

Chapter 1 Introduction

OVERVIEW OF THE PLAN.....	1-1
AIRPORT LAND USE COMPATIBILITY PLANNING	1-2
Purpose and Objective.....	1-2
Relationship between ALUCs and County and City Governments.....	1-2
COMPATIBILITY PLAN POLICY FRAMEWORK.....	1-3
State Laws and Guidelines.....	1-3
Compatibility Plan Relationship to Airport Plans.....	1-4
GENERAL PLAN CONSISTENCY.....	1-4
Overrule Process.....	1-4
Attaining Consistency	1-5
COMPATIBILITY PLANNING FOR MERCED COUNTY.....	1-6
Merced County Airport Land Use Commission.....	1-6
Sources of Information and Guidance.....	1-6
Plan Adoption	1-7
PLAN CONTENTS.....	1-7

Chapter 2 General Policies

1. GENERAL APPLICABILITY	2-1
1.1 Purpose and Use.....	2-1
1.2 Definitions.....	2-3
1.3 Geographic Scope.....	2-6
1.4 Types of Actions Subject to ALUC Review	2-7
1.5 Limitation of the ALUC and Compatibility Plan.....	2-10
2. REVIEW PROCESS	2-10
2.1 General.....	2-10
2.2 Review Process for Community Plans and Ordinances	2-11
2.3 Review Process for Major Land Use Actions.....	2-12
2.4 Review Process for Airport Master Plans and Development Plans.....	2-15
2.5 Overruling the ALUC	2-17
3. COMPATIBILITY CRITERIA FOR LAND USE ACTIONS.....	2-18
3.1 Basic Criteria.....	2-18
3.2 General Plan Consistencies with Compatibility Plan	2-19
4. COMPATIBILITY CRITERIA FOR AIRPORT PLANS	2-20
4.1 Review Criteria for Airport Plans of Existing Airports.....	2-20
4.2 Review Criteria for Proposed New Airport and Heliports	2-21
5. SPECIFIC COMPATIBILITY CRITERIA.....	2-22
5.1 Noise Criteria	2-22
5.2 Safety Criteria	2-24
5.3 Airspace Protection Criteria.....	2-28
5.4 Overflight Criteria	2-31
5.5 Special Conditions for Land Use Actions.....	2-34
<i>Table 2.A. Basic Compatibility Criteria</i>	<i>2-39</i>

Chapter 3 Individual Airport Policies and Compatibility Maps

CHAPTER OVERVIEW..... 3-1
Table 3A. Compatibility Zone Factors 3-3
 CAS. CASTLE AIRPORT 3-5
 CAS 1. Compatibility Policy Map ff 3-6
 CAS 2. Airspace Protection Map..... ff 3-6
 GUS. GUSTINE MUNICIPAL AIRPORT..... 3-7
 GUS 1. Compatibility Policy Map..... ff 3-8
 GUS 2. Airspace Protection Map ff 3-8
 LOS. LOS BANOS MUNICIPAL AIRPORT 3-9
 LOS 1. Compatibility Policy Map ff 3-10
 LOS 2. Airspace Protection Map..... ff 3-10
 MER. MERCED REGIONAL AIRPORT..... 3-11
 MER 1. Compatibility Policy Map..... ff 3-12
 MER 2. Airspace Protection Map ff 3-12
 TUR. TURLOCK MUNICIPAL AIRPORT..... 3-13
 TUR 1. Compatibility Policy Map..... ff 3-14
 TUR 2. Airspace Protection Map – Existing Runway..... ff 3-14
 TUR 3. Airspace Protection Map – Future Runway..... ff 3-14

Chapter 4 Background Data: Castle Airport and Environs

OVERVIEW 4-1
 EXISTING AIRFIELD SYSTEM 4-1
 AIRPORT PLANS 4-2
 Airport Master Plan Status 4-2
 Basis of Castle ALUCP 4-2
 Airspace Plan..... 4-2
 AIRCRAFT ACTIVITY DATA AND FORECASTS 4-3
 Existing Activity..... 4-3
 Master Plan Forecast 4-3
 Air Carrier Operations..... 4-3
 Air Cargo Operations..... 4-4
 General Aviation, Air Taxi and Military Operations 4-4
 Forecast for Basis of ALUCP 4-5
 Airport Environs..... 4-5
 City of Atwater 4-5
 City of Merced..... 4-5
 Merced County 4-6
Exhibits
 CAS-1 Airport Features Information 4-8
 CAS-2 Airport Layout Plan (ALP)..... ff 4-8
 CAS-3 Airport Activity Data 4-10
 CAS-4 Compatibility Factors Map..... ff 4-10
 CAS-5 Airport Environs Table..... 4-11
 CAS-6 Existing Land Uses..... ff 4-12

CAS-7a General Plan Land Uses – County ff 4-12
 CAS-7b General Plan Land Uses – City..... ff 4-12
 CAS-8 Zoning Designations ff 4-12
 CAS-9 Aerial Photo..... ff 4-12

