with heliports;
- Design standards relevant to developing heliport facilities that support general aviation, transport, and hospitals, including diagrams;
- Gradient and pavement design; and
- Dimensional data, markings, etc.

FAA recommends that the standards presented in the AC should be used in planning and designing improvements to existing facilities or whenever a significant expansion or reconstruction project is undertaken. The complete AC is available at www.faa.gov in several files that can be downloaded upon request. The cover memorandum describing the AC and the Table of Contents are reproduced here for convenience, as the AC comprises more than 200 pages and is likely to be revised during the lifetime of this Airport Land Use Compatibility Plan. The most recent version of the AC is available from the FAA website at: www.faa.gov.
1. PURPOSE. This advisory circular (AC) provides recommendations for heliport design and describes acceptable requirements to develop a heliport. This AC applies to anyone who is proposing to construct, activate or deactivate a heliport.

2. APPLICABILITY: This AC is not mandatory and does not constitute a regulation except when Federal funds are specifically dedicated for heliport construction.

3. EFFECTIVE DATE:


5. EXECUTIVE SUMMARY. The modern helicopter is one of the most versatile transportation vehicles known to man. Typically, a heliport is substantially smaller than an airport providing comparable services. The helicopter has the capability of providing a wide variety of important services to any community that integrates this aircraft into its local transportation system.

a. Service. In addition to their service in the transportation of people, helicopters have proven to be useful in their communities in the following ways:

   (1). Disaster Relief. Natural disasters often result in the breakdown of ground transportation systems. Helicopters are able both to bring in response teams and supplies and to evacuate injured people during the critical period before ground transportation is restored.

   (2). Air Ambulance Services. For an injured or critically ill person, time is life. Helicopters can provide high-speed, point-to-point transportation without being constrained by the limitations of the ground infrastructure.

   (3). Police Services. Many municipalities consider their police services helicopters vital force multipliers in carrying out search and rescue, chase, and surveillance.

   (4). Moving High-Value Assets. High-value or time-sensitive cargo, such as canceled checks, and people, including the President of the United States, frequently travel on helicopters because this mode of transportation is fast and flexible. Companies use helicopters as an invaluable part of an in-house transportation system to connect the office with various plants, job sites, and the local airport. Utility companies use helicopters to construct and inspect high-voltage electrical lines and to monitor underground gas transmission lines. The petroleum industry uses helicopters to support exploration and production operations. Newspapers and radio/TV stations use helicopters for onsite news gathering, taking photos, and airborne reporting of rush hour traffic conditions.

b. Facilities. The most effective way for a community to realize the benefits of helicopter services is by developing or permitting the development of places where helicopters can land and take off. While heliports can be large and elaborate, most are not. The basic elements of a heliport are clear approach/ departure paths, a clear area
for ground maneuvers, and a windsock. This minimal facility may be adequate as a private use heliport, and may even suffice as the initial phase in the development of a public use heliport capable of serving the general aviation segment of the helicopter community.

c. Planning. While the heliport itself may be simple, the planning and organization required to properly put one into place can be intimidating. To help make the process easier, the Federal Aviation Administration (FAA) has published this AC. This document describes physical, technical, and public interest matters that should be considered in the planning and establishment of a heliport. While this AC is a technical document intended to help engineers, architects, and city planners' design, locate, and build the most effective heliport, it can be used by anyone considering the construction of a heliport.

d. Location. The optimum location for a heliport is in close proximity to the desired origination and/or destination of the potential users. Industrial, commercial, and business operations in urban locations are demand generators for helicopter services, even though they often compete for the limited ground space available. A site permitting the shared aeronautical and commercial usage is a viable alternative to non-aeronautical use alone. Heliport sites may be adjacent to a river or a lake, a railroad, a freeway, or a highway, all of which offer the potential for multi-functional land usage. These locations also have the advantage of relatively unobstructed airspace, which can be further protected from unwanted encroachment by properly enacted zoning. As vertical flight transportation becomes more prevalent, requirements for scheduled "airline type" passenger services will necessitate the development of an instrument procedure to permit "all-weather" service.

e. AC Organization. This AC is structured to provide communities and persons intending to develop a heliport, or become involved in regulating helicopter facilities, with general guidance on heliport requirements. The AC is organized with separate chapters covering general aviation heliports, transport heliports, and hospital heliports based on the functional role of the heliport.

(1). A heliport proponent should be familiar with the terminology used in this specialized field. Chapter 1 defines pertinent terms used in the industry and identifies actions common to developing a heliport.

(2). General aviation heliports are normally privately owned although they can be publicly owned. Design standards relevant to developing a general aviation heliport are found in Chapter 2.

(3). Transport heliports are developed to provide the community with a full range of vertical flight services including scheduled service by air carriers (airlines) using helicopters. When the heliport serves any scheduled or unscheduled passenger operation of an air carrier that is conducted with an aircraft having a seating capacity of more than 30 passengers, the heliport is required to be certificated by the FAA in accordance with 14 Code of Federal Regulations (CFR) Part 139, Certification and Operations: Land Airports Serving Certain Air Carriers. In any event, a transport heliport would also accommodate corporate users and local air taxi operators. This broad spectrum of activities frequently requires a more extensive airside and landside infrastructure with the potential capability to operate in instrument meteorological conditions. Notwithstanding these requirements, a community's investment in a heliport may be substantially less than the investment required for an airport providing comparable services. Design standards relevant to developing a transport heliport are found in Chapter 3.

(4). Hospital heliports are treated as special cases of general aviation facilities providing a unique public service. They are normally located in close proximity to the hospital emergency room or a medical facility. Design recommendations relevant to developing a hospital heliport are found in Chapter 4.

(5). When there are a significant number of helicopter operations on an airport, it may be prudent to consider developing separate facilities specifically for helicopter use. Chapter 5 addresses helicopter facilities on airports.

(6). With the introduction of the global positioning system (GPS), it is now practical for heliports to have instrument approaches. Good planning suggests that heliport proponents should plan for the eventual development of instrument approaches to their heliports. Chapters 6 and 7 contain recommendations to be considered in contemplating future instrument operations at a heliport. It is wise to consider these issues during site selection and design.
(7). Chapter 8 addresses heliport gradients and pavement design issues.

(8). The appendices provide helicopter dimensional data, addresses of aviation organizations, form and proportions of certain heliport markings, and acronyms.

6. APPLICATION. The recommendations and standards in this AC are for planning and designing civil heliports. To the extent that it is feasible and practical to do so, the standards in this AC should be used in planning and designing improvements to an existing facility when significant expansion or reconstruction is undertaken. Conformity with these standards is a prerequisite to Federal grant-in-aid assistance. Modification to a heliport design standard related to new construction, expansion, reconstruction, or upgrade on a heliport that received Federal aid requires FAA approval. The request for modification should show that the modification will provide an acceptable level of safety, economy, durability, and workmanship. The recommendations and standards in this AC are not intended to be sufficient to design an instrument approach procedure.

NOTE: If tiltrotor operations are contemplated, criteria in AC 150/5390-3, Vertiport Design are applicable.

7. METRIC UNITS. To promote an orderly transition to metric units, this AC includes both English and metric dimensions. The metric conversions may not be exact equivalents, and until there is an official changeover to the metric system, the English dimensions will govern.

