

Aircraft and Vessel Repair and Maintenance**FY2012 Request: \$850,000****Reference No: 6121****AP/AL:** Appropriation**Project Type:** Renewal and Replacement**Category:** Public Protection**Location:** Statewide**House District:** Statewide (HD 1-40)**Impact House District:** Statewide (HD 1-40)**Contact:** Dan Spencer, Director,
Administrative Services**Estimated Project Dates:** 07/01/2011 - 06/30/2016 **Contact Phone:** (907)465-5488**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 to ensure public safety and enforce fish and wildlife laws.

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. 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:	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	Total
Gen Fund	\$850,000						\$850,000
Total:	\$850,000	\$0	\$0	\$0	\$0	\$0	\$850,000

<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 135, SLA 2000, P 18, L 12-13 \$1,063.8
 Ch 61, SSSLA 2001, P23, L 11-12 \$900.0; Sec 74(c), Ch 61, SLA 2001, \$300.0
 Ch 1, SSSLA 2002, P 44, L 27-28 \$1,200.0
 Ch 82, SLA 2003, P 32, L 30-31 \$1,652.4
 Ch 159, SLA 2004, P 32, L 7-8 \$749.6
 Ch 3, FSSSLA 2005, P 63, L 14-15 \$1,800.0
 Ch 82, SLA 2006, P 81, L 6-7 \$1,300.0
 Ch 30, SLA 2007, P 101, L 19-20 \$900.0
 Ch 29, SLA 2008, P 73, L 31-32 \$1,000.0
 Ch15, SLA2009, P 18, L 18 \$600.0
 Ch 43, SLA2010, P 32, Ln 14 \$850.0

Project Description/Justification:

State of Alaska Capital Project Summary
 FY11&12 SB46 Combined Enacted
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The Department of Public Safety (DPS) annually requests repair and maintenance funds for the department's aircraft and vessels.

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, dependable, and in compliance with federal regulations.

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' and Alaska Wildlife 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. Federal Aviation Administration (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 manufacturers' 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 FY2012 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, 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 expanded roles, including increased patrols relating to federal marine enforcement and homeland security concerns. All vessels are used for commercial fisheries, sport fish, and big game hunting 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 Kotzebue Sound, in all weather and sea conditions. To patrol these fisheries in safe and dependable vessels, the DPS 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 17 vessels 25-foot and larger, one is the 21 year old *P/V Stimson*. The 28-year-old 121-foot *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. The main engines of the *P/V Woldstad* are nearing their useful life and need to be replaced, as repair parts for the old engines have to be manufactured at an extremely high cost. New engines will be nearly 25 percent more fuel efficient and scheduled maintenance costs will also be drastically reduced. The complex and outdated shaft and hydraulic propeller system must be replaced with conventional shafts and propellers at this time, as routine repairs are becoming exorbitant. Sufficient funding must be available to maintain the vessels on a regular schedule. The Dutch Harbor based 156-foot *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 84-foot *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

Piper PA18 rebuild/overhaul (2)	\$300,000
Spare replacement parts	\$50,000
Emergency repairs	\$50,000
Total aircraft request	\$400,000

VESSEL REPAIRS

P/V Enforcer Shipyard	\$350,000
Scheduled motor maintenance	\$50,000
Spare replacement parts	\$50,000
Total vessel request	\$450,000