Maintaining Existing Facilities and Equipment | **FY2008 Request: $8,000,000**
Reference No: AMD 43164

AP/AL: Appropriation
Category: University
Location: Statewide
House District: Statewide (HD 1-40)
Estimated Project Dates: 07/01/2007 - 06/30/2012

Project Type: Renewal and Replacement

Contact: Pat Pitney
Contact Phone: (907)450-8191

Brief Summary and Statement of Need:
This request of $8M represents a portion of the $43.7 million minimum annual R&R investment necessary to maintain UA's existing facilities and equipment. The attached projects are based on highest MAU facility and equipment R&R priorities. Projects from this list will be executed as funding allows.

Funding:	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	Total
Gen Fund	$8,000,000	$46,000,000	$49,000,000	$52,000,000	$55,000,000	$58,000,000	$268,000,000
Total:	$8,000,000	$46,000,000	$49,000,000	$52,000,000	$55,000,000	$58,000,000	$268,000,000

☐ State Match Required ☐ One-Time Project ☐ Phased - new ☐ Phased - underway ☑ On-Going
0% = Minimum State Match % Required ☑ Amendment ☐ Mental Health Bill

Operating & Maintenance Costs:

	Amount	Staff
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:
Prior funding: Maintaining Existing Facilities and Equipment (SLA 2006, Chapter 82, $10.6 million GF, $38.3 million Tobacco Settlement Bonds, $3.3 million Receipt Authority), Life Safety and Code (SLA 2005, Chapter 3, $2 million GF, $.6 million Univ. Rcpts.), UAF - Campuses Major Renewal and Renovation (SLA 2005, Chapter 3, $6.1M GF, $7M Univ. Rcpts.), Systemwide Minor Renewal and Renovation (SLA 2005, Chapter 3, $10.7M Univ. Rcpts.), Rasmuson Reading Room (SLA 2005, Chapter 3, $5M Univ. Rcpts.)

Project Description/Justification:

- UAF Bethel Campus Facility Roof, Heating, and Structural Renewal
  (GF: $4,000.0, Total: $4,000.0)
  Funding will allow for major renovations and code upgrades for the vocational laboratory facility including necessary roof repairs, structural upgrades, heating system improvements, and exterior rehabilitation. The request also provides for the build-out within the existing structure of a classroom and laboratory to accommodate the allied and nursing programs.

- UAA Campus Roof Replacement
  (GF: $5,600.0, Total: $5,600.0)
  UAA will systematically address roofing replacement by re-roofing 5 percent of the buildings each year. This will fund four years of roofing projects on the main campus and two buildings at Kenai Peninsula College.

- UAA Community Campus Cable Plant Renewal
  (GF: $1,650.0, Total: $1,650.0)

Community campus network cabling and fiber systems are inadequate to meet current and future needs. They have evolved over years without structured planning or maintenance. Telephone and data network services, which depend upon them, have been seriously impacted. This project is a major renewal project for the campus cable plants at Kenai Peninsula College, Kachemak Bay Campus, Matanuska Susitna Campus, Prince William Sound Community College, and Kodiak College.

- UAF Critical Electrical Distribution
  (GF: $12,500.0, Total: $12,500.0)
  The existing electrical distribution system at UAF is nearly 50 years old. With the completion of several new facilities, the antiquated equipment must be replaced to assure adequate reliability. To ensure campus power is not shut down, major upgrades must be made to replace switches and cabling and bring the campus distribution system to current code.

- UAA Fire Alarm Panel Upgrade
  (GF: $500.0, Total: $500.0)
  The majority of the buildings on the UAA campus are currently operating with the original fire alarm systems that were installed when the buildings were constructed. Buildings on West Campus are approaching 35 years of age. The existing fire alarm systems do not provide the performance offered by today's technology. New addressable systems are readily available which enhance response for building occupants. Replacement components of the existing systems are no longer manufactured and/or the components no longer carry the UL listing. Notification system requirements under the Americans with Disabilities Act cannot be easily retrofitted into the existing systems. Soon the existing systems will no longer be upgradeable to meet future codes. The analog addressable fire alarm systems have superior features and flexibility for future code requirements. These systems also allow sensitivity adjustments of individual devices from the control panel, reducing the incidences of nuisance alarms, and will reduce maintenance time locating a single malfunctioning sensor. These systems require a new panel which can decrease emergency response time to the sensor signaling the alarm.

- UAA Community Campus Fire Systems Upgrade
  (GF: $300.0, Total: $300.0)
  The existing fire detection and alarm systems at Mat-Su College and Kodiak College are no longer supported by the manufacturer and cannot be upgraded. This project replaces the existing system with an addressable fire alarm system. These systems have superior features and flexibility for code requirements. They provide better protection for buildings and their occupants and increase the level of safety of public buildings.