DAVID L. BENNETT
Director of Airport Safety and Standards
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City of Hayward,
Ordinance 91-16
APPENDIX H
City of Hayward, Ordinance 91-16

ORDINANCE NO. 91-16

AN ORDINANCE REPEALING SECTIONS 2-6.00 THROUGH 2-6.02 AND 2-6.119 OF CHAPTER 2, ARTICLE 6; AMENDING SECTIONS 1-3.00 (b)(1) AND 1-3.06 (a)(6) OF CHAPTER 1, ARTICLE 3; AND ADDING SECTIONS 2-6.119 THROUGH 2-6.128 TO CHAPTER 2, ARTICLE 6 AND ARTICLE 11 TO CHAPTER 2 OF THE HAYWARD MUNICIPAL CODE PERTAINING TO THE REGULATION AND CONTROL OF AIRCRAFT NOISE AT HAYWARD AIR TERMINAL, HAYWARD, CALIFORNIA

WHEREAS, the City Council of the City of Hayward hereby finds and declares that:

1) The City of Hayward is the proprietor and operator of the Hayward Air Terminal ("Airport") located within its corporate limits;

2) Subject to any regulations or restrictions which may be imposed by state or federal law, the City as the airport proprietor has the authority to adopt reasonable rules regulating the use of the Airport, including the power to restrict or deny the use of the Airport to aircraft generating excessive noise levels;

3) The control of airport noise is inherently a matter of local concern and there is a demonstrated need for noise regulation at the Airport;

4) It is in the public interest that aircraft noise be reduced to ensure the peace and tranquility of residential neighborhoods without impairing the ability of the Airport to serve the general aviation needs of the community and the national air transportation system;

5) It is the policy of the City Council of the City of Hayward to make reasonable effort to reduce noise from aircraft operations at the Airport;
6) In an effort to gather all available information, record citizens' complaints, and analyze and recommend solutions to the noise problem, the Airport staff has conducted a public survey and a series of public workshops on all aspects of the airport noise problem;

7) The City Council has analyzed the results of the public workshops as well as the noise monitoring and other data regarding aircraft operations at the Airport and finds that the noisiest aircraft utilizing the Airport produce annoyances and citizen complaints far in excess of their proportion of total percentage of operation;

8) The City Council has considered the economic impact and the costs and benefits of this ordinance as well as alternative noise restrictions and noise measures;

9) One of the purposes of noise enforcement standards under this ordinance is to allow all current operators of noisy aircraft the flexibility to modify their aircraft or otherwise bring their activities into compliance; and

10) A draft of this ordinance has been circulated and public meetings held to receive comments from interested parties on its provisions.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF HAYWARD DOES ORDAIN AS FOLLOWS:

Section 1. Section 2-6.119 of Chapter 2, Article 6 of the Hayward Municipal Code is hereby repealed.

Section 2. Sections 2-6.119 through 2-6.127 of Chapter 2, Article 6 of the Hayward Municipal Code are hereby added to read in full as follows:

AIR TERMINAL RULES AND REGULATIONS. AIRCRAFT NOISE RESTRICTIONS.

SEC. 2-6.119 DEFINITIONS. The following terms are defined as follows unless it is apparent from their context that a different meaning is intended:

a) Single Event Noise Exposure Level (SENL). The single event noise exposure level, in decibels, is the noise exposure level of a single event, such as an aircraft flyby, measured over the time interval between the initial and final times for which the noise level of a single event exceeds a given threshold noise level;

b) A-Weighted Noise Level (NL). The A-weighted noise level, in decibels, is the sound pressure level measured using the slow dynamic characteristics for type 1 or type 2 sound level meters specified in the American National Standard Specifications for Sound Level Meters, ANSI S1.4-1971 (or latest revision thereof). The A-weighting characteristics modify the frequency response of the measuring instrument to account approximately for the frequency characteristics of the human ear; and
c) Federal Aviation Administration (FAA) Advisory Circular 36-3F (FAA Advisory Circular 36-3F). Federal Aviation Administration publication entitled "Estimated Noise Levels in A-weighted Decibels," which lists take-off and approach noise levels for all fixed-wing aircraft in the U.S. Fleet (except for experimental and antique aircraft) as measured at 21,325 feet (6,500 meters) from beginning of take-off roll for take-off noise and 6,652 feet (2,000 meters) from the landing threshold for approach noise. The phrase "FAA Advisory Circular 36-3F" shall refer to the Federal Aviation Administration Advisory Circular 36-3F, including all revisions thereof, or the version of that document currently in effect; and

d) Enforcement Officer. The Airport Director and such other City employees as are designated by the Airport Director with the approval of the Public Works Director and the City Manager all acting under the direction and control of the City Manager, shall have the duty and authority to enforce the provisions of the Aircraft Noise Restrictions, pursuant to Section 836.5 of the California State Penal Code.

SEC. 2-6.120 AIRCRAFT NOISE LIMIT

a) No aircraft may take off, land or otherwise operate at the Airport between the hours of 7:00 a.m. and 11:00 p.m. if it generates a Single Event Noise Exposure Level (SENEL) which exceeds the following values as measured at any one of the Airport's four (4) Noise Monitoring Terminals (NMT):

<table>
<thead>
<tr>
<th>Runways 28L/28R</th>
<th>Runways 10R/10L</th>
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<tbody>
<tr>
<td>NMT #1</td>
<td>98</td>
</tr>
<tr>
<td>NMT #2</td>
<td>98</td>
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<tr>
<td>NMT #3</td>
<td>98</td>
</tr>
<tr>
<td>NMT #4</td>
<td>98</td>
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</tbody>
</table>

b) No aircraft may take off, land or otherwise operate at the Airport at night between the hours of 11:01 p.m. and 6:59 a.m. if it generates a Single Event Noise Exposure Level (SENEL) which exceeds the following values as measured at any one of the Airport's four (4) Noise Monitoring Terminals (NMT):

<table>
<thead>
<tr>
<th>Runways 28L/28R</th>
<th>Runways 10R/10L</th>
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<tbody>
<tr>
<td>NMT #1</td>
<td>95</td>
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<td>NMT #2</td>
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<tr>
<td>NMT #3</td>
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<tr>
<td>NMT #4</td>
<td>95</td>
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SEC. 2-6.121 PRESUMPTION OF AIRCRAFT NOISE VIOLATION.

a) Between the hours of 7:00 a.m. and 11:00 p.m., any aircraft which exceeds 77 on the dBA scale on take-off as listed in the FAA Advisory Circular 36-3F, shall be presumed to be in violation of the maximum single event noise levels established in Section 2-6.120 above;
b) Between the hours of 11:01 p.m. and 6:59 a.m., any aircraft which exceeds 73 on the 
dBA scale on take-off as listed in the FAA Advisory Circular 36-3F, shall be presumed to 
be in violation of the maximum single event noise levels established in Section 2-6.120
above;

c) Aircraft types and models which are not listed in Advisory Circular 36-3F will be 
allowed to operate at the Hayward Air Terminal only if:

   i. The Federal Aviation Administration determines that the specific aircraft type and 
model would meet the FAA Advisory Circular 36-3F noise limits stated above if it 
were tested according to Federal Aviation Administration procedures; and

   ii. The operator performs a flight test to the reasonable satisfaction of the Airport 
Director using operating procedures which indicate an ability to comply with the 
maximum noise levels established in Section 2-6.120.

SEC. 2-6.122  REBUTTAL OF PRESUMPTION OF AIRCRAFT NOISE VIOLATION.

a) Aircraft owners or operators of aircraft presumed to be unable to meet the maximum 
noise limits established in Section 2-6.120 above shall be entitled to rebut the 
preumption to the reasonable satisfaction of the Airport Director by:

   1) Furnishing evidence which establishes that the aircraft type and model would 
meet the FAA Advisory Circular 36-3F levels set in Section 2-6.121, including, 
but not limited to, changes in operating procedures, retrofitting measures, and 
changes in engine; and

   2) Demonstrating an ability to comply with the maximum SENEL noise limits 
established in Section 2-6.120 by performing a flight test using safe operating 
procedures;

b) The Airport Director's approval shall not be unreasonably withheld;

c) If the above conditions are met, the specified aircraft owner or operator shall be entitled 
to operate the approved aircraft at the Airport as long as the specified operating 
conditions identified in the flight test are followed during subsequent operations.

d) Failure to comply with the specified operating conditions shall constitute a violation of 
these Aircraft Noise Restrictions. Upon the second violation of the Aircraft Noise 
Restrictions, the aircraft shall be excluded from the airport for a period of at least 6 
months before operating privileges for that aircraft can be requested again.
SEC. 2-6.123 EXEMPTIONS. The following categories of aircraft shall be exempt from the provisions of Section 2-6.120 above:

a) All aircraft classified as Stage 3 aircraft by the Federal Aviation Administration;

b) Aircraft operated by the United States of America or the State of California;

c) Law enforcement, emergency, fire, or rescue aircraft operated by any county, city, subdivision or special districts of the state, when those aircraft are operating in emergency situations including emergency aircraft flights for medical purposes;

d) Aircraft used for emergency purposes during an emergency which has been officially proclaimed by competent authority pursuant to the laws of the United States, the State of California, Alameda County, or the City of Hayward;

e) Civil Air Patrol aircraft when engaged in actual search and rescue missions;

f) Aircraft which are being operated under a declared in-flight emergency;

g) Aircraft operating as a declared air ambulance emergency flight for medical purposes pursuant to Public Utilities Code Section 21662.4; and

h) Aircraft engaged in take-offs or landings while conducting tests under the direction of the Airport Director in an attempt to rebut the presumption of aircraft noise violation pursuant to the provisions of Sections 2-6.121 and 2-6.122 above.