Chapter 5 Background Data: Gustine Municipal Airport and Environs

OVERVIEW 5-1
 EXISTING AIRFIELD SYSTEM 5-1
 AIRPORT PLANS 5-1
 Airport Master Plan Status 5-1
 Basis of Gustine Municipal ALUCP 5-2
 Airspace Plan 5-2
 AIRCRAFT ACTIVITY DATA 5-2
 Airport Environs..... 5-3
 City of Gustine 5-3
 Merced County 5-3
Exhibits
 GUS-1 Airport Features Information 5-4
 GUS-2a Airport Layout Plan (ALP)..... ff 5-4
 GUS-2b Airport Layout Plan Detail..... ff 5-4
 GUS-3 Airport Activity Data 5-6
 GUS-4 Compatibility Factors Map..... ff 5-6
 GUS-5 Airport Environs Table..... 5-8
 GUS-6 Existing Land Uses ff 5-8
 GUS-7a General Plan Land Uses – County ff 5-8
 GUS-7b General Plan Land Uses – City..... ff 5-8
 GUS-8 Zoning Designations ff 5-8
 GUS-9 Aerial Photo..... ff 5-8

Chapter 6 Background Data: Los Banos Municipal Airport and Environs

OVERVIEW 6-1
 EXISTING AIRFIELD SYSTEM 6-1
 AIRPORT PLANS 6-1
 Airport Master Plan Status 6-1
 Basis of Los Banos Municipal ALUCP 6-2
 Airspace Plan 6-2
 AIRCRAFT ACTIVITY DATA 6-2
 Airport Environs..... 6-3
 City of Los Banos..... 6-3
 Merced County 6-3
Exhibits
 LOS-1 Airport Features Information 6-4
 LOS-2 Airport Layout Plan (ALP)..... ff 6-4
 LOS-3 Airport Activity Data 6-6
 LOS-4 Compatibility Factors Map..... ff 6-6
 LOS-5 Airport Environs Table..... 6-8

LOS-6 Existing Land Uses ff 6-8
 LOS-7a General Plan Land Uses – County ff 6-8
 LOS-7b General Plan Land Uses – City ff 6-8
 LOS-8 Zoning Designations ff 6-8
 LOS-9 Aerial Photo ff 6-8

Chapter 7 Background Data: Merced Regional Airport and Environs

OVERVIEW 7-1
 EXISTING AIRFIELD SYSTEM 7-1
 AIRPORT PLANS 7-2
 Airport Master Plan Status 7-2
 Basis of Merced Regional ALUCP 7-2
 Airspace Plan 7-2
 AIRCRAFT ACTIVITY DATA 7-2
 Existing Activity 7-2
 Activity Forecast 7-3
 Airport Environs 7-3
 City of Merced 7-3
 Merced County 7-4
Exhibits
 MER-1 Airport Features Information 7-6
 MER-2 Airport Layout Plan (ALP) ff 7-6
 MER-3 Airport Activity Data 7-8
 MER-4 Compatibility Factors Map ff 7-8
 MER-5 Airport Environs Table 7-10
 MER-6 Existing Land Uses ff 7-10
 MER-7a General Plan Land Uses – County ff 7-10
 MER-7b General Plan Land Uses – City ff 7-10
 MER-8 Zoning Designations ff 7-10
 MER-9 Aerial Photo ff 7-10

Chapter 8 Background Data: Turlock Municipal Airport and Environs

OVERVIEW 8-1
 AIRFIELD SYSTEM 8-1
 AIRPORT PLANS 8-1
 Airport Master Plan Status 8-1
 Basis of Turlock Municipal ALUCP 8-2
 Airspace Plan 8-2
 AIRCRAFT ACTIVITY DATA 8-2
 Airport Environs 8-2
 Merced County 8-3
 Stanislaus County 8-3
Exhibits
 TUR-1 Airport Features Information 8-4
 TUR-2 Airport Layout Plan (ALP) ff 8-4

TUR-3 Airport Activity Data 8-6
 TUR-4 Compatibility Factors Map..... ff 8-6
 TUR-5 Airport Environs Table..... 8-8
 TUR-6 Existing Land Uses..... ff 8-8
 TUR-7 General Plan Land Uses..... ff 8-8
 TUR-8 Zoning Designations ff 8-8
 TUR-9 Aerial Photo..... ff 8-8

Appendices

A Foundations of Airport Land Use Compatibility Planning
B State Laws Related to Airport Land Use Planning
C Federal Aviation Regulations Part 77
 Exhibit C1 – FAR Part 77 Imaginary Surfaces
 Exhibit C2 – FAR Part 77 Notification
 Exhibit C3 – Online Submittal of Form 7460-1
D Airport Land Use Compatibility Concepts
 Table D1 – Safety Zone Aircraft Accident Risk Characteristics
 Figure D1 – Noise Footprints of Selected Aircraft
 Figure D2 – General Aviation Accident Distribution Contours: All Arrivals
 Figure D3 – General Aviation Accident Distribution Contours: All Departures
E Methods for Determining Concentrations of People
 Table E1 – Occupant Load Factors
F General Plan Consistency Checklist
G Sample Implementation Documents
 Table G1 – Sample Airport Combining Zone Components
 Table G2 – Typical Avigation Easement
 Table G3 – Sample Recorded Overflight Notification
H Project Referral Form
I Glossary of Terms