



UNIVERSITY
of ALASKA

Many Traditions One Alaska

Proposed FY14 Capital Budget Request
and
10-Year Capital Improvement Plan

Reference #2

Board of Regents
November 7, 2012
Anchorage, Alaska

Prepared by Statewide Planning & Budget
450-8191

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University of Alaska
Proposed FY14 Capital Budget Request and
10-Year Capital Improvement Plan
Introduction

There are five categories of capital funding in the FY14 University of Alaska budget request:

Deferred Maintenance (DM): The deferred maintenance backlog increases the risk of mission failure or unprogrammed use of execution year O&M funds to react to real time facility component failure.

Renewal & Repurposing (R&R): The annual investment amount necessary each and every year to repurpose facilities rather than construct new, or renew a facility component before it degrades into the much higher risk and much more expensive to operate category of DM.

Operating & Maintenance (O&M): The annual program cost of routine building operating and maintenance activity. O&M initial and annual costs are figured into “all-in” capital project cost estimates. This type of funding is associated with proposed legislation in FY14 to create a University Building Fund.

New Starts/ Continuation: Creation of an entirely new facility or facility complex that may include extensive utility preparation and/or parking and traffic flow accommodations. This may include project continuation phases requiring subsequent funding appropriation.

Planning & Design (P&D): Most capital projects require a percentage of the total project cost to complete P&D. Unless the project is a true design build, the P&D will precede a major project by a year or more. Projects cannot move forward without P&D being accomplished and approved by appropriate executive levels up through the BoR.

Presented herein are the proposed FY14 Capital Budget Request and the 10-Year Capital Improvement Plan. The goal of the Board of Regents’ University of Alaska FY14-FY23 Capital Improvement Plan (CIP) is to guide the decision making that ensures the necessary balance of facilities, equipment, and infrastructure are in place to support the direction of the university system as prescribed in the UA Academic Master Plan, the Strategic Direction Initiative (SDI), as well as being aligned with all three MAU facilities master plans.

The capital budget presents priority projects for FY14 as well as the short-, mid-, and long-term capital improvement estimations of the University. These FY14 projects require state funding of approximately \$234 million. The request includes the sustainment funding plan for the University of Alaska facilities, including Deferred Maintenance (DM), additional funding for further DM backlog reduction, Annual Renewal and Repurposing (R&R) and continuing funding to complete the UA Engineering buildings in progress. Responding to numerous state legislative and commercial requests, the state research requests being sought specifically support research significantly important to Alaska. Proposed FY14 Capital Budget Requests are summarized below and full project descriptions begin on page 5.

Deferred Maintenance (DM): UA's FY14 Deferred Maintenance requests of \$37.5 million will continue to exclusively address the huge, Systemwide maintenance backlog. This will be the fourth year of the Governor's 5-year plan to reduce the State's DM backlog. The highest priority DM and R&R projects at the main campuses are the UAA Beatrice McDonald Building in Anchorage, UAF Cogen Heating Plant Required Upgrades to Maintain Service in Fairbanks, and UAS Auke Lake Way Campus Entry Improvements and Road Realignment in Juneau. The DM and R&R funding distribution plan is included on page 25 and is based on the adjusted value and age of the individual campus facilities.

Deferred Maintenance (DM): An additional DM Backlog Reduction request of \$75 million is absolutely necessary in order to have any hope of reducing UA's untenable DM growth rate. This level of DM will also significantly minimize the expenditures for emergency response maintenance; this kind of maintenance is universally much more expensive and disruptive than performing preventative maintenance, routine maintenance, and capital reinvestment on a planned basis.

Renewal & Repurposing (R&R): Annual Renewal and Repurposing (R&R) Sustainment Initiative funding of \$50 million is approximately 2.5% of the UA's facilities adjusted value...an industry standard. Programmatically funding regular annual R&R is essential to prevent adding to the R&R/DM backlog.

The University is pursuing legislation for the University Building Fund (UBF) that would model the State's Alaska Public Building Fund. The new legislation would also establish base state R&R appropriation funding for the UBF.

Operating & Maintenance (O&M): The UBF would also automatically include annual O&M funding for new facilities beginning with the first year of funding.

New Starts/ Continuation: Continuation funding is being requested to complete both the Engineering Buildings at UAA and UAF. New Start requests that have already received some planning funds are included in the 10-Year Capital Improvement Plan for early consideration of future capital budget requests. The 10-Year capital Improvement Plan is included on page 4.

Planning & Design (P&D): Planning and Design funding requests are not included in this year's budget request due to budget considerations. However, projects included in the short-term of the 10-Year Capital Improvement Plan were listed based on a completed Mission Area Analysis (MAA) and a Statement of Need (SON) provided by the MAUs and sent to the BoR. Additional planning and new start projects for the mid- and long-term planning horizons will be developed to support academic and strategic goals based only on approved MAA documents by the President and BoR.

Capital Research: Research for Alaska includes funding to support research efforts that address critical state needs in the areas of salmon production and decline, energy alternatives and policy, Arctic oil spill response, and enhancing digital and multispectral maps of Alaska.