Evidence of exemption status under subsections (f) and (g) above must be provided to the Airport within seven (7) days of the flight.

SEC. 2-6.124 CULPABILITY OF INSTRUCTOR PILOTS. In the case of any training flight in which both an instructor pilot and a student pilot are in the aircraft which is flown in violation of any of the Aircraft Noise Restrictions, the instructor pilot shall be rebuttably presumed to have caused the violation.

SECTION2-6.125 CULPABILITY OF AIRCRAFT OWNER. For purposes of the Aircraft Noise Restrictions, if the pilot of an aircraft cannot otherwise be identified, the owner of an aircraft shall be presumed to be the pilot of the aircraft with authority to control the aircraft's operation, or presumed to have authorized or assisted in the aircraft's operation. The presumption may be rebutted only if the owner or lessee identifies the person who in fact was the pilot at the time of the asserted violation.
SEC. 2-6.126 ENFORCEMENT PROVISIONS. Any person who operates an aircraft in violation of the Aircraft Noise Restrictions shall be guilty of an infraction. Upon conviction of an infraction, a person shall be subject to payment of a fine, not to exceed the limits set forth in California Government Code Section 36900. In addition, the Airport Director may issue orders imposing civil penalties for violations of the Aircraft Noise Restrictions. The following standards and procedures shall apply to the enforcement of these provisions:

a) Upon the first violation of any provision of the Aircraft Noise Restrictions, a citation shall be issued to the violator and no civil penalty shall be imposed;

b) Upon the second violation of any provision of the Aircraft Noise Restrictions within a three-year period, a second citation shall be issued and the violator shall be subject to an order imposing a civil penalty which may be a fine of up to $500.00, a suspension of airport privileges or permits for up to one year, or both;

c) Upon the third violation of any provision of the Aircraft Noise Restrictions within a three year period, a third citation shall be issued and the violator shall be subject to an order imposing a civil penalty which may be a fine of up to $500.00, a suspension of airport privileges or permits for up to three years, or both;

d) The Airport Director may also restrict access to and operating privileges at the airport subject to compliance with certain operating conditions in order to ensure future compliance with the Aircraft Noise Restrictions;

e) Before issuing an order for a violation of the Aircraft Noise Restrictions, the Airport Director shall consider all relevant factors in each case including the willfulness, severity and nature of the violation, the existence and use of safe noise abatement operating procedures appropriate to the aircraft, instructions issued by FAA air traffic control tower personnel for air traffic safety purposes, and extraneous factors beyond the pilot's control such as loss of power, maneuvers to avoid other aircraft or unusual weather conditions;

f) Any person may appeal an order of the Airport Director imposing a civil penalty by filing a written appeal with the Public Works Director within seven (7) days of the date of the Airport Director's order. If the seventh day falls on a weekend or legal holiday observed by the City, then the appeal may be filed on the next workday.

g) An order of the Public Works Director shall be final except for judicial review and shall not be appealable to the City Council;

h) A willful violation of a lawful order of either the Airport Director or the Public Works Director shall constitute a separate and distinct violation of these Aircraft Noise Restrictions;
APPENDIX I

Glossary

**Air carrier**: An operator that:

1. performs at least five round trips per week between two or more points and publishes flight schedules which specify the times, days of the week and places between which such flights are performed; or

2. transport mail by air pursuant to a current contract with the United States Postal Service.

Air carriers are certified in accordance with Federal Aviation Regulations (FAR) Parts 121 and 127.

**Air charter**: An air carrier certified in accordance with FAR Part 135 and authorized to provide, on demand, public transportation of persons and property by aircraft. Air charters generally operate small aircraft “for hire” for specific trips.

**Air taxi**: See air charter.

**Air traffic control**: A term used to denote a number of different types of facilities which are operated by or under the auspices of the Federal Aviation Administration and which provide informational, navigational, and collision avoidance services to aircraft in flight. Air traffic control towers and air route traffic control centers are elements of the air traffic control system.

**Air traffic control tower (ATCT) (“tower”)**: A facility located within the physical boundaries of certain airports and consisting of a tower which provides visual and/or radar tracking, ground-to-air radio communications, traffic management, and limited informational, navigational, and separation services to aircraft operating in the immediate vicinity of an airport.

**Air route traffic control center (ARTCC)**: A facility which provides radar tracking and informational, navigational, and separation services to aircraft operating beyond the immediate vicinity of an airport.

**Airport Operation**: A take off or a landing.

**Angle of descent**: The angle, with respect to a horizontal plane, of the flight path of an aircraft descending from a higher altitude to a lower altitude (usually expressed in degrees or in feet per nautical mile). Also referred to as descent slope.
**Approach angle**: The angle, with respect to a horizontal plane, of the flight path of an aircraft descending to land at an airport (usually expressed in degrees or in feet per nautical mile). Also referred to as approach slope.

**Approach lighting system (ALS)**: An airport lighting system which, by means of a standardized array of lights on the ground provides visual cues which enable pilots or aircraft approaching the runway in conditions of darkness or poor visibility, to align the flight path of the aircraft with the extended centerline of the runway.

**Banks**: As employed in the Land Use Matrix and other sections of this ALUP, the term “banks” shall encompass any land use whereby some or all of the financial services customarily provided by banking institutions are offered to the general public. Examples include traditional banks, savings and loan associations, and credit unions. The provision of banking services at a site, which is predominantly devoted to a compatible use (e.g., in-store supermarket bank branches, automated teller machines), however, shall not be considered as banks in the context of this ALUP.

**Base leg**: A segment of the standard airport traffic pattern which extends at right angles from the extended runway centerline at some distance from the approach end of the runway. The base leg extends from the downwind leg of the traffic pattern to the final approach course (extended runway centerline) and is flown in the direction toward the runway centerline. The altitude of aircraft flying the base leg is usually between 1000 and 400 feet above ground level.

**Churches**: As employed in the Land Use Matrix and other sections of this ALUP, the term “churches” shall denote any land use devoted exclusively or primarily to religious worship. Classrooms and/or meeting rooms may be included as part of a church if sufficient conditions are placed upon the development to ensure that such facilities will be utilized only for religious instruction or church-related meetings and that their use for such purposes will remain subsidiary to the primary activity of religious worship. In the absence of such conditions, classroom facilities which would be suitable for regular religious or non-religious education of students will be considered a school.

**Circle-to-Land Procedure**: A series of standardized aerial procedures which enable aircraft which have completed an instrument approach intended to culminate in a landing on a specified runway to maneuver for landing on a different runway than specified in the basic instrument approach while maintaining visual contact with the airport.

**Climb gradient**: The angle, with respect to a horizontal plane, of the flight path of an aircraft ascending from a lower altitude to a higher altitude (usually expressed in feet per nautical mile).

**Closed traffic**: An airborne maneuver by which an aircraft takes off from and lands at an airport without leaving the immediate airport vicinity (usually performed as a flight training or practice maneuver) or the airport traffic pattern flown by such an aircraft.

**Community noise equivalent level (CNEL)**: A measure, in decibels, of the cumulative noise exposure at a given site. The CNEL mathematically increases the significance of noise events occurring during evening and nighttime hours, in response to the widely-held assumptions that such events are more intrusive than similar events occurring during daytime hours.
Compatible: A designation employed within the Land Use Matrix (Table 2-2) to denote that a proposed land use is not prohibited or restricted by the Land Use Matrix within the specified zone.

Consistent: A determination made by the ALUC when a referral meets the conditions outlined in the ALUP.

