

Table of Contents



Florida Aviation System Plan 2043 Table of Contents

Abbreviations and Acronyms

Chapter 1 – Study Introduction

1.1	Florida Aviation System Plan 2043 Purpose	1
1.2	Roles of the Districts and Continuing Florida Aviation System Planning Process (CFASPP).....	1
1.3	FASP 2043 Process.....	6
1.3.1	Phase 1	6
1.3.2	Phase 2	6
1.3.3	Phase 3	6
1.4	Stakeholder Engagement Plan	7
1.5	Summary.....	7

Chapter 2 – History and Recent Impacts

2.1	History of Florida Aviation	1
2.2	Previous FASPs	1
2.3	COVID-19 Pandemic Impacts	2
2.4	Summary.....	3

Chapter 3 – Airport System NPIAS Classifications

3.1	National Plan of Integrated Airport Systems Analysis (NPIAS)	1
3.1.1	Background on the NPIAS	1
3.1.2	The National Airport System	2
3.1.3	NPIAS Service Levels	2
3.1.4	NPIAS Roles	3
3.1.5	NPIAS Eligibility Criteria.....	4
3.2	Florida's Airport System	7
3.3	Funding Implications of NPIAS Roles and Service Levels	12
3.3.1	AIP Funding Levels	12
3.3.2	Supplemental Funding and COVID Programs.....	13
3.4	Assessment of Florida's Non-NPIAS Facilities	15
3.4.1	Buchan Airport	16
3.4.2	Carabelle-Thompson Airport.....	18
3.4.3	Pierson Municipal Airport	20

Florida Aviation System Plan 2043 Table of Contents

3.4.4	St. Cloud Seaplane Base.....	22
3.4.5	Tavares Seaplane Base.....	24
3.4.6	Wakulla County Airport	26
3.4.7	Downtown Fort Lauderdale Heliport	28
3.5	Airports at Risk of Unclassified Status	29
3.6	Summary.....	30

Chapter 4 – System Goals

4.1	Definition of Goals, Objectives, and Performance Measures	1
4.1.1	Goals.....	1
4.1.2	Objectives	2
4.1.3	Performance Measures.....	2
4.2	Recommended Goals, Objectives, and Performance Measures.....	2

Chapter 5 – Data Collection and Inventory

5.1	Phase 1 Florida Department of Transportation (FDOT) and Industry Surveys	1
5.1.1	FDOT AO Staff Surveys.....	1
5.1.2	Airport Management Survey	1
5.2	Phase 1 Review of Existing Documents	4
5.2.1	Florida Related Documents	4
5.2.2	ACRP Report 223: <i>Performance Measures for State Aviation Agencies</i>	4
5.2.3	Summary of Other Documents	5
5.3	Phase 1 Initial Data Collection Process	5
5.4	Phase 2 Airport Surveys	5

Chapter 6 – Aviation Activity Forecasts

6.1	Forecast Methodologies.....	1
6.2	Recommended Forecast Scenarios.....	2
6.2.1	Based Aircraft.....	2
6.2.2	General Aviation (GA) Operations	3
6.2.3	Commercial/Air Taxi Operations	4
6.2.4	Enplanements	5
6.3	Forecast Summary.....	6

Chapter 7 – System Analysis

7.1	Performance Metrics Analysis	1
7.2	Safety Metrics	1
7.2.1	FAA Runway and Taxiway Design Standards	2
7.2.2	FAA-Designated Hot Spots.....	6
7.3	Operational Metrics	8
7.3.1	Based Aircraft.....	8
7.3.2	Annual Operations	11
7.3.3	Annual Enplanements.....	13
7.3.4	Tonnage of Air Cargo Shipped	14
7.3.5	Airport Capacity Related Projects.....	15
7.3.6	Hangar Occupancy Rate.....	17
7.4	Facility and Service Status Metrics	20
7.4.1	Airport Runway Surface Type	20
7.4.2	Pavement Condition Index (PCI) of Primary Runways and Primary Taxiways	20
7.4.3	Airport Instrument Approach Procedures.....	23
7.4.4	Airport Fueling.....	25
7.4.5	Broadband Access.....	31
7.4.6	Back Up Power for Terminals, Airfield Lighting, and Fueling	32
7.4.7	Airports That Provide Alternative Weather Reporting.....	33
7.5	Planning and Administration Metrics.....	34
7.5.1	Airports Master Plans, Airport Layout Plans (ALPs), and Property Maps	34
7.5.2	Airport Stormwater Management Plans (SWMP)	38
7.5.3	Airport Minimum Standards	39
7.5.4	Airport Rules and Regulations	40
7.5.5	DBE Plans.....	41
7.5.6	Wildlife Hazard Management Plan (WHMPs).....	42
7.5.7	Florida Chapter 333 Airport Zoning.....	43
7.6	Development Metrics	44
7.6.1	Airports Using Renewable Energy Sources.....	44
7.6.2	Vehicle Charging Opportunities	45
7.6.3	Airports Development Sites	48
7.6.4	Airport Inspection Corrective Actions.....	49
7.7	Geographic System Analysis	51
7.7.1	Full System Analysis	51
7.7.2	Airports with Runways of 5,000 feet or Longer.....	54