University of Alaska
Proposed FY14 Capital Budget Request
(in thousands of \$)

	State	Receipt	New	
	Approp.	Auth.	Legislation	Total
Deferred Maintenance(DM)/Renewal & Repurposing(R&R)	37,500.0			37,500.0
<i>UAA Main Campus</i>	9,105.0			9,105.0
<i>UAA - Community Campuses</i>	1,879.0			1,879.0
<i>UAF Main Campus</i>	22,161.0			22,161.0
<i>UAF - Community Campuses</i>	970.0			970.0
<i>UAS Main and Community Campuses</i>	2,771.0			2,771.0
<i>UA - Statewide</i>	614.0			614.0
 Additional DM Backlog Reduction	 75,000.0			 75,000.0
<i>UAF Cogen Power Plant</i>	22,000.0			22,000.0
<i>UAS Hendrickson Remodel and Renovation</i>	3,600.0			3,600.0
<i>DM Projects Systemwide</i>	49,400.0			49,400.0
 Annual Renewal & Repurposing Sustainment Initiative			50,000.0	50,000.0
 New Starts/Continuation				
UA Engineering Building Completion	108,900.0	10,000.0		118,900.0
UAF Cold Climate Housing Research Center		1,300.0		1,300.0
Sustainable Village Phase 2-4				
 Research for Alaska				
UAF Alaska Chinook Salmon Production and Decline	3,100.0	6,200.0		9,300.0
UAF Partnership to Develop Statewide Energy Solutions	5,500.0	3,000.0		8,500.0
<i>Energy Technology Testing and Development</i>	3,500.0	3,000.0		6,500.0
<i>Energy Analysis</i>	1,000.0			1,000.0
<i>Comprehensive Fossil Fuel Research</i>	1,000.0			1,000.0
UAF Improving Arctic Oil Spill Response through a	1,500.0	2,000.0		3,500.0
Dedicated Oil Spill Science and Technology Center				
UAF Enhance Base Maps for Alaska Resources	1,900.0			1,900.0
 Other Capital Requests				
SW Replace Wide Area Network Components	500.0			500.0
 Total FY14 Proposed Capital Budget	233,900.0	22,500.0	50,000.0	306,400.0

University of Alaska Proposed 10-Year Capital Improvement Plan (in thousands of \$)

	FY14			State Appropriations			
	State Approp.	Receipt Auth.	New Legislation	Total	Short-Term FY15-FY16	Mid-Term FY17-FY18	Long-Term FY19-FY23
Deferred Maintenance (DM) / Renewal & Repurposing (R&R)							
Facilities Deferred Maintenance/Renewal & Repurposing	37,500.0			37,500.0	37,500.0		
Modernize Classrooms					10,000.0	10,000.0	25,000.0
Additional DM Backlog Reduction	75,000.0			75,000.0	120,000.0	90,000.0	
<i>UAF Cogen Power Plant</i>	22,000.0			22,000.0			
<i>UAS Hendrickson Remodel and Renovation</i>	3,600.0			3,600.0			
<i>DM Projects Systemwide</i>	49,400.0			49,400.0			
Annual Renewal & Repurposing Sustainment Initiative¹			50,000.0	50,000.0			
New Starts/Continuation²						160,000.0	400,000.0
Academic Facilities							
UA Engineering Building Completion (UAA and UAF) ³	108,900.0	10,000.0		118,900.0			
UAA Health Sciences Ph. II/Parking Structure ⁴					12,000.0	109,000.0	
Kodiak Community Campus Vocational Technology and Shop Facility					14,550.0	4,200.0	
Research Facilities							
UAF Energy Technology Facility (\$14M in UAR)					11,000.0		
Student Life (Housing), Support, and Other Facilities							
UAF Cold Climate Housing Research Center Sustainable Village Phase 2-4		1,300.0		1,300.0			
UAF P3 Campus Housing Project (\$35M in UAR)					30,000.0		
UAS Student Housing Phase II (\$1.0M in previous UAR)					6,250.0		
Infrastructure							
UAF Cogen Power Plant					175,000.0		
Planning and Design²						16,000.0	40,000.0
Research for Alaska							
UAF Alaska Chinook Salmon Production & Decline	3,100.0	6,200.0		9,300.0			
UAF Partnership to Develop Statewide Energy Solutions	5,500.0	3,000.0		8,500.0	5,000.0		
<i>Energy Technology Testing and Development</i>	3,500.0	3,000.0		6,500.0	1,000.0		
<i>Energy Analysis</i>	1,000.0			1,000.0	2,000.0		
<i>Comprehensive Fossil Fuel Research</i>	1,000.0			1,000.0	2,000.0		
UAF Improving Arctic Oil Spill Response through a Dedicated Oil Spill Science and Technology Center	1,500.0	2,000.0		3,500.0	500.0		
UAF Enhance Base Maps for Alaska Resources	1,900.0			1,900.0	1,050.0		
Other Capital Requests							
SW Replace Wide Area Network (UA Core Network) Components	500.0			500.0	600.0		
Bethel Campus Bandwidth Upgrades					5,000.0		
	233,900.0	22,500.0	50,000.0	306,400.0	427,950.0	389,200.0	465,000.0

¹ Annual Requirement for R&R may also be considered as part of the building fund through the operating budget (estimate for buildings 15 years and newer \$10M)

² Additional planning and new start projects for the out-years will be developed to support academic and strategic goals based on a MAA/SON

³ Includes new construction, known renovations to accommodate programmatic change and associated infrastructure costs

⁴ The first year of this capital request is for planning and design

UA Deferred Maintenance (DM) and Renewal & Repurposing (R&R)

Deferred Maintenance (DM) / Renewal & Repurposing (R&R)

FY14 (GF: \$37,500.0, Total: \$37,500.0)

FY15-FY16 (GF: \$37,500.0, Total: \$37,500.0)

This request is the fourth year of the Governor's \$100 million per year commitment to the reduction of the State's deferred maintenance. This portion has been assigned to UA in the past based on the square footage of the State's facilities, excluding roads.