Crosswind departure: A VFR departure procedure in which an aircraft exits the airport area by extension of the crosswind leg of the traffic pattern.

Crosswind leg: A segment of the standard airport traffic pattern which extends at right angles from the extended runway centerline at some distance from the departure end of the runway. The base leg extends from the upwind leg of the traffic pattern to the downwind leg and is flown in the direction away from runway centerline.

Course Deviation Indicator (CDI): An instrument commonly installed in aircraft and utilized for aerial navigation, which depicts the location, in the horizontal plane, of the aircraft relative the intended direction of flight.

Decibel (dB): A unit for expressing the relative intensity of sounds on a scale of zero for the average least perceptible sound to about 130 for the average pain level.

Decision altitude (DA): The minimum altitude above mean sea level to which an aircraft operating according to a precision instrument approach may descend without visual contact with the airport or the airport environs.

Decision height (DH): The minimum vertical distance above the height of the intended landing zone to which an aircraft operating according to a precision instrument approach may descend without visual contact with the airport or the airport environs.

Density of Land Use: The number of people a development can attract per acre.

Density of Residential Development: The number of dwelling units per acre in a development or proposed development.

Departure Procedure (DP): See instrument departure procedure.

Descent slope: The angle, with respect to a horizontal plane, of the flight path of an aircraft descending from a higher altitude to a lower altitude (usually expressed in degrees or in feet per nautical mile). Also referred to as angle of descent.

Distance Measuring Equipment (DME): An apparatus, consisting of a ground-based radio transmitter and a specialized airborne receiver, which provides information regarding the slant-range distance of an aircraft from the ground-based facility. Also, by extension, any airborne maneuver, course, or flight path which is determined through the application of DME information.

Downwind departure: A VFR departure procedure in which an aircraft exits the airport area by extension of the downwind leg of the traffic pattern.
**Downwind leg**: A segment of the standard airport traffic pattern which is parallel to the runway of intended landing, is usually between 1/2 and 1 1/2 miles lateral to the runway, and is flown in a direction opposite to the direction of intended landing. The downwind leg is, in most instances, the initial leg of the traffic pattern for landing aircraft. The altitude of aircraft flying the base leg is usually between 1000 and 800 feet above ground level.

**Emergency Aircraft Landing Site**: Any area of usable space which is at least 300 feet in length and 75 feet in width and which is oriented in such manner that its long axis is approximately parallel to the most frequently used adjacent flight path or paths.

**Enplaned passengers**: The total number of revenue-producing passengers boarding aircraft, including originating, stopover, and transfer passengers, in scheduled and nonscheduled services.

**Fixed base operator (FBO)**: A provider of support services to users of an airport. Such services include fueling, hangaring, flight training, repair, maintenance, and other services.

**General aviation**: That portion of civil aviation which encompasses all facets of aviation except air carriers and air charters.

**Glide slope**: An apparatus which provides, by means of radio signals or light signals, vertical guidance to aircraft approaching to land, or (by extension) the vertical flight path flown by aircraft receiving guidance from such a system.

**Global positioning system (GPS)**: A navigational aid which determines the position, direction of flight, speed, and (to a limited extent) altitude of an aircraft by means of signals received from a constellation of earth-orbiting satellites.

**Global positioning system (GPS) approach**: A series of standardized, predetermined, and published aerial maneuvers which are based on navigational data received from earth-orbiting satellites and which enable aircraft to descend toward an airport with the intention of landing when meteorologic conditions are such that a safe approach cannot be made solely through the use of visual information. A typical GPS approach permits aircraft to descend to within 400-500 feet of the surface solely on the basis of satellite navigation aids.

**Global positioning system (GPS) overlay**: An FAA designation applied to certain instrument approach procedures originally designed to be executed by reference to ground-based navigational aids which authorizes pilots to perform the approach solely by reference to navigational information provided by earth-orbiting GPS satellites.

**Gross Area or Gross Acreage**: For the purposes of this ALUP, the terms *gross area* and *gross acreage* will be considered interchangeable, and will be considered to indicate a measurement of the entire size of the site, parcel, intended use, or zone specified by a referral to the ALUC.

**Hospitals**: As employed in the Land Use Matrix and other sections of the ALUP, the term “hospitals” shall encompass any facility other than a private physician’s office or outpatient clinic, in which care is offered to individuals who exhibit physical, emotional, or mental disability or illness. Examples include acute care hospitals, freestanding emergency rooms, nursing homes, board-and-care facilities, birthing centers, mental institutions, and rehabilitation centers.
Hotels & Motels: For purposes of the Land Use Matrix and other sections of the ALUP, the term “hotels & motels” shall denote any structure or facility intended or suitable for short-term occupancy by persons as a temporary dwelling. Examples of this type of land use include hotels, motels, bed and breakfast inns, youth hostels, pensions, and temporary shelters.

Inconsistent: A determination made by the ALUC when a proposed local action does not meet the conditions outlined in the ALUP.

Instrument approach: A series of standardized, predetermined, and published aerial maneuvers which are based on navigational data received from ground-based navigational aids or satellites and which enable aircraft to descend toward an airport with the intention of landing when meteorologic conditions are such that a safe approach cannot be made solely through the use of visual information.

Instrument departure procedure (DP): A series of standardized, predetermined, and published aerial maneuvers which are based on navigational data received from ground-based navigational aids or satellites and which enable aircraft to depart from an airport when meteorologic conditions are such that a safe departure cannot be made solely through the use of visual information. Formerly known as a standard instrument departure (SID).

Instrument flight rules (IFR): A set of FAA rules, regulations, and procedures which define flight operations under conditions which do not permit navigation by means of visual information alone. Also employed as an adjective to designate a flight plan which will enable an aircraft to operate under conditions which preclude navigation by means of visual information.

Instrument landing system (ILS): A precision instrument approach system which provides aircraft with both vertical (glideslope) and lateral guidance by means of radio signals transmitted from installations within the physical boundaries of the airport.

Instrument landing system (ILS) approach: A series of standardized, predetermined, and published aerial maneuvers which are based on vertical and lateral navigational data received from radio transmitters located within the physical boundaries of the airport and which enable aircraft to descend toward an airport with the intention of landing when meteorologic conditions are such that a safe approach cannot be made solely through the use of visual information. A typical ILS approach permits aircraft to descend to within 200 feet of the surface.

Instrument meteorologic conditions (IMC): Weather conditions specified in FAA regulations under which aircraft are not authorized to takeoff, land, or maneuver under visual flight rules and may operate only by reference to electronic aids to navigation. The visibility and cloud clearance requirements for IMC are determined by the airspace designation in which and aircraft is operating, by the aircraft’s altitude above both sea level and ground level, and by whether the aircraft is operating in daylight or at night.

Localizer (LOC): An apparatus which provides, by means of radio signals from a transmitter located within the physical boundaries of an airport and a specialized airborne receiver, lateral course guidance for aircraft descending to land.
Localizer approach: A series of standardized, predetermined, and published aerial maneuvers which are based on lateral guidance information received by means of a localizer transmitter located within the physical boundaries of an airport and which enable aircraft to descend toward an airport with the intention of landing when meteorologic conditions are such that a safe approach cannot be made solely through the use of visual information. Localizer approaches do not provide vertical guidance, but localizers are often coupled with glide slope transmitters. A typical localizer approach permits aircraft to descend to within 400-500 feet of the surface solely on the basis of radio navigation aids.

Localizer-type directional array (LDA): A type of apparatus which provides, by means of radio signals from a transmitter located within the physical boundaries of an airport and a specialized airborne receiver, lateral course guidance for aircraft descending to land. The primary distinction between an LOC and an LDA is that the final approach course provided by the LDA is not aligned with the runway centerline. Glide slope information is never provided in conjunction with an LDA.

Localizer-type directional array (LDA) approach: A series of standardized, predetermined, and published aerial maneuvers which are based on lateral guidance information received by means of an LDA transmitter located within the physical boundaries of an airport and which enable aircraft to descend toward an airport with the intention of landing when meteorologic conditions are such that a safe approach cannot be made solely through the use of visual information.

Minimum descent altitude (MDA): The minimum altitude above mean sea level to which an aircraft operating according to a non-precision instrument approach may descend without visual contact with the airport or the airport environs.

