

Statewide - Aviation Systems Plan Update

FY2012 Request: \$2,500,000

Reference No: 36241

AP/AL: Allocation

Project Type: Research / Studies / Planning

Category: Transportation

Location: Statewide

House District: Statewide (HD 1-40)

Impact House District: Statewide (HD 1-40)

Contact: Marc Luiken

Estimated Project Dates: 07/01/2011 - 06/30/2018

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Appropriation: Airport Improvement Program

Brief Summary and Statement of Need:

Conduct planning and analysis related to improving the safety and capacity of the state aviation system as well as associated environmental and public concerns. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage, by improving the mobility of people and goods and by increasing private investment.

Funding:	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	Total
Fed Rcpts	\$2,500,000						\$2,500,000
Total:	\$2,500,000	\$0	\$0	\$0	\$0	\$0	\$2,500,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Additional Information / Prior Funding History:

\$3,700,000 - Ch 43 SLA 2010 Sec 7 pg 40 ln 28; \$1,500,000 - Ch 15 SLA 2009 Sec 1 pg 26 ln 14; \$3,600,000 - Ch 29 SLA 2008 Sec 4 pg 8 ln 19; \$4,500,000 - Ch 30 SLA 2007 Sec 4 pg 108 ln 11; \$2,500,000 - Ch 82 SLA 2006 Sec 1 pg 91 ln 33; \$2,700,000 - Ch 159 SLA 2004 Sec 1 pg 39 ln 12; \$600,000 - Ch 82 SLA 2003 Sec 1 pg 41 ln 26; \$2,200,000 - Ch 1 SSSLA 2002 Sec 1 pg 56 ln 12; \$700,000 - Ch 1 FSSLA 2001 Sec 1 pg 31 ln 27. This is an on-going program.

Project Description/Justification:

This project consists of the following planning tasks associated with the managing and improving the state's aviation infrastructure.

1. Continuous update of the 1996 Alaska Aviation System Plan as required by FAA, including inventory of current system, identification of system needs, forecast demand and other elements as outlined in FAA Advisory Circular 150/5070-7.
2. Develop and maintain a continuously updated list of prioritized projects and a multi-year spending plan.
3. Develop and review state policies regarding airport improvements, maintenance and operations.
3. Continue development of a pavement management system to establish pavement condition index baselines, amount and direction of change and identify pavement rehabilitation needs.
4. Develop updated Airport Layout Plans including land use, airport property maps, and land

occupancy drawings for selected airports.

5. Acquire aerial imagery at selected airports.
6. Develop digital elevation models of select air corridors and airports.
7. Evaluate and update aviation design, construction, and maintenance standards.
8. Develop aviation plans to address regional aviation issues of special concern.
9. Evaluate Runway Safety Area development practicability at selected airports.
10. Evaluate and participate in implementation of the Capstone program.
11. Develop and maintain interactive computer assisted training for Part 139 Certificated airports.
12. Evaluate penetrations to imaginary airspace surfaces surrounding airports.
13. Wildlife hazard assessment, evaluations and wildlife hazard management plans at selected airports.
14. Develop aviation related information in electronic, digital, internet accessible and/or geographic information system (GIS) format and convert existing older paper based information to these formats.
15. Evaluate runway lighting requirements and technical issues.
16. Update signage, land use, land occupancy, and runway safety area management plans.
17. Undertake noise analysis at selected airports.
18. Continue to support availability and disparity studies as required to comply with Disadvantaged Business Enterprise (DBE) requirements.
19. Develop an analysis of airport improvement accomplishments and remaining needs to meet current standards and evaluate potential changes to standards.
20. Coordinate and fund legal research and determinations for statewide aviation issues.
21. Fund training as required at certificated airports, to the extent training may be an eligible use of AIP funding.
22. Evaluate other funding sources.
23. Evaluate changing demographics and fuel costs on system usage.
24. Update 5010 airport Master Records.
25. Evaluate document management solutions for aviation related information.
26. Evaluate and analyze system wide need for aeronautical surveys.
27. Evaluate benefits and costs of implementing potential new federal security requirements.
28. Evaluate and analyze maintenance and operations needs and requirements.
29. Fund other aviation planning work as needed.

The State owns or operates approximately 253 rural system airports. Some of these airports are highly regulated Part 139 certificated airports. Most State owned airports have federal funding obligations that create additional management and grant compliance issues. Many of these airports are substandard and need improvement. The State seeks federal Airport Improvement Program (AIP) funding for these improvements. For example, in the years FFY 2003 and 2010 the department respectively received annually approximately \$123 to \$176 million in AIP funding annually for rural system airport improvements. There is a need to convert paper based information to digital information to improve and make more efficient access by the public and other information users. Recent advances in satellite based technology such as the global positioning system (GPS) and other electronic navigation equipment are creating additional demands for nighttime and Instrument Flight Rule aircraft operations. This places additional demands and expectations by airport users, the FAA and the general public on DOT&PF, which all create the need for a significant level of continuous aviation system planning work.