Additional DM Backlog Reduction

FY14 (GF: \$75,000.0, Total: \$75,000.0)

FY15-FY18 (GF: \$210,000.0, Total: \$210,000.0)

An additional DM Backlog Reduction request of \$75 million is absolutely necessary in order to have any hope of reducing UA's runaway DM growth rate. This level of DM will also significantly minimize the expenditures for emergency response maintenance; this kind of maintenance is universally much more expensive and disruptive than performing preventative maintenance, routine maintenance, and capital reinvestment on a planned basis. This additional DM backlog funding will be able to fund, or partially fund, large deferred maintenance projects like UAF's Cogen Power Plant for \$22M (project description on page 8) and UAS Hendrickson Remodel and Renovation for \$3.6M (project description on page 22).

Annual Renewal & Repurposing Sustainment Initiative

FY14 (GF: \$50,000.0, Total: \$50,000.0)

Annual Renewal and Repurposing (R&R) Sustainment Initiative funding of \$50 million is approximately 2.5% of the UA's facilities adjusted value...an industry standard.

Programmatically funding regular annual R&R is essential to prevent adding to the R&R/DM backlog.

The University is pursuing legislation for the University Building Fund (UBF) that would model the State's Alaska Public Building Fund. The new legislation would also establish base state R&R appropriation funding for the UBF.

UA New Starts/Continuation

UAA Engineering Building Completion

FY14 (GF: \$60,600.0, Total: \$60,600.0)

The School of Engineering spent over \$500K in FY10 for the use of temporary facilities including; two 1,000 gsf portable buildings located north of the Engineering building; rental of a warehouse off campus for use as a design studio; and the temporary reallocation of the University Lake Building (ULB) Annex for Engineering program needs. The State of Alaska moved out of the ULB Annex space in late July 2009 and it was intended for University Police and IT system backup to occupy this space. These dispersed, on and off campus, facilities of about 14K gsf help meet the current program needs, but are extremely inefficient for effective program delivery and still are substantially less than peer institutions.

FY14 Capital Budget Request Project Descriptions

UAA engineering is experiencing dramatic growth in its enrollments with a near doubling of the entire program in the past five years now at nearly 1,000 students. New baccalaureate engineering and related associate and certificate programs were created to meet industry demand and have been one of the driving forces for the enrollment increases. The existing engineering building was built in the early 1980s and is currently undersized. The selected site for the new building is directly south of the Bookstore and would connect with the new Health Science Building across Providence Drive. The site selected for the parking garage is north of the existing Engineering Building and will require the realignment of Mallard Lane into its existing right of way.

UAF Engineering Building Completion

FY14 (GF: \$48,300.0, NGF: \$10,000.0, Total: \$58,300.0)

The University of Alaska Fairbanks, responding to the 100% increase in student enrollment and graduation of baccalaureate trained engineers, called for in the University of Alaska Statewide Engineering Expansion Initiative is proposing a new UAF Engineering Facility at the Fairbanks campus. The proposed new UAF Engineering Facility responds to the initiative to graduate more engineering students, enhances the student experience for engineering students and other students campus wide with a visible and interactive learning environment, integrates UAF's successful engineering research and graduate programs, and addresses critical classroom needs. The proposed facility of 116,900 gross square feet (gsf) is ideally situated adjacent to the existing Duckering Building currently housing the College of Engineering and Mines (CEM) and provides the opportunity to complete Cornerstone Plaza with an attractive and functional focal point at the far side of the UAF main campus. The new facility will have five floors blending with surrounding buildings while standing out as a new and exciting campus destination. In addition, the new facility maintains full connectivity to the existing Duckering building and programs and connects to the nearby Bunnell Building. Duckering will still require renovations to approximately 23,000 gsf to provide a functional connection with the new building and to allow efficient use to better serve the needs of the engineering program.

UAF Cold Climate Housing Research Center Sustainable Village Phase 2-4

FY14 (NGF: \$1,300.0, Total: \$1,300.0)

FY15-FY16 (NGF: \$2,000.0 Total: \$2,000.0)

In 2008, Chancellor Rogers' Transition Team identified the need to create a more sustainable campus at UAF. Since then the Office of Sustainability was created as a partnership between the Chancellor's Office and the UAF student body with this as a shared goal. This housing project will further the goal of sustainability at UAF through a partnership with the Cold Climate Housing Research Center's (CCHRC) Sustainable Northern Communities program. Each phase will construct four houses to accommodate 16 students. The houses are designed to test sustainable, durable, healthy, and cost effective building technologies for people living in the Circumpolar North.

