

Table of Contents

Chapter 1 – Introduction and Baseline Conditions	1-1
Introduction to the Study.....	1-1
Baseline Conditions.....	1-3
1.1 Introduction to North Central State Airport.....	1-3
1.2 Inventory of Airfield Conditions.....	1-7
1.3 Inventory of Operational Activity.....	1-29
1.4 Environmental Inventory.....	1-33
1.5 Inventory of Economic Conditions.....	1-55
Chapter 2 – Precision Approach Feasibility	2-1
2.1 Wide Area Augmentation System.....	2-1
2.2 Preparing for an LPV Approach at SFZ.....	2-5
2.3 Recommendation and Next Steps.....	2-13
Chapter 3 – Airport Role and Forecasts	3-1
3.1 Forecast Methodologies and Data.....	3-1
3.2 Demand Factors.....	3-10
3.3 Activity Forecasts.....	3-13
3.4 Airport Role.....	3-19
3.5 Recommended Forecast.....	3-22
Chapter 4 – Facility Requirements	4-1
4.1 Airport Runway and Taxiway System Analysis.....	4-1
4.2 General Aviation (GA) and Support Facility Analysis.....	4-14
4.3 Summary of Airport Facility Requirements.....	4-21
Chapter 5 – Alternatives Analysis	5-1
5.1 Airport Runway System Alternatives.....	5-2
5.2 Runway Approach and Lighting Alternatives.....	5-3
5.3 Airport Taxiway System Alternatives.....	5-6
5.4 Apron Area Alternatives.....	5-7
5.5 Old Terminal Building Alternatives.....	5-10
5.6 Conventional Hangar and T-Hangar Alternatives.....	5-11
5.7 Snow Removal Equipment (SRE) Building Alternatives.....	5-14
5.8 Fuel Farm relocation Alternatives.....	5-15
5.9 Automobile Parking Areas and Access Alternatives.....	5-17
5.10 Additional Alternatives.....	5-19
5.11 Airport Performance.....	5-22
5.12 Airport Alternatives Matrix.....	5-24
5.13 Preferred Alternative and Conceptual Layout Plan.....	5-26
Chapter 6 – Airport Layout Plan	6-1
Chapter 7 – Environmental Review	7-1
Chapter 8 – Implementation Plan	8-1
8.1 Introduction.....	8-1
8.2 Phase I (2010-2014) Development.....	8-3
8.3 Phase II (2015-2019) Development.....	8-4
8.3 Phase III (2020-2029) Development.....	8-5
8.4 Financial Resources.....	8-8

Appendices