

Aircraft and Vessel Repair and Maintenance**FY2014 Request: \$1,800,000****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:** Jeff Hoover**Estimated Project Dates:** 07/01/2013 - 06/30/2018 **Contact Phone:** (907)465-5488**Brief Summary and Statement of Need:**

This annual project provides repair and maintenance for the Department of Public Safety's 44 aircraft and 39 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: | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | Total |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
| Gen Fund | \$1,800,000 | \$2,500,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$12,300,000 |
| Total: | \$1,800,000 | \$2,500,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$12,300,000 |

| | | | | |
|---|---|---------------------------------------|---|--|
| <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 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 purchase of equipment needed to replace some of the worn-out or obsolete equipment such as radios, landing gear, etc. It will provide funding for 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.

The aircraft section has maintenance responsibility for department 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. 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 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 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 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 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.

Aircraft Repairs

| | |
|--|-----------|
| Piper PA18 Rebuild/Overhaul (4 Aircraft) | \$700,000 |
| New King Air & Helicopter Spare Parts | \$100,000 |
| Total Aircraft Repair & Maintenance | \$800,000 |

Vessel Repairs

| | |
|--|-------------|
| P/V Stimson Maintenance Shipyard & Mains Rebuild | \$650,000 |
| P/V Camai Maintenance Shipyard | \$150,000 |
| Marine Engineering Contract | \$75,000 |
| P/V Stimson Crane Replacement | \$125,000 |
| Total Marine Repair & Maintenance | \$1,000,000 |