Research for Alaska

**UAF Alaska Chinook Salmon Production and Decline
(supports the Fisheries, Seafood and Maritime Initiative)**

FY14 (GF: \$3,100.0, NGF: \$6,200.0, Total: \$9,300.0)

Chinook salmon support important subsistence, personal use, commercial, and recreational fisheries in Alaska. However, recruitment of Chinook salmon has been highly variable throughout Alaskan drainages over the last century. Recruitment failures, coupled with poor markets for wild salmon, have caused severe economic hardship for Alaskan residents, particularly in the Yukon-Kuskokwim drainages. Continued concern over Chinook salmon returns in the Yukon River, particularly related to meeting escapement goals to Canadian tributaries up-river, indicate that fishery restrictions and closures will be frequent in the future. As a result, biologists, managers, and stakeholders all seek to better understand the factors affecting Chinook salmon returns in Alaskan waters. Our current limited understanding of annual variations in abundance of Chinook salmon comes in part from a discontinuous time series of data that is generated from subsistence harvest estimates, in-river commercial catch and effort data, test fishery catch rates, tributary weir counts, counts of spawning salmon made from aerial surveys, and mark-recapture estimates of abundance. Accordingly, researchers trying to understand the mechanisms that regulate variation of Chinook salmon abundance in Alaska drainages have been hindered by not having a reliable time series of data on the number of fish returning each year to spawn or the impacts of variations in biotic and abiotic factors on abundance, growth, and survival. Therefore, addressing this information gap is a critical step in developing a better understanding of the causes for the recent declines in Alaska Chinook salmon stocks.

UAF Partnership to Develop Statewide Energy Solutions

FY14 (GF: \$5,500.0, NGF: \$3,000.0, Total: \$8,500.0)

FY15-FY16 (GF: \$5,000.0, Total: \$5,000.0)

The University of Alaska Fairbanks has significant capabilities to assist the State of Alaska, Alaska communities, and Alaska industries in making informed decisions about energy technology, analysis, and development. The University of Alaska Fairbanks can serve as a neutral information broker to impartially assess a wide range of potential energy options from numerous perspectives. This will inform Alaska's decision makers, industries, businesses, and residents who seek to develop and use Alaska's energy resources. As leaders in multidisciplinary energy research, the University of Alaska Fairbanks can provide key stakeholders with a trusted, multidisciplinary source of analysis, research, and technology development. Additionally, the university can leverage resources through an extensive national and international research network including national laboratories other universities, and private non-profit organizations.

UAF Improving Arctic Oil Spill Response through a Dedicated Oil Spill Science and Technology Center

FY14 (GF: \$1,500.0, NGF: \$2,000.0 Total: \$3,500.0)

FY15-FY16 (GF: \$500.0, Total: \$500.0)

UAF is building a Center for Oil Spill Prevention and Preparedness in the Arctic by focusing the subject matter experts across the University on research applicable to Arctic oil spills. UAF is partnering with State and Federal agencies, industry, and other academic institutions to support wise decision-making concerning Arctic oil spill response and prevention by working to fill gaps in existing knowledge.

UAF Enhance Base Maps for Alaska Resources

FY14 (GF: \$1,900.0, Total: \$1,900.0)

FY15-FY16 (GF: \$1,050.0, Total: \$1,050.0)

Alaska's Statewide Digital Mapping Initiative (SDMI) is an interagency program producing updated high-resolution imagery and elevation model data for the entire state. The base imagery and elevation mapping program is well underway, with a new, high resolution satellite image of the entire state to be complete in 2014. Elevation mapping statewide is projected to be complete within the decade. This proposed effort will be directed at providing much needed information critical for assessment and potential development of Alaska's resources. Increased capability to monitor and document land surface conditions and characteristics will improve the ability to detect and respond to the changing environment, assess resources, and plan new development. Such monitoring is particularly needed in regions of rapid change, such as in areas changed by wildfires, along coast lines, near glaciers and in zones of rapidly degrading permafrost.

Other Capital Requests

SW Replace Wide Area Network (UA Core Network) Components

FY14 (GF: \$500.0, Total: \$500.0)

FY15-FY16 (GF: \$600.0, Total: \$600.0)

The existing routing hardware used to interconnect UAA, UAF, and UAS is rapidly approaching the end of its life and will not support the growing bandwidth demands of the University. This will replace this aging technology with state of the industry routing hardware and software.

10-Year Capital Improvement Plan Projects (FY15-FY23)

UAF Cogen Power Plant

FY14 (GF: \$22,000.0, Total: \$22,000.0)

FY15-FY16 (GF: \$175,000.0, Total: \$175,000.0)

The 2006 Utilities Development Plan identified the preferred option for providing current and future energy (electric and building heat) as replacing and expanding the current coal fired combined heat and power (CHP) plant. New efficient coal boilers represent the lowest life cycle cost as well as the lowest carbon footprint of the options explored. The existing coal boilers and steam turbine have reached the end of their useful life and need to be replaced prior to experiencing a catastrophic failure. The campus energy needs have also grown to the point where purchases of power from GVEA and use of oil have significantly increased UAF's energy costs. A new efficient plant will decrease annual operating costs.

UAA Health Sciences Phase II Building and Parking Structure

FY15-FY16 (GF: \$12,000.0, Total: \$12,000.0) - *Planning*

FY17-FY18 (GF: \$109,000.0, Total: \$109,000.0)

UAA is uniquely situated, surrounded by two of the largest hospital complexes in Alaska. As the U-Med District grows, partnerships with neighboring institutions continue to emerge. For the past decade, the University has been in discussion with neighboring institutions about partnering for joint-use health care training facilities. In addition, the demand for health care professionals throughout the state has resulted in a call for increased course and program offerings that UAA is unable to meet because of a lack of facilities.