Minimum descent height (MDH): The minimum vertical distance above the height of the intended landing zone to which an aircraft operating according to a non-precision instrument approach may descend without visual contact with the airport or the airport environs.

Missed approach: An instrument approach which does not terminate in a landing. Usual reasons for a missed approach include failure to establish visual contact with the airport environs at the completion of an instrument approach, loss of course guidance, or instructions from air traffic control.

Missed approach course: A standardized, predetermined, and published flight path to be flown in the event of a missed approach.

Multifamily residential (land use): Any project, development, or other land use in which separate families or individuals occupy dwelling units which share a common wall or a common roof, or occupy a common legal parcel of real estate. Examples include duplexes, triplexes, quadruplexes, apartment buildings, condominiums, townhouses, and residential courts. In addition, institutional uses such as hospitals, nursing homes, board and care facilities, correctional institutions, and boarding schools, which entail the long-term occupancy of a single-structure by unrelated individuals will be considered to be multifamily residential in nature.

Nautical mile (nm): a measure of distance equal to 6076.115 feet (1852 meters).
I. Glossary

Non-directional beacon (NDB): A radio beacon which transmits signals which do not contain encoded directional information, but which can be used for as a “homing” signal for aircraft tracking to or away from the transmitter.

Non-directional beacon (NDB) approach: A series of standardized, predetermined, and published aerial maneuvers which are based on lateral guidance information received by means of an NDB transmitter located either at or remote from an airport and which enable aircraft to descend with the intention of landing when meteorologic conditions are such that a safe approach cannot be made solely through the use of visual information.

Non-precision instrument approach procedure: An instrument approach procedure for which vertical guidance is not provided. Common types of non-precision instrument approach procedures include VOR, GPS, localizer, NDB, and LDA.

Office buildings: As employed in the Land Use Matrix and other sections of the ALUP, the term “office buildings” shall encompass any development, regardless of structure size, which includes significant floor space suitable for use by personnel performing or providing clerical, professional, or financial services as a primary use. The presence of limited office space for support of another primary function which is consistent with the ALUP, however, is not considered an “office building” under this definition.

Open Space: Land which is substantially free of structures, vehicles, and trees, which is relatively smooth and level, and which is devoted to use characterized by low occupancy levels.

Operation: A takeoff or landing

Precision instrument approach procedure: An instrument approach procedure for which vertical guidance is provided. ILS is the only common type of precision instrument approach currently in use. In the near future, certain GPS approaches will be upgraded to provide vertical guidance information, as well.

Prohibited: A determination made by the ALUC when a proposed local action does not meet the criteria set forth in the Land Use Matrix.

Public buildings: For purposes of the Land Use Matrix and other sections of the ALUP, the term “public buildings” shall be taken to mean structures which are utilized by government or social agencies for the provision of services to the public. Examples of such uses would include post offices, police or fire stations, and offices and agencies of local, state, or federal government.

Rate of climb: The vertical speed or rate of change in altitude of an aircraft ascending from a lower altitude to a higher altitude (usually expressed in feet per minute).

Rate of descent: The vertical speed or rate of change in altitude of an aircraft descending from a higher altitude to a lower altitude (usually expressed in feet per minute).

Rural residential (land use): As employed in the Land Use Matrix and other sections of the ALUP, the term “rural residential” indicates use of land for dwellings in such manner that no more than one primary dwelling unit is developed per five acres of property.
Single-family residential (land use): As employed in the Land Use Matrix and other sections of the ALUP, the term “single-family residential” indicates use of land for dwellings in such manner that no more than one primary dwelling unit is developed on each legal parcel and the size of each legal parcel is less than one acre.

Schools, colleges, and universities: For purposes of the Land Use Matrix and other sections of the ALUP, the term “schools, colleges, and universities” shall be taken to indicate any land use in which groups of individuals, particularly children, are engaged in activities, either formal or informal, which are intended to provide instruction, information, or mental or intellectual stimulation. Examples of such uses would include primary, secondary, or high schools (public or private), colleges, universities, graduate schools, specialized vocational schools, seminaries, nurseries, pre-schools, and day care centers.

Standard instrument departure (SID): See instrument departure procedure.

Standard Terminal Arrival Route (STAR): A series of standardized, predetermined, and published routes, procedures and/or maneuvers which enable aircraft to transition safely from the en route environment to the terminal environment. A STAR does not culminate in a landing, but terminates at a point from which an instrument approach to landing may be initiated.

Straight-out departure: A VFR departure procedure in which an aircraft exits the airport area along the extended centerline of the departure runway by extension of the upwind leg of the traffic pattern.

Suburban residential (land use): As employed in the Land Use Matrix and other sections of the ALUP, the term “suburban residential” indicates use of land for dwellings in such a manner that no more than one primary dwelling unit is developed on each legal parcel and the size of each legal parcel is 1 acre to 5 acres.

Tactical air navigation facility (TACAN): A ground-based radio navigational aid which transmits encoded signals that enable aircraft equipped with appropriate receivers to determine both bearing and distance with respect to the facility. The information with respect to bearing is generally available only to military aircraft, while information regarding distance is usable by both military and civil aircraft. TACAN facilities are frequently co-located with VORs.

Unobstructable Emergency Aircraft Landing Site: Any emergency aircraft landing site which cannot be eliminated or reduced in size without a general plan amendment, specific plan or specific plan amendment, zoning ordinance or zoning ordinance amendments, or other referring agency action which requires mandatory review by the ALUC.

Upwind leg: A segment of the airport traffic pattern which is coincident with the centerline of the departure runway. The upwind leg is the initial leg of the traffic pattern for departing aircraft and extends from takeoff to the crosswind leg or departure from the airport area.

Very high frequency omnidirectional range (VOR): A ground-based radio navigational aid which transmits encoded signals that enable aircraft equipped with appropriate receivers to determine their bearing with respect to the facility.
Very high frequency omnidirectional range with distance-measuring equipment (VOR-DME): A ground-based radio navigational aid which combines a VOR transmitter with a DME facility and which transmits encoded signals that enable aircraft equipped with appropriate receivers to determine both relative bearing and distance with respect to the facility.

Very high frequency omnidirectional range with tactical air navigation (VORTAC): A ground-based radio navigational aid which combines a VOR transmitter with a TACAN facility and which transmits encoded signals that enable both military and civilian aircraft equipped with appropriate receivers to determine both bearing and distance with respect to the facility.

Visual approach: A procedure whereby an aircraft which is operating in VMC according to an IFR flight plan and under control of an air traffic control facility may proceed to the airport of destination and land using visual navigational cues.

Visual approach slope indicator (VASI): A navigational aid installed adjacent to an airport runway which provides, by means of colored light beams, vertical course guidance to aircraft approaching to land on that runway. The usual descent slope provided by VASI installations is 3°.

Visual flight rules (VFR): A set of FAA rules, regulations, and procedures which define flight operations under conditions which allow navigation by means of visual information, pilotage, and dead reckoning alone. Also employed as an adjective to designate a flight plan which will enable an aircraft to operate under conditions which permit navigation by means of visual information alone. For takeoff and landing, operation under visual flight rules requires 3 statute miles visibility and a cloud ceiling of at least 1000 feet. A special VFR clearance may be obtained from ATC if visibility is 1 statute mile or greater and the pilot can maneuver to remain clear of clouds in the vicinity.

Visual meteorologic conditions (VMC): Weather conditions specified in FAA regulations under which aircraft are authorized to takeoff, land, and maneuver under visual flight rules and by means of only visual navigational information. Electronic aids to navigation may be utilized by aircraft operating in VMC, but are not required. The visibility and cloud clearance requirements for VMC are determined by the airspace designation in which and aircraft is operating, by the aircraft’s altitude above both sea level and ground level, and by whether the aircraft is operating in daylight or at night.

