

Aircraft and Vessel Repair and Maintenance**FY2009 Request: \$1,000,000****Reference No: 6121****AP/AL:** Appropriation**Project Type:** Renewal and Replacement**Category:** Public Protection**Location:** Statewide**Contact:** Dan Spencer, Director, Administrative Services**House District:** Statewide (HD 1-40)**Contact Phone:** (907)465-5488**Estimated Project Dates:** 07/01/2008 - 12/31/2009**Brief Summary and Statement of Need:**

The Department of Public Safety (DPS) annually requests repair and maintenance funds for department aircraft and vessels. These assets are crucial tools used to achieve the department's mission.

These funds are for the repair and maintenance requirements of this department's aircraft and vessel fleet. For example, funds are used to rebuild vessel and aircraft engines and components when they reach the limits of safe useful life. Large marine diesel engines and aircraft engines may require expert vendors to rebuild them. Many other components of vessels and aircraft must be maintained or replaced routinely to ensure safe operating conditions and to comply with various safety regulations.

Funding:	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	Total
Gen Fund	\$1,000,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$7,500,000
Total:	\$1,000,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$7,500,000

<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:

Ch 30, SLA 2007, Page 101, Line 19-20 \$900,000
 Ch 82, SLA 2006, Page 81, Line 6-7 \$1,300,000
 Ch 3, FSSSLA 2005, Page 63, Line 14-15 \$1,800,000
 Ch 159, SLA 2004, \$749,600
 Ch 82, SLA 2003, \$1,652,400
 Ch 1, SLA 2002, \$1,200,000
 Ch 61, SLA 2001, \$900,000; Sec 74(c), Ch 61, SLA 2001, \$300,000
 Ch 135, SLA 2000, \$1,063,780
 Ch 2, SLA 1999, \$975,000.
 Ch 139, SLA 1998, \$1,221,500.
 Ch 100, SLA 1997, \$600,000
 Ch 123, SLA 1996, \$750,000

Project Description/Justification:

The Department of Public Safety (DPS) annually requests repair and maintenance funds for the department's aircraft and vessels. These funds are for these repair and maintenance requirements.

AIRCRAFT REPAIRS

This project allows for the annual purchase of equipment needed to replace some of the worn-out or obsolete equipment such as radios, landing gear, etc. It will purchase overhauls and repairs to department aircraft airframes, landing gear, and engines on an annual schedule. This is necessary to ensure the aircraft are airworthy, safe, and dependable.

For the department to carry out its public safety, law enforcement, and search and rescue responsibilities, it is essential that its aircraft be maintained in an airworthy, safe, and dependable condition. A minimum level of flying hours must be maintained to meet the department's enforcement objectives. Without adequate aircraft support, many aspects of the Alaska State Troopers' public safety and wildlife law enforcement efforts would be seriously impaired.

The aircraft section has maintenance responsibility for DPS aircraft, including maintenance and replacement of engines, propellers, airframes, and electronics. FAA requirements must be met. Frequent maintenance, parts replacement, and re-fabrication are required. Adequate funding is essential to maintain a regularly scheduled overhaul and repair cycle for department aircraft. Routine aircraft maintenance is especially critical as the time between airframe overhauls increase. Cessna aircraft and Piper Cubs should receive an overhaul of the airframe every seven years, especially when operating in a corrosive saltwater environment. In fresh water and inland areas, these airplanes should be overhauled every 14 years or 5,000 hours, whichever comes first. Any corrosion renders the aircraft no longer airworthy by manufacturer's standards and FAA regulations. Overhauling the airframes and landing gear extends the life of the equipment and ensures the safe structural condition of the aircraft.

VESSEL REPAIRS

This project allows for some of the needed repairs, conversions, servicing, and maintenance for department vessels to ensure their safe and dependable operations during FY2009 and beyond. Routine preventative and annually scheduled maintenance for vessels of all sizes is necessary and cost efficient. As the operational life of some of the vessels is extended, maintenance becomes critical to the safety of the vessels and the crew. This project also allows for the purchase of equipment needed to replace worn out or obsolete equipment such as marine radios, global positioning systems, outboard engines, etc. This is necessary to ensure that DPS vessels are seaworthy, safe, dependable, and meet the needs of the public safety mission.

Alaska's fisheries are changing and the patrol emphasis for the smaller vessels is taking on new roles, including increased patrols relating to federal marine enforcement and homeland security concerns. All vessels are used for commercial fisheries enforcement and other trooper duties including search and rescue missions. Many of the larger vessels patrol the high seas all year, from southeast Alaska to the Gulf of Alaska to the Bering Sea, in all weather and sea conditions. To patrol these fisheries in safe and dependable vessels, the department must provide a planned, scheduled maintenance program. The increasing demand in operations also affects small vessel maintenance needs.

Maintaining the fleet is an ongoing process requiring the department to forecast needs based on prudent mariner practices, equipment manufacturer recommendations, and normal wear and tear. Deferred projects are weighed against newer concerns to determine the final priority listing for needed maintenance.

Of the 18 vessels 25' and larger, one is 18 years old. The 25-year-old 121' *P/V Woldstad*, based in Kodiak, is the oldest in the fleet and has the most diverse patrol area. As the age of a vessel increases, so do maintenance and repair costs and the frequency of breakdowns. Sufficient funding must be available to maintain the vessels on a regular schedule. The Dutch Harbor based 156' *P/V Stimson* is the largest vessel in the fleet and the only enforcement vessel in its class. It requires substantial maintenance to maintain its systems. The Ketchikan based *P/V Enforcer* is the newest large member of the fleet.

DOCUMENTATION OF ESTIMATED CAPITAL COSTS

The information below is based on projected maintenance needs at the time this document was written. Changing circumstances, equipment failure, etc., may result in reallocation of funds within the aircraft and vessel fleet as needed.

AIRCRAFT REPAIRS

Float replacement	\$70,000
Super Cub (engines, propellers, and rebuilds)	\$270,000
Cessna 185 (rebuilds)	\$60,000
King Air & Caravan (paint)	<u>\$50,000</u>
Total Aircraft Repairs Request	\$450,000

VESSEL REPAIRS

<i>P/V Stimson</i> (engine/generator overhaul, upgrade cooling system, deck crane repairs, replace propellers)	\$100,000
<i>P/V Woldstad</i> (engine and generator overhaul)	\$250,000
Annual crane inspections and emergency/critical parts	\$50,000
Medium-sized vessels (maintenance, parts, outboard motor replacements, and haul outs)	\$100,000
Marine architect contract and emergency repairs and maintenance	<u>\$50,000</u>
Total Vessel Repair Request	\$550,000