In FY09, the Alaska State Legislature appropriated \$46M for the construction of the Health Sciences Building. This funding provided for construction of a 65,000 gsf. building to be located on the land parcel UAA received in the 2005 land trade with Providence Hospital. During programming for this building and for the Health Sciences programs, it was determined that this facility would become Phase I and would only be able to house the Nursing and WWAMI programs with some functions remaining in existing space on the West Campus. It was determined that approximately 99,500 additional gsf of space would be needed in Phase II to accommodate the additional programmatic needs of the Allied Health programs and other health science programs, as well as classroom and administrative space.

The UAA Health Sciences Subdistrict Plan consists of nine acres of prime road-front real estate on Providence Drive and is contiguous with the main campus. The plan was approved by the BOR in February 2009 as an amendment to the 2004 UAA Master Plan. It calls for several high profile buildings to be located on this site that will require a high volume of parking. In accordance with the UAA Master Plan, all future parking should be consolidated in parking structures to reduce the impact on developable land, provide better traffic control on the campus and reduce the negative visual impact of surface parking.

This project was identified in the 2003-2013 timeframe of the 2004 UAA Master Plan as amended in February 2009. It is in keeping with the UA Strategic Plan goals of student success, educational quality, faculty and staff strength, and responsiveness to state needs, technology and facility development.

Kodiak Community Campus Vocational Technology and Shop Facility

FY15-FY16 (GF: \$14,550.0, Total: \$14,550.0)

FY17-FY18 (GF: \$4,200.0, Total: \$4,200.0)

UAA Kodiak College (KoC) proposes to expand its current Technology Center to accommodate growing high demand and workforce development programs in construction, welding, industrial safety and renewable energy. The Alaska Department of Labor predicts that from 2008-2018 jobs in the construction industries will increase by 11.3%.

The September 2010 Alaska Economic Trends publication reports, "projected growth in construction will be broad-based with moderate employment gains in the construction of buildings, heavy and civil engineering projects, and specialty trade construction." According to the Alaska Occupational Forecast 2008-2018, the following employment increases are expected: Occupational Safety and Health Technicians 14.9%, Construction laborers 12.9%, Carpenters 11.1%, Structural Iron and Steel Workers 12.0% and Sheet Metal Workers 9.1%. As a result, a well trained workforce is critical to successfully accommodate increased employment needs due to industry growth and employee retirement.

The Vocational Technology Center (Vo-Tech) Building on the Kodiak Campus was constructed in 1973, and is no longer adequate for the types of classes being offered, and in demand, within the community. In order to meet the growing program and space needs for the construction, welding, fitness, diesel and small engine, and mechanical trades and address the issues associated with the current building, an expansion of the existing facility should be constructed to house these programs. The campus is also in need of warehouse and maintenance shop space to maintain the campus facilities which is appropriately combined with this facility.

The total project consists of a combined structure of approximately 29,400 gross square feet of new building additions, including approximately 7,150 square feet of warehouse/storage space and renovation of approximately 5,200 gsf of existing space. Phase 1 consists of renovating approximately 5,200 gsf of existing space and constructing approximately 11,300 gsf of new building addition. Phase 2 and Phase 3 add approximately 6,900 gsf and 6,000 gsf in building additions, respectively. The project includes site work, building structure, architectural, electrical, mechanical, and all associated work/utilities for a complete and usable facility.

UAF Energy Technology Facility

FY15-FY16 (GF: \$11,000.0, NGF: \$14,000.0 Total: \$25,000.0)

In April 2008, UAF launched the Alaska Center for Energy and Power (ACEP), a new research unit to investigate energy options for the state. ACEP builds upon years of energy research organized under the Arctic Energy Technology Development Laboratory. ACEP is part of the Institute of Northern Engineering, the research branch of the College of Engineering and Mines. Although its administrative home is UAF, ACEP integrates energy research across University of Alaska campuses and the state. ACEP's mission is to meet state, industry and federal demand for applied energy research to lower energy costs throughout Alaska, and to develop economic opportunities for the state, its residents and industries.

For ACEP to help meet the demand for applied energy research in Alaska, it is crucial that the program have designated space to conduct research, testing and demonstration. ACEP must also

FY14 Capital Budget Request Project Descriptions

have space where public and private entities can interact with the university. With its present distribution across campus, there is no central location that brings the university and the community together around energy solutions. In addition, the lack of appropriate space also makes it challenging to hire and retain the type of world-class researchers needed to meet ACEP's long-term program goals.

UAF P3 Campus Housing Project

FY15-FY16 (GF: \$30,000.0, NGF: \$35,000.0 Total: \$65,000.0)

The UAF Campus Housing Project includes an estimated 250 new beds in 3 new suite style dorm facilities. These facilities will be in the core of campus along Copper Lane. This is the next step in transforming UAF's student environment and continues UAF progress using a public private partnership developer approach. The housing complements the UAF funding dining addition to Wood Center that replaces the outmoded and inefficient 49yr-old Lola Tilly cafeteria, 4 new Sustainable Village housing units accommodating up to 18 student in a living, learning, research environment, and new student recreation opportunities including an ice climbing wall, outdoor ice rink, and soon to be developed snowboarding area. The cost of the housing exceeds the revenue from student rent. To have the housing facilities adequate to attract Alaska high school graduates and to keep rents affordable the project requires a portion of state funding. It is important to keep in mind that the significant student environment changes noted above have been all accomplished by UAF without state support.