VOR approach: A series of standardized, predetermined, and published aerial maneuvers which are based on lateral guidance information received by means of a VOR transmitter and which enable aircraft to descend toward an airport with the intention of landing when meteorologic conditions are such that a safe approach cannot be made solely through the use of visual information. The VOR facility may be located within the physical boundaries of the destination airport or at some distance from the airport. VOR approaches do not provide vertical guidance. A typical VOR approach permits aircraft to descend to within 400-500 feet of the surface solely on the basis of radio navigation aids.
i) Any person who fails to pay a civil penalty within 30 days after the issuance of an order to do so shall pay a separate charge of ten percent (10%) of the unpaid amount of the civil penalty. The Airport Director may also exclude such person from the Airport until the penalty and any late charges are paid; and

j) The remedies established herein are supplementary to any legal or equitable remedies available to the City in its municipal and proprietary capacities, including but not limited to its right to abate nuisances and hazards.

SEC. 2-6.127  EXCLUSION OF AIRCRAFT FROM AIRPORT. In the event any aircraft has been operated in violation of any of the Aircraft Noise Restrictions or any other laws, rules or regulations of the City on three or more occasions within a three year period, that aircraft may be denied the right to tiedown, be based at, land or take off from the Airport for a period of three years except in emergencies for the preservation of life or property as reasonably determined by the Airport Director.

SEC. 2-6.128  OPERATIVE DATE. Sections 2-6.119 through 2-6.127 of this Article shall not be enforced until six (6) months after their adoption. This transition period is provided to permit education of the aviation community about the existence of these noise restrictions as well as alternative noise restrictions which were considered and rejected, to provide reasonable notification to the owners and operators of aircraft which are presumptively incapable of complying with such noise restrictions, and to permit compliance with the noise restrictions by allowing a reasonable time for transition to quieter models of aircraft or modification of existing equipment.
Appendix J
Real Estate Disclosure Law and Legislation
Assembly Bill No. 2776

CHAPTER 496

An act to amend Section 11010 of the Business and Professions Code, and to amend Sections 1102.6, 1103.4, and 1353 of the Civil Code, relating to aviation.

[Approved by Governor September 12, 2002. Filed with Secretary of State September 12, 2002.]

LEGISLATIVE COUNSEL’S DIGEST


(1) Existing law requires any person who intends to offer subdivided lands within California for sale or lease to file with the Department of Real Estate an application for a public report consisting of a notice of intention and a completed questionnaire that includes, among other things, the location of all existing airports, and of all proposed airports shown on the general plan of any city or county, located within 2 statute miles of the subdivision. Existing law requires that a copy of the public report of the Real Estate Commissioner, when issued, be given to the prospective purchaser by the owner, subdivider, or agent prior to the execution of a binding contract or agreement for the sale or lease of any lot or parcel in a subdivision or upon request by any member of the public.

This bill would require the notice of intention filed with the application for a public report, to include a statement regarding whether the property is encompassed within an airport influence area, as defined.

(2) The Davis-Stirling Common Interest Development Act regulates common interest developments and defines the declarations and other governing documents that govern the operation of common interest developments and the associations that manage common interest developments. A declaration is required to contain specified information. Existing law provides that an owner of a separate interest in a common interest development must provide certain items to a prospective purchaser prior to transfer of title, including, among other things, a copy of the governing documents of the common interest development.

This bill would require that any declaration, recorded after January 1, 2004, contain a statement regarding whether the property is encompassed within an airport influence area.

(3) Existing law requires a seller of residential property, to make disclosures upon the transfer of that property, and sets forth the content
and form of these disclosures in a Real Estate Transfer Disclosure Statement and a Natural Hazard Disclosure Statement. Existing law requires certain sellers of residential real property who have actual knowledge that the property is affected by or zoned to permit certain manufacturing, commercial, or airport uses to give written notice of that knowledge, as soon as practicable before transfer of title. Existing law requires the disclosure statement to advise a purchaser that other reports and disclosures, such as an inspection report, have or will be made in connection with the transfer.

This bill would revise the Real Estate Transfer Disclosure Statement to require that statement to advise the prospective purchaser of other disclosures required by law, including the Natural Hazard Disclosure Report/Statement that may include airport annoyances, earthquake, fire, flood, or special assessment information, that have or will be made in connection with the transfer.

(4) Existing law limits the liability of a transferor for failing to disclose natural hazards if the transferor obtains a report or opinion prepared by a licensed engineer, land surveyor, geologist, or expert in natural hazard discovery dealing with matters within the scope of the professional’s license or expertise.

The bill would condition this limitation upon the expert in natural hazard discovery determining whether the property is within an airport influence area and if so, providing notice with the report or opinion.

This bill would provide that its provisions will become operative on January 1, 2004.

The people of the State of California do enact as follows:

SECTION 1. The Legislature finds and declares that the current mechanisms for providing notice to homebuyers of potential airport impact are inadequate, as evidenced by the number of complaints and lawsuits regarding airport noise by residents of surrounding communities.

SEC. 2. Section 11010 of the Business and Professions Code is amended to read:

11010. (a) Except as otherwise provided pursuant to subdivision (c) or elsewhere in this chapter, any person who intends to offer subdivided lands within this state for sale or lease shall file with the Department of Real Estate an application for a public report consisting of a notice of intention and a completed questionnaire on a form prepared by the department.

(b) The notice of intention shall contain the following information about the subdivided lands and the proposed offering:
(1) The name and address of the owner.
(2) The name and address of the subdivider.
(3) The legal description and area of lands.
(4) A true statement of the condition of the title to the land, particularly including all encumbrances thereon.
(5) A true statement of the terms and conditions on which it is intended to dispose of the land, together with copies of any contracts intended to be used.
(6) A true statement of the provisions, if any, that have been made for public utilities in the proposed subdivision, including water, electricity, gas, telephone, and sewerage facilities. For subdivided lands that were subject to the imposition of a condition pursuant to subdivision (b) of Section 66473.7 of the Government Code, the true statement of the provisions made for water shall be satisfied by submitting a copy of the written verification of the available water supply obtained pursuant to Section 66473.7 of the Government Code.
(7) A true statement of the use or uses for which the proposed subdivision will be offered.
(8) A true statement of the provisions, if any, limiting the use or occupancy of the parcels in the subdivision.
(9) A true statement of the amount of indebtedness that is a lien upon the subdivision or any part thereof, and that was incurred to pay for the construction of any onsite or offsite improvement, or any community or recreational facility.
(10) A true statement or reasonable estimate, if applicable, of the amount of any indebtedness which has been or is proposed to be incurred by an existing or proposed special district, entity, taxing area, assessment district, or community facilities district within the boundaries of which, the subdivision, or any part thereof, is located, and that is to pay for the construction or installation of any improvement or to furnish community or recreational facilities to that subdivision, and which amounts are to be obtained by ad valorem tax or assessment, or by a special assessment or tax upon the subdivision, or any part thereof.
(11) (A) As to each school district serving the subdivision, a statement from the appropriate district that indicates the location of each high school, junior high school, and elementary school serving the subdivision, or documentation that a statement to that effect has been requested from the appropriate school district.
(B) In the event that, as of the date the notice of intention and application for issuance of a public report are otherwise deemed to be qualitatively and substantially complete pursuant to Section 11010.2, the statement described in subparagraph (A) has not been provided by any school district serving the subdivision, the person who filed the
notice of intention and application for issuance of a public report shall
immediately provide the department with the name, address, and
telephone number of that district.

(12) (A) The location of all existing airports, and of all proposed
airports shown on the general plan of any city or county, located within
two statute miles of the subdivision. If the property is located within an
airport influence area, the following statement shall be included in the
notice of intention:

NOTICE OF AIRPORT IN VICINITY

This property is presently located in the vicinity of an airport,
within what is known as an airport influence area. For that reason, the
property may be subject to some of the annoyances or inconveniences
associated with proximity to airport operations (for example: noise,
vibration, or odors). Individual sensitivities to those annoyances can vary
from person to person. You may wish to consider what airport
annoyances, if any, are associated with the property before you complete
your purchase and determine whether they are acceptable to you.

(B) For purposes of this section, an “airport influence area,” also
known as an “airport referral area,” is the area in which current or future
airport-related noise, overflight, safety, or airspace protection factors
may significantly affect land uses or necessitate restrictions on those
uses as determined by an airport land use commission.

(13) A true statement, if applicable, referencing any soils or geologic
report or soils and geologic reports that have been prepared specifically
for the subdivision.

