

Alaska Aerospace Corporation Maintenance

FY2014 Request: \$900,000
Reference No: 57102

AP/AL: Appropriation **Project Type:** Deferred Maintenance
Category: Public Protection
Location: Kodiak **House District:** Kodiak/Cordova (HD 35)
Impact House District: Kodiak/Cordova (HD 35) **Contact:** McHugh Pierre
Estimated Project Dates: 07/01/2013 - 06/30/2018 **Contact Phone:** (907)428-6003

Brief Summary and Statement of Need:

Mission critical maintenance projects are needed at the Kodiak Launch Complex (KLC). These projects address issues of life safety, systems recertification, equipment repairs, and corrosion control.

Funding:	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>FY2017</u>	<u>FY2018</u>	<u>FY2019</u>	<u>Total</u>
Gen Fund	\$900,000	\$926,000	\$848,000	\$614,000	\$587,000		\$3,875,000
Total:	\$900,000	\$926,000	\$848,000	\$614,000	\$587,000	\$0	\$3,875,000

<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	
Totals:	0	0

Prior Funding History / Additional Information:

No prior year funding history.

Project Description/Justification:

Mission critical deferred maintenance projects at the Kodiak Launch Complex (KLC) are needed in the following areas: Overhead Crane Systems, Lift Equipment, Payload Processing Center, Launch Control Center, and Range Safety Telemetry System.

Overhead Crane Systems	\$75,000
Lift Equipment	\$147,500
Payload Processing Center	\$225,000
Launch Control Center	\$192,500
Range Safety Telemetry System	\$260,000
Total projects	\$900,000

Overhead Crane Systems - Facility cranes are mission critical and must meet stringent requirements and certification processes. All KLC cranes need new wire rope and require complete load and non-destructive testing and recertification. The trolley bridge crane also needs structural repairs.

Lift Equipment - AAC's fleet of mission critical lift equipment is in need of major repairs. This equipment is required for unloading and moving rocket motors, satellites, and heavy support machinery. The boom truck requires the repair/replacement of its hydraulic lift cylinder before it can

be recertified. It also needs the repair/replacement of its transmission. The heavy duty forklift used for unloading and moving vans and containers needs the repair/replacement of its transmission and wiring harnesses and the Lowboy trailer needs repair/replacement work.

Payload Processing Facility (PPF) - The PPF is a cleanroom facility used to process mission satellites. Cleanroom standards are greater than hospital operating rooms and the certification process requires extensive cleaning, testing, monitoring, and documentation. Before PPF can receive a new cleanroom certification, AAC must repair the heating, ventilation, and air conditioning (HVAC) systems, building envelope pressurization system, floor ElectroStatic Discharge (ESD) grounding, and corrosion control drainage system.

Launch Control Center (LCC) - The LCC is the main customer support facility for missions. This facility includes mission security, communications, and all facility monitoring systems. Repairs will be made to the access control system, environment heating and ventilation control system, and auxiliary system.

Range Safety Telemetry System (RSTS) - RSTS is critical for every mission and requires special equipment with vendor support to be certified mission ready. The system is inoperable and needs to meet certification. RSTS equipment must also have a minimum of 30 minutes of redundant power sources for a launch to proceed on time. The current mobile power generation is not equipped with an Automatic Transfer Switch and the Uninterruptable Power Supply (UPS) unit batteries are sometimes depleted to 0%, requiring a minimum eight hour recharge to meet the power source requirement for a launch. Upgrading mobile power capabilities will ensure the Range Safety UPS units are always available for a launch.

Priorities and cost estimates may need to be changed to accommodate emergency maintenance projects, actual project costs, and other consideration. This request supports the Department's mission by providing critical deferred maintenance to infrastructure used for the defense and protection of Alaska and the United States.