UAS Student Housing Phase II

FY15-FY16 (GF: \$6,250.0, Total: \$6,250.0)

In UAS's Strategic and Assessment Plan, July 1, 2010 to June 30, 2017, the University's leadership identified the expansion of freshman student housing as an overarching strategy; an action that will move the institution toward its vision in light of the institution's mission, values, and core themes. This strategy will impact most the institution's ability to meet its metrics related to the core theme of student success. Student success requires an investment in academic support and student services that facilitate student access and completion of educational goals. Freshmen students in particular, as they make the transition from living at home to being in college are more likely to experience difficulties. They require additional support and a first-year experience that provides instruction, leadership opportunities, and social activities geared toward ensuring their success and retention.

The Juneau campus goal is to provide a residential opportunity for 50% of first-time freshman. This currently exceeds the capacity of Banfield Hall (84 beds) and together with our projections of near-term demand indicates the need for approximately 120 beds. UAS has doubled the number of first time freshman between 2007 and 2010 (223 from 104).

The lack of affordable and on-campus housing erects barriers to access for many rural Alaskans to higher education. During the 2010 Fall Semester, new freshman representing thirty-six Alaskan communities resided in Banfield Hall. Many of these students were from rural communities located in the Interior and Southeast Alaska. These students choose UAS because of its quality academic programs, size, and supportive atmosphere. Forcing first-year students off campus deprives them of a critical network of academic and community support they need to succeed.

FY14 Capital Budget Request Project Descriptions

Bethel Campus Bandwidth Upgrades

FY15-FY16 (GF: \$5,000.0, Total: \$5,000.0)

As e-Learning and high definition videoconferencing increases, added bandwidth will facilitate increased e-Learning capacity by allowing for multiple videoconferences and two-way simulation activities for rural health programs, aviation and eLaboratories. Increased bandwidth will also provide advanced telecommunications capacity such as Voice over IP and unified communications. Students and faculty will also be able to participate in research involving larger data sets and sensing images.

This request is an estimate of the funding necessary to upgrade the Bethel campus from 5mbps on a satellite network to a 10mbps on a terrestrial network, providing a much faster network experience. Satellite technologies introduce about a 600ms latency, or response time, while the terrestrial network reduces that to about 40ms. This allows for much greater response rates from remote programs that are sensitive to delays in signal such as simulations, high definition videoconferencing, and remote control applications.

University of Alaska
FY14 Priority Deferred Maintenance (DM) and Renewal and Repurposing (R&R) Projects
by MAU State Appropriations (in thousands of \$)

Project Name	DM	R&R	Total
UAA Main Campus			
Beatrice McDonald Building Renewal	3,531.9	3,531.9	7,063.7
Campus Building Envelope & Roof Replacement	1,000.0		1,000.0
Campus Mechanical/Electrical/HVAC Upgrades	500.0		500.0
Campus Roads, Curbs and Sidewalks	200.0		200.0
EM1 and EM2 Mechanical	1,345.0		1,345.0
MAC Housing Renewal	1,500.0	1,500.0	3,000.0
Classroom, Office & Lecture Hall Lighting Upgrades	100.0		100.0
Building Automation System Renewal	100.0		100.0
Campus Wayfinding		100.0	100.0
Emergency Generator Upgrades/Replacements	100.0		100.0
Fire Alarm Panel Upgrades	200.0		200.0
Electrical Feeder/Panel Upgrade	200.0		200.0
Elevator Safety/Code Upgrades	400.0		400.0
UAA Main Campus Total	9,176.9	5,131.9	14,308.7
UAA Community Campus			
KPC Kenai River Campus Goodrich, Brockel, and Ward Buildings Renovations to Accommodate Programmatic Change	500.0	977.5	1,477.5
Kodiak College Campus Renewal	1,598.4	1,600.0	3,198.4
PWSCC Campus Renewal	2,018.0	2,018.0	4,036.0
Mat-Su Renovation of Machetanz Hall & Snodgrass Hall		250.0	250.0
UAA Community Campus	4,116.4	4,845.5	8,961.9
UAA Deferred Maintenance and Renewal & Repurposing Total			
	13,293.3	9,977.4	23,270.6
UAF Main Campus			
Cogen Heating Plant Required Upgrades to Maintain Service and Code Corrections Phase 3	2,000.0		2,000.0
Critical Electrical Distribution Phase 3	6,550.0		6,550.0
Fairbanks Campus Main Waste Line Repairs		2,000.0	2,000.0
Fairbanks Main Campus Wide Roof Replacement		1,000.0	1,000.0
West Ridge Facilities Deferred Maintenance and Revitalization	4,000.0		4,000.0
West Ridge Storage (Museum)	5,000.0		5,000.0
Fine Arts Vapor Barrier	2,800.0		2,800.0
ADA Compliance Campus Wide: Elevators, Ramps, Restrooms		1,900.0	1,900.0
Elevator Scheduled Upgrading and Replacement		500.0	500.0
Lower Campus Renovations to Accommodate Programmatic Change per 2010 Masterplan	1,250.0		1,250.0
Patty Center Revitalization	1,000.0		1,000.0
Campus Infrastructure: Roads, Sidewalks, Curbs, Gutters, and Ramps		750.0	750.0
Campus Wide Fire Alarm Survey		500.0	500.0
Salisbury Theater Renovation	2,100.0		2,100.0
Tilly Commons DM and Repurpose	2,000.0		2,000.0
Student Services Renewal – Wood Center Student Union		3,250.0	3,250.0
UAF Main Campus Total	26,700.0	9,900.0	36,600.0