(14) A true statement of whether or not fill is used, or is proposed to
be used in the subdivision and a statement giving the name and the
location of the public agency where information concerning soil
conditions in the subdivision is available.

(15) Any other information that the owner, his or her agent, or the
subdivider may desire to present.

c) The commissioner may, by regulation, or on the basis of the
particular circumstances of a proposed offering, waive the requirement
of the submission of a completed questionnaire if the commissioner
determines that prospective purchasers or lessees of the subdivision
interests to be offered will be adequately protected through the issuance
of a public report based solely upon information contained in the notice
of intention.

SEC. 3. Section 1102.6 of the Civil Code is amended to read:
1102.6. The disclosures required by this article pertaining to the property proposed to be transferred are set forth in, and shall be made on a copy of, the following disclosure form:
Disclosures in
Real Property
Transactions
Sixth Edition
2005

ARNOLD SCHWARZENEGGER
Governor
State of California

DALE BONNER
Secretary
Business, Transportation and Housing Agency

JEFF DAVI
Commissioner
Department of Real Estate

2005 booklet was revised pursuant to a consulting contract with Wallace, Puccio & Garrett; Principal Author and Editor – S. Guy Puccio.
2. Real Estate Transfer Disclosure Statement

The Real Estate Transfer Disclosure Statement (TDS) describes the condition of a property and, in the case of a sale, must be given to a prospective buyer as soon as practicable and before transfer of title. In the case of a transfer by a real property sales contract (as defined in Civil Code Section 2985) by a lease coupled with an option to purchase, or by a ground lease coupled with improvements, the TDS is to be delivered before the execution of any of the foregoing.

The seller and any broker(s)/agent(s) involved are to participate in the disclosures. If more than one broker/agent is involved, the broker/agent obtaining the offer is to deliver the disclosures to the prospective buyer unless the seller instructs otherwise.

Delivery to the prospective buyer of a report or opinion prepared by a licensed engineer, land surveyor, geologist, structural pest control operator, contractor, or other expert (dealing with matters within the scope of the professional’s license or expertise) may limit the liability of the seller and the real estate broker(s)/agent(s) when making required disclosures. The overall intention is to provide meaningful disclosures about the condition of the property being sold or transferred.

(CAL. CIV. § 1102.4)

The following is the format of the Transfer Disclosure Statement:

REAL ESTATE TRANSFER DISCLOSURE STATEMENT

THIS DISCLOSURE STATEMENT CONCERNS THE REAL PROPERTY SITUATED IN THE CITY OF ________, COUNTY OF ________, STATE OF CALIFORNIA, DESCRIBED AS ______________. THIS STATEMENT IS A DISCLOSURE OF THE CONDITION OF THE ABOVE DESCRIBED PROPERTY IN COMPLIANCE WITH SECTION 1102 OF THE CIVIL CODE AS OF __________ , 20___. IT IS NOT A WARRANTY OF ANY KIND BY THE SELLER(S) OR ANY AGENT(S) REPRESENTING ANY PRINCIPAL(S) IN THIS TRANSACTION, AND IS NOT A SUBSTITUTE FOR ANY INSPECTIONS OR WARRANTIES THE PRINCIPAL(S) MAY WISH TO OBTAIN.

I

COORDINATION WITH OTHER DISCLOSURE FORMS

This Real Estate Transfer Disclosure Statement is made pursuant to Section 1102 of the Civil Code. Other statutes require disclosures, depending upon the details of the particular real estate transaction (for example: special study zone and purchase-money liens on residential property).

Substituted Disclosures: The following disclosures have or will be made in connection with this real estate transfer, and are intended to satisfy the disclosure obligations on this form, where the subject matter is the same:

☐ Inspection reports completed pursuant to the contract of sale or receipt for deposit.
☐ Additional inspection reports or disclosures:

________________________________________________________________

________________________________________________________________

________________________________________________________________

II

SELLER’S INFORMATION

The Seller discloses the following information with the knowledge that even though this is not a warranty, prospective Buyers may rely on this information in deciding whether and on what terms to purchase the subject property. Seller hereby authorizes any agent(s) representing any principal(s) in this transaction to provide a copy of this statement to any person or entity in connection with any actual or anticipated sale of the property.

THE FOLLOWING ARE REPRESENTATIONS MADE BY THE SELLER(S) AND ARE NOT THE REPRESENTATIONS OF THE AGENT(S), IF ANY. THIS INFORMATION IS A DISCLOSURE AND IS NOT INTENDED TO BE PART OF ANY CONTRACT BETWEEN THE BUYER AND SELLER.
Seller ___ is ___ is not occupying the property.

A. The subject property has the items checked below (read across):

____ Range ______ Oven ______ Microwave
____ Dishwasher ______ Trash Compactor ______ Garbage Disposal
____ Washer/Dryer Hookups ______ Rain Gutters
____ Burglar Alarms ______ Smoke Detector(s) ______ Fire Alarm
____ TV Antenna ______ Satellite Dish ______ Intercom
____ Central Heating ______ Central Air Cndtg. ______ Evaporative Cooler(s)
____ Wall/Window Air Cndtg. ______ Sprinklers ______ Public Sewer System
____ Septic Tank ______ Sump Pump ______ Water Softener
____ Patio/Decking ______ Built-in Barbecue ______ Gazebo
____ Sauna
____ Hot Tub ______ Locking Safety Cover*
____ Pool ______ Child Resistant Barrier* ______ Spa ______ Locking Safety Cover*
____ Security Gate(s) ______ Automatic Garage Door Opener(s)* ______ Number Remote Controls
Garage: ______ Attached ______ Not Attached ______ Carport
Pool/Spa Heater: ______ Gas ______ Solar ______ Electric
Water Heater: ______ Gas ______ Water Heater Anchored, Braced, or Strapped* ______ Private Utility or Other ________
Water Supply: ______ City ______ Well
Gas Supply: ______ Utility ______ Bottled
____ Window Screens ______ Window Security Bars
____ Quick Release Mechanism on Bedroom Windows*
Exhaust Fan(s) in ______ 220 Volt Wiring in ______ Fireplace(s) in ______
Gas Starter ________ Roof(s): Type: _______ Age: _______ (approx.)
Other: ___________________________________________________________

Are there, to the best of your (Seller's) knowledge, any of the above that are not in operating condition?
____ Yes ______ No. If yes, then describe.
(Attach additional sheets if necessary): ____________________________________________________________
__________________________________________________________________________________________
__________________________________________________________________________________________
__________________________________________________________________________________________
B. Are you (Seller) aware of any significant defects/malfunctions in any of the following? __ Yes __ No. If yes, check appropriate space(s) below.

___Interior Walls ___Ceilings ___Floors ___Exterior Walls ___Insulation ___Roof(s) ___Windows ___Doors
___Foundation ___Slab(s) ___Driveways ___Sidewalks ___Walls/Fences ___Electrical Systems
___Plumbing/Sewers/Septics ___Other

Structural Components (Describe: ___________________________________________)

________________________________________________________________

If any of the above is checked, explain. (Attach additional sheets if necessary): _

________________________________________________________________

________________________________________________________________

________________________________________________________________

*A This garage door opener or child resistant pool barrier may not be in compliance with the safety standards relating to automatic reversing devices as set forth in Chapter 12.5 (commencing with Section 19890) of Part 3 of Division 13 of, or with the pool safety standards of Article 2.5 (commencing with Section 115920) of Chapter 5 of Part 10 of Division 104 of, the Health and Safety Code. The water heater may not be anchored, braced, or strapped in accordance with Section 19211 of the Health and Safety Code. Window security bars may not have quick-release mechanisms in compliance with the 1995 Edition of the California Building Standards Code.

