

Aircraft and Vessel Repair and Maintenance

FY2015 Request: \$1,000,000

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

Estimated Project Dates: 07/01/2014 - 06/30/2019

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Brief Summary and Statement of Need:

This annual project provides repair and maintenance for the Department of Public Safety's 44 aircraft and 41 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 used to rebuild vessel and aircraft engines and components when they reach the limits of safe useful life.

Funding:	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>Total</u>
Gen Fund	\$1,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$8,500,000
Total:	\$1,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$8,500,000

<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

Prior Funding History / Additional Information:

- Sec1 Ch16 SLA2013 P74 L27 SB18 \$1,500,000
- Sec1 Ch17 SLA2012 P127 L29 SB160 \$869,800
- Sec1 Ch5 SLA2011 P95 L24 SB46 \$850,000
- Sec7 Ch43 SLA2010 P32 L14 SB230 \$850,000
- Sec1 Ch15 SLA2009 P18 L18 SB75 \$600,000
- Sec1 Ch29 SLA2008 P73 L31 SB221 \$1,000,000
- Sec1 Ch30 SLA2007 P101 L19 SB53 \$900,000
- Sec1 Ch82 SLA2006 P81 L6 SB231 \$1,300,000
- Sec1 Ch3 SLA2005 P63 L14 SB46 \$1,800,000
- Sec1 Ch159 SLA2004 P32 L7 SB283 \$749,600
- Sec1 Ch82 SLA2003 P32 L30 SB100 \$1,652,400
- Sec1 Ch1 SLA2002 P44 L27 SB2006 \$1,200,000
- Sec1 Ch61 SLA2001 P23 L11 SB29 \$900,000

Project Description/Justification:

Many components of vessels and aircraft must be maintained or replaced routinely to ensure safe operating conditions and to comply with various safety regulations.

Aircraft Repairs:

This project allows for the annual replacement of worn-out or obsolete equipment such as radios and landing gear. It provides funding for overhauls and repairs to department aircraft airframes and engines on an annual schedule. This is necessary to ensure the aircraft are airworthy, safe, dependable, and in compliance with federal regulations.

The aircraft section is responsible for maintaining department aircraft, including maintenance and replacement of engines, propellers, airframes, and electronics, and for ensuring Federal Aviation Administration (FAA) requirements are met. Frequent maintenance, parts replacement, and re-fabrication are required. Maintaining a regularly scheduled overhaul and repair cycle for department aircraft is essential. 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. 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 allows for replacement of worn out or obsolete equipment such as marine radios, global positioning systems, engines, etc. This is necessary to ensure 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. The increasing demand in operations also affects small vessel maintenance needs. 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 department must provide a planned, scheduled maintenance program.

Maintaining the fleet is an ongoing process requiring a forecast of 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.

The information below is based on projected maintenance needs. Changing circumstances, equipment failure, etc., may result in reallocation of funds within the aircraft and vessel fleet as needed. Operating personal services may be charged to this capital appropriation to coordinate and accomplish the repairs and maintenance needed.

Aircraft Repairs

Project	Total Cost
King Air 350/New helicopter parts	180.5
King Air 200 gear repairs	20.9
2 Aircraft engine overhauls	84.8
2 Piper Cub rebuilds	360.0
2 Piper Cub new engines	50.0
2 Cessna propeller overhauls	17.0
Paint aging Cessna Caravan	90.0
2 Re-wire Cessna 185 aircraft	60.2
Total	863.4

Vessel Repairs

Project	Total Cost
P/V Stimson crane replacement (Dutch Harbor)	160.0
Detachment vessel maintenance (statewide)	200.0
P/V Stimson generator rebuild	35.0
P/V Stimson replace aging radar system	25.0
P/V Stimson centrifuge MAB	11.5
P/V Stimson anchor/windlass	45.0
Marine engineering services, contract	25.0
P/V Enforcer replace aging FLIR (Ketchikan)	20.0
P/V Camai rebuild crane (Kodiak)	25.0
P/V Enforcer replace forward crane	90.0
Total	636.5