University of Alaska
FY14 Priority Deferred Maintenance (DM) and Renewal and Repurposing (R&R) Projects
by MAU State Appropriations (in thousands of \$)

Project Name	DM	R&R	Total
UAF Community Campus			
Kuskokwim Campus Facility Critical Deferred and Voc-Tech Renewal -- Phase 2	900.0		900.0
UAF Community Campus Total	900.0		900.0
UAF Deferred Maintenance and Renewal & Repurposing Total			
	27,600.0	9,900.0	37,500.0
UAS Main Campus			
Auke Lake Way Campus Entry Improvements & Road Realignment	144.5	755.5	900.0
Hendrickson Remodel and Renovation	2,020.5	1,579.5	3,600.0
Bill Ray Center Remodel	1,750.0	1,750.0	3,500.0
UAS Deferred Maintenance and Renewal & Repurposing Total	3,915.0	4,085.0	8,000.0
Statewide			
Butrovich Building Repairs (\$1.2M in University Receipts)	1,800.0		1,800.0
Statewide Deferred Maintenance and Renewal & Repurposing Total	1,800.0		1,800.0
UA Priority DM and R&R Total			
	46,608.2	23,962.4	70,570.6
Additional DM and R&R			
UAA Main Campus	170,574.4	129,032.6	299,607.1
UAA Community Campus	19,150.0	10,923.7	30,073.7
UAF Main Campus	485,439.1	259,247.9	744,687.0
UAF Community Campus	18,479.0	15,913.8	34,392.8
UAS Main Campus	5,624.9	217.7	5,842.6
Statewide	15,571.0		15,571.0
UA System Additional DM and R&R Total	714,838.5	415,335.7	1,130,174.1
UA DM and R&R Grand Total			
	761,446.7	439,298.1	1,200,744.8

UAA Main Campus Deferred Maintenance and Renewal & Repurposing

Beatrice McDonald Building Renewal

FY14 (GF: \$7,063.7, Total: \$7,063.7)

Beatrice McDonald Hall (BMH) was built in 1970. The building is currently in significant need of mechanical, electrical and architectural improvements and replacements. Most of the building technologies constructed in the building are over forty years old and are at the end of their useful lifespan. Current laboratory furniture and fixtures are in disrepair and not up to date with educational standards.

When the Integrated Science Building (ISB) opened in 2009, many of the functions housed in the Science Building moved to ISB. Upon these vacancies, the Science Building began a 3 year renovation plan spanning from May 2010—April 2013. This in turn has opened up space for functions currently in BMH to move into the Science Building. New tenants recently moving to BMH as a result of departments moving to the Science Building are Environment & Natural Resources Institute (ENRI) and Alaska Natural Heritage Program (ANHP). At this time it is difficult for these departments to comfortably integrate into the building because of space constraints.

Campus Building Envelope & Roof Replacement

FY14 (GF: \$1,000.0, Total: \$1,000.0)

FY15-FY19 (GF: \$5,000.0, Total: \$5,000.0)

New roof systems improve building efficiencies and protect the building. The Anchorage campus currently has approximately 1,000,000 gsf of roofing that requires replacement on a 20-year cycle. The requested funds will address the most severe roofing needs as outlined in a Roofing Replacement Study that was done in the summer of 2007. The project will also address other building envelope issues.

Campus Mechanical/Electrical/HVAC Upgrades

FY14 (GF: \$500.0, Total: \$500.0)

FY15-FY19 (GF: \$2,500.0, Total: \$2,500.0)

Many of the original buildings on the UAA Campus were constructed in the early- to mid-1970s and the building systems are beginning to fail and are no longer adequate for the current demands and require replacement or upgrading. The Mechanical, Electrical and HVAC systems in particular fall into this category, however replacement parts for many of these systems are no longer available. The systems are very expensive to operate due to their low efficiencies. Replacement of these systems would allow for increased energy efficiencies and better environmental control throughout the building. This project will replace failing piping, inadequate electrical systems, inefficient lighting, boilers, fans, deficient VAV boxes and upgrade the building automation system controls.

Campus Roads, Curbs and Sidewalks

FY14 (GF: \$200.0, Total: \$200.0)

FY15-FY19 (GF: \$1,000.0, Total: \$1,000.0)

The UAA campus is over 30 years old and many of the roads, trails, sidewalks, parking areas, curbs and gutters are part of the original construction or have been impacted by construction,

repair and renovation projects over the years. This results in uneven surfaces, lack of adequate sidewalks and other deficiencies that pose a safety hazard or are increasingly susceptible to additional damage. The aviation technology parking lot is dirt and needs to be replaced with asphalt. Increased enrollment and subsequent staffing increases dictate a need to upgrade and repair these surfaces in order to maintain a safe and effective environment for students, staff and the public.

EM1 and EM2 Mechanical

FY14 (GF: \$1,345.0, Total: \$1,345.0)

FY15-FY19 (GF: \$1,345.0, Total: \$1,345.0)

The Energy Modules (EM1, EM2) were constructed in 1977 and provide heating and cooling services for a number of campus facilities. The Energy Module boilers, pumps and piping systems are over 30 years old and have been failing due to age, corrosion and fatigue. Many of these failures have occurred during the winter months when additional stresses are placed on the systems due to increased heating demands and environmental impacts. These failures further impact other systems, thus driving up the associated costs. Emergency repairs are very expensive and have a severe impact on students, faculty and staff working in the buildings served by these modules.