C. Are you (Seller) aware of any of the following:

1. Substances, materials or products which may be an environmental hazard such as, but not limited to, asbestos, formaldehyde, radon gas, lead-based paint, fuel or chemical storage tanks, and contaminated soil or water on the subject property .............................................................. __Yes __No

2. Features of the property shared in common with adjoining landowners, such as walls, fences, and driveways, whose use or responsibility for maintenance may have an effect on the subject property .............................................................. __Yes __No

3. Any encroachments, easements or similar matters that may affect your interest in the subject property .............................................................. __Yes __No

4. Room additions, structural modifications, or other alterations or repairs made without necessary permits ........ __Yes __No

5. Room additions, structural modifications, or other alterations or repairs not in compliance with building codes . __Yes __No

6. Fill (compacted or otherwise) on the property or any portion thereof.............................................................. __Yes __No

7. Any settling from any cause, or slippage, sliding, or other soil problems.............................................................. __Yes __No

8. Flooding, drainage or grading problems ...................................................... __Yes __No

9. Major damage to the property or any of the structures from fire, earthquake, floods, or landslides .............................................................. __Yes __No

10. Any zoning violations, nonconforming uses, violations of “setback” requirements .............................................................. __Yes __No

11. Neighborhood noise problems or other nuisances ...................... __Yes __No

12. CC&R’s or other deed restrictions or obligations ...................... __Yes __No

13. Homeowners’ Association which has any authority over the subject property .............................................................. __Yes __No

14. Any “common area” (facilities such as pools, tennis courts, walkways, or other areas co-owned in undivided interest __Yes __No
15. Any notices of abatement or citations against the property...  __Yes __No

16. Any lawsuits by or against the seller threatening to or affecting this real property, including any lawsuits alleging a defect or deficiency in this real property or "common areas" (facilities such as pools, tennis courts, walkways, or other areas co-owned in undivided interest with others) ............... __Yes __No

If the answer to any of these is yes, explain. (Attach additional sheets if necessary.)

____________________________________________________

____________________________________________________

Seller certifies that the information herein is true and correct to the best of the Seller's knowledge as of the date signed by the Seller.

Seller _________________________________ Date ____________________

Seller _________________________________ Date ____________________

III

AGENT'S INSPECTION DISCLOSURE

(To be completed only if the Seller is represented by an agent in this transaction.)

THE UNDERSIGNED, BASED ON THE ABOVE INQUIRY OF THE SELLER(S) AS TO THE CONDITION OF THE PROPERTY AND BASED ON A REASONABLY COMPETENT AND DILIGENT VISUAL INSPECTION OF THE ACCESSIBLE AREAS OF THE PROPERTY IN CONJUNCTION WITH THAT INQUIRY, STATES THE FOLLOWING:

☐ Agent notes no items for disclosure.

☐ Agent notes the following items:

________________________________________________________________

________________________________________________________________

________________________________________________________________

________________________________________________________________

Agent (Broker Representing Seller) ______________ By ________________ Date_______

(Please Print) (Associate Licensee or Broker-Signature)

IV

AGENT'S INSPECTION DISCLOSURE

(To be completed only if the agent who has obtained the offer is other than the agent above.)

THE UNDERSIGNED, BASED ON A REASONABLY COMPETENT AND DILIGENT VISUAL INSPECTION OF THE ACCESSIBLE AREAS OF THE PROPERTY, STATES THE FOLLOWING:

☐ Agent notes no items for disclosure.

☐ Agent notes the following items:

________________________________________________________________

________________________________________________________________

________________________________________________________________

________________________________________________________________

Agent (Broker Representing Seller) ______________ By ________________ Date_______
BUYER(S) AND SELLER(S) MAY WISH TO OBTAIN PROFESSIONAL ADVICE AND/OR INSPECTIONS OF THE PROPERTY AND TO PROVIDE FOR APPROPRIATE PROVISIONS IN A CONTRACT BETWEEN BUYER AND SELLER(S) WITH RESPECT TO ANY ADVICE/INSPECTIONS/DEFECTS.

I/WE ACKNOWLEDGE RECEIPT OF A COPY OF THIS STATEMENT

Seller __________________ Date ______ Buyer __________________ Date ______

Seller __________________ Date ______ Buyer __________________ Date ______

Agent (Broker Representing Seller) __________________ By __________________ Date ______

(Please Print) (Associate Licensee or Broker-Signature)

Agent (Broker Obtaining the Offer) __________________ By __________________ Date ______

(Please Print) (Associate Licensee or Broker-Signature)

SECTION 1102.3 OF THE CIVIL CODE PROVIDES A BUYER WITH THE RIGHT TO RESCIND A PURCHASE CONTRACT FOR AT LEAST THREE DAYS AFTER THE DELIVERY OF THIS DISCLOSURE IF DELIVERY OCCURS AFTER THE SIGNING OF AN OFFER TO PURCHASE. IF YOU WISH TO RESCIND THE CONTRACT, YOU MUST ACT WITHIN THE PRESCRIBED PERIOD.

A REAL ESTATE BROKER IS QUALIFIED TO ADVISE ON REAL ESTATE. IF YOU DESIRE LEGAL ADVICE, CONSULT YOUR ATTORNEY.

(CAL. CIV. § 1102 et. seq.)
SEC. 4. Section 1103.4 of the Civil Code is amended to read:

1103.4. (a) Neither the transferor nor any listing or selling agent shall be liable for any error, inaccuracy, or omission of any information delivered pursuant to this article if the error, inaccuracy, or omission was not within the personal knowledge of the transferor or the listing or selling agent, and was based on information timely provided by public agencies or by other persons providing information as specified in subdivision (c) that is required to be disclosed pursuant to this article, and ordinary care was exercised in obtaining and transmitting the information.

(b) The delivery of any information required to be disclosed by this article to a prospective transferee by a public agency or other person providing information required to be disclosed pursuant to this article shall be deemed to comply with the requirements of this article and shall relieve the transferor or any listing or selling agent of any further duty under this article with respect to that item of information.

(c) The delivery of a report or opinion prepared by a licensed engineer, land surveyor, geologist, or expert in natural hazard discovery dealing with matters within the scope of the professional’s license or expertise, shall be sufficient compliance for application of the exemption provided by subdivision (a) if the information is provided to the prospective transferee pursuant to a request therefor, whether written or oral. In responding to that request, an expert may indicate, in writing, an understanding that the information provided will be used in fulfilling the requirements of Section 1103.2 and, if so, shall indicate the required disclosures, or parts thereof, to which the information being furnished is applicable. Where that statement is furnished, the expert shall not be responsible for any items of information, or parts thereof, other than those expressly set forth in the statement. In responding to the request, the expert shall determine whether the property is within an airport influence area as defined in subdivision (b) of Section 11010 of the Business and Professions Code. If the property is within an airport influence area, the report shall contain the following statement:
NOTICE OF AIRPORT IN VICINITY

This property is presently located in the vicinity of an airport, within what is known as an airport influence area. For that reason, the property may be subject to some of the annoyances or inconveniences associated with proximity to airport operations (for example: noise, vibration, or odors). Individual sensitivities to those annoyances can vary from person to person. You may wish to consider what airport annoyances, if any, are associated with the property before you complete your purchase and determine whether they are acceptable to you.

SEC. 5. Section 1353 of the Civil Code is amended to read:

1353. (a) (1) A declaration, recorded on or after January 1, 1986, shall contain a legal description of the common interest development, and a statement that the common interest development is a community apartment project, condominium project, planned development, stock cooperative, or combination thereof. The declaration shall additionally set forth the name of the association and the restrictions on the use or enjoyment of any portion of the common interest development that are intended to be enforceable equitable servitudes. If the property is located within an airport influence area, a declaration, recorded after January 1, 2004, shall contain the following statement:

NOTICE OF AIRPORT IN VICINITY

This property is presently located in the vicinity of an airport, within what is known as an airport influence area. For that reason, the property may be subject to some of the annoyances or inconveniences associated with proximity to airport operations (for example: noise, vibration, or odors). Individual sensitivities to those annoyances can vary from person to person. You may wish to consider what airport annoyances, if any, are associated with the property before you complete your purchase and determine whether they are acceptable to you.

(2) For purposes of this section, an “airport influence area,” also known as an “airport referral area,” is the area in which current or future airport-related noise, overflight, safety, or airspace protection factors may significantly affect land uses or necessitate restrictions on those uses as determined by an airport land use commission.
(3) The statement in a declaration acknowledging that a property is located in an airport influence area does not constitute a title defect, lien, or encumbrance.

(b) The declaration may contain any other matters the original signator of the declaration or the owners consider appropriate.

SEC. 6. This act shall become operative on January 1, 2004.