- UAS Anderson Science Building Renovation
  (GF: $7,650.0, Total: $7,650.0)
  With the move of the UAF School of Fisheries and Ocean Sciences to a new Lena Point facility in 2008, the Anderson Building will now need remodeling to serve the needs of the UAS Science Department. The project will include classroom, laboratory, faculty office, and research spaces, as well as construction of a pedestrian crossing on Glacier Highway.

- UAA Elevator Safety/Code Upgrades
  (GF: $750.0, Total: $750.0)
  UAA Facilities & Campus Services manages the operations and maintenance of an inventory of more than 30 elevators and lifts. With the assistance of a recent condition survey, 17 buildings were identified as needing upgrades to meet current ADA, and code requirements.

- UAF Fairbanks Campus Main Sanitary Waste Line Repairs
  (GF: $2,850.0, Total: $2,850.0)
  Much of the sewer main piping on campus is original woodstave piping dating back nearly 60 years. These mains, though not at full capacity, have far exceeded their useable life. The project will replace several thousand feet of sewer main piping with new modern materials that will last another 60 years.

- UAF Elevator Safety and Modernization Upgrades-Phase 4 of 7
  (GF: $450.0, Total: $450.0)
  UAF Facilities Services manages the operation and maintenance for a fleet of more than 50 elevators and lifts with an average age of over 25 years. With the help of an FY01 audit, 28 elevators were identified as needing

modernization upgrades. This request represents the fourth phase of a multi-year modernization plan and will address ADA, code and safety, and deferred maintenance improvements to three elevators. Last year's capital appropriation provided funding for three elevators.

- UAF Arctic Health Fire Sprinklers Phase 2 of 2
  (GF: $850.0, Total: $850.0)
  In 2003, UAF completed installing sprinklers in the basement and first floor of AHRB. The remaining portions of the building are still under citation for lack of a fire suppression system. With the projected vacancy of the state virology lab, this space needs to be readied for future backfill and renovations. Per code, the sprinklers must be upgraded as part of other renovations.

- Statewide Upgrade Core Backbone Network
  (GF: $650.0, Total: $650.0)
  This request upgrades the core backbone networks that service the UAF campus and the Statewide system offices to 10 Gigabit ethernet (10GE) to better support the growing demand for high bandwidth user applications. Specifically, this request provides funding to:
  1. Procure and install core network equipment and components that are 10GE capable, and
  2. Procure and install additional on-campus fiber optic circuits to connect buildings to core network hub rooms.

- Statewide Upgrade Remote Campuses
  (GF: $1,000.0, Total: $1,000.0)
  This project replaces aging network hardware located at each UA remote/rural campus that connects back to the UA core network (WAN). This project allows for implementation of modern telecommunications technology, improved performance and connectivity, stability and resiliency of the rural campus network connection.

- Statewide Video-conference Endpoint Lifecycle Replacement
  (GF: $375.7, Total: $375.7)
  This project will: (a) provide 5-year lifecycle replacement of all video endpoint equipment, (b) upgrade all endpoint equipment upon replacement to H.264 standard, and (c) anticipate expansion of video endpoints as required by programs for all UAA and UAS campus locations. Both MAUs have seen significant growth in the use of video-conference technology for instructional delivery. This project supports that growth and ensures that dependable and sustainable equipment is available.

- UAA Gas Extraction System at Merrill Field
  (GF: $575.0, Total: $575.0)
  The UAA Aviation Technology Center and adjacent hangar property are built over the abandoned Municipality of Anchorage (MOA) landfill. Due to the gases that permeate from the soil from decaying trash, the MOA requires each parcel to have a landfill gas management plan. This plan is required in order to pave the building parking lot which is currently gravel and requires continual effort and expense to maintain. This request is for funding for the design and construction of a landfill gas management system and pavement of the parking lot at the Aviation Technology Center and adjacent hangar property.

- UAA EM1 and EM2 Piping Replacement
  (GF: $1,500.0, Total: $1,500.0)
  The Energy Modules (EM1 and EM2) provide heating services for a number of campus facilities. This project will replace the underground heat piping being served from EM1 and repair the above ground heat piping/fittings in the Wells Fargo Sports Complex.

- UAF Main Campus Wide Roof Replacement
  GF: $1,500.0, Total: $1,500.0)
  As buildings on campus age, roofing system repairs are required. Funding is required for a multi-year project to replace roofs that have surpassed their useable life. This request will replace approximately 99,000 SF of roof on four buildings.

- UA Code Projects Community Campus
  (GF: $1,000.0, Total: $1,000.0)

Community campus code and renovation projects often require immediate attention. This provides available funds to accommodate immediate R&R projects at outlying campuses.