7.7.3	Commercial Business Aviation	55
7.7.4	Airports with Instrument Approach Procedures	57
7.7.5	Airports with Fuel Service	61
7.7.6	Airports with Based Flight Training	65
7.7.7	Airports Expected to Serve Urban Air Mobility.....	66
7.8	Summary	67

Chapter 8 – Aviation Office Initiatives

8.1	Alternative Weather Reporting	1
8.1.1	Florida Aviation System Weather Reporting Coverage	2
8.2	Airport Electrification	4
8.2.1	Electric Ground Transportation	5
8.2.2	Electric Aircraft.....	5
8.2.3	Design Standards and Guidance	6
8.2.4	Electric Vehicle and Aircraft Infrastructure.....	6
8.2.5	Electrification Trends at Florida Airports	7
8.2.6	Sources of Funding	10
8.2.7	Summary of FDOT AO and Electrification of Airports.....	10
8.3	Hangar Vacancy.....	11
8.3.1	Hangar Inventory.....	11
8.3.2	Projected 20-Year Hangar Demand by FDOT District & Conclusions.....	12
8.4	Stormwater Management Plans.....	13
8.4.1	Stormwater Management Plan Inventory and Data Collection Results.....	13
8.4.2	Next Steps for SWMPs	15
8.5	Summary of Aviation Office Initiatives	16

Chapter 9 – Funding

9.1	Federal Sources of Airport Funding	1
9.1.1	Airport Improvement Program (AIP)	1
9.1.2	Supplemental Discretionary Grant Funding.....	1
9.1.3	Bipartisan Infrastructure Law Funding	2
9.2	State Sources of Airport Funding.....	2
9.2.1	State Transportation Trust Fund (STTF).....	3
9.2.2	State Infrastructure Bank (SIB).....	4
9.2.3	Transportation Regional Incentive Program (TRIP).....	4
9.2.4	Economic Development Transportation Fund (EDTF).....	4

Florida Aviation System Plan 2043 Table of Contents

9.2.5	Rural Economic Development Initiative (REDI)	5
9.2.6	Secure Airports for Florida's Economy (SAFE) Funds	5
9.3	Local Sources of Airport Funding.....	5
9.3.1	Passenger Facility Charges (PFCs).....	5
9.3.2	Airport Generated Revenue	5
9.3.3	Bonds	6
9.3.4	Sponsor Funding.....	6
9.4	Florida Airports Funding Needs	6
9.5	Summary	8

Chapter 10 – Recommendations

10.1	Recommendations from NPIAS Evaluation	1
10.2	Recommendations from Performance Measures	2
10.2.1	FAA Airfield Design Standards	2
10.2.2	Pavement Maintenance	3
10.2.3	Backup Power	4
10.2.4	Airport Planning Studies	5
10.3	Geographic Analysis Recommendations	6
10.3.1	Flight Coverage by Airports with Instrument Approach Procedures	6
10.3.2	Flight Coverage by Airports with Fuel Service	7
10.4	Recommendations for FDOT AO Initiatives.....	9
10.4.1	Alternative Weather Reporting	9
10.4.2	Airport Electrification	10
10.4.3	Hangar Vacancy.....	11
10.4.4	Stormwater Management Plans.....	12
10.5	Summary	12

Appendices

- Appendix A
- Appendix B
- Appendix C
- Appendix D
- Appendix E
- Appendix F
- Appendix G
- Appendix H
- Appendix I

Appendix J

Appendix K

Appendix L

Appendix M