MAC Housing Renewal

FY14 (GF: \$3,000.0, Total: \$3,000.0)

FY15-FY19 (GF: \$4,700.0, Total: \$4,700.0)

MAC Housing was built in 1985 and is now over 22 years old. While the housing auxiliary takes care of maintenance, repair and minor renewal with auxiliary funds, major renewal projects are beyond the reach of the auxiliary operating budget and fund balance. The scope of this project includes major renewal items such as boilers, bathroom showers, electrical and IT upgrades, bathroom exhaust systems, kitchen and bathroom casework, finishes, and building siding, roof replacement and complete the stairwell replacement. The work will be phased to be accomplished over a multi-year period.

Classroom, Office & Lecture Hall Lighting Upgrades

FY14 (GF: \$100.0, Total: \$100.0)

FY15-FY19 (GF: \$500.0, Total: \$500.0)

Many classrooms and lecture halls currently utilize surface mount or strip mount direct distribution lighting systems. Some of these use magnetic ballasts with a T12 lamps, which are being phased out. Retrofitting to a direct/indirect system using electronically ballasted systems with T8 lamps requires on average about one half to one third the number of fixtures for the same level of light. In addition, a teacher control center would provide the instructor with the ability to control the light levels in reference to the teaching environment. A control of audio/visual light levels allows the students to see video presentations while still having enough light to take notes. Currently, the lights need to be turned off for viewing presentations, making it difficult for students to take notes during presentations. Occupancy sensors turn lights off after 10 minutes of inactivity to prevent energy waste of lights being left on. The teacher control center has a one hour override setting for use during test periods to prevent false offs. Transitioning into this lighting system will result in a significant energy savings with an average payback of five years.

Several pilot classrooms have already been retrofitted with this system with excellent results and positive feedback from faculty and students.

Building Automation System Renewal

FY14 (GF: \$100.0, Total: \$100.0)

FY15-FY19 (GF: \$500.0, Total: \$500.0)

Over the past 20 years there have been extensive technological advances in building environmental systems. These advances allow for better control of air quality and heating/cooling control as compared to the original pneumatic controls that were installed in these buildings. Going from maintenance-intensive pneumatic controls to modern direct digital controls saves the university both energy usage and maintenance costs. This request will provide upgrades for approximately 10 buildings.

Campus Wayfinding

FY14 (GF: \$100.0, Total: \$100.0)

FY15-FY19 (GF: \$500.0, Total: \$500.0)

Initial implementation included wayfinding elements for the Wells Fargo Sports Complex, University Center and selected exterior campus signs. Additional funding is being requested to continue implementation of interior and exterior building signage, pedestrian wayfinding kiosks and other plan elements.

Emergency Generator Upgrades/Replacements

FY14 (GF: \$100.0, Total: \$100.0)

FY15-FY19 (GF: \$500.0, Total: \$500.0)

UAA Anchorage campus has multiple generators and above ground storage tanks in locations around campus. The generators provide limited backup service to the critical building systems. The generators are old and have spent 10-15 years exposed to the weather. The generators are a variety of sizes and types. Few have automatic transfer switching (ATS), which means someone needs to come on campus to turn them on. This project would standardize equipment type, install ATSS, consolidate the number of generators, and connect buildings not currently connected. The project would also validate what building systems should be powered in an emergency. This would be a multi-year project.

Fire Alarm Panel Upgrades

FY14 (GF: \$200.0, Total: \$200.0)

FY15-FY19 (GF: \$1,000.0, Total: \$1,000.0)

This is a campus-wide project to replace obsolete and non-compatible fire panels and associated systems. The new systems will meet current code requirements and be adaptable to meet future code requirements.

Electrical Feeder/Panel Upgrade

FY14 (GF: \$200.0, Total: \$200.0)

FY15-FY19 (GF: \$1,000.0, Total: \$1,000.0)

The majority of the buildings on the UAA campus are still operating under original electrical service and associated panels and components that were installed when the buildings were constructed. Buildings on the West Campus are approaching 35 years old and the buildings on

East Campus are not far behind. The existing electrical service and associated panels and components do not provide the level of safety offered by today's technology. Replacement components of the existing panels are hard to find or are no longer manufactured. The existing electrical service for many buildings has reached its maximum capacity and cannot be expanded to meet the demands created by increasing enrollment and expanding curriculum.

Elevator Safety/Code Upgrades

FY14 (GF: \$400.0, Total: \$400.0)

FY15-FY19 (GF: \$2,000.0, Total: \$2,000.0)

UAA Facilities & Campus Services manages the operations and maintenance of an inventory of more than 30 elevators and lifts. Based on a recent condition survey, the elevators in 17 buildings were identified as needing upgrades to meet ADA, code and safety requirements. These repairs, upgrades and reconditions are critical to improved reliability of the lifts and will improve the mechanical and electrical components of the elevator for safety and energy efficiency.

All elevators and lifts consist of common components. Due to the age of the elevators, condition, or changes in code requirements, many of the elevators require upgrades in order to come into compliance. UAA's modernization program addresses the ADA, code, life safety and maintenance needs of the elevators identified in a recent condition analysis. Routine maintenance and minor renewal items for the UAA elevator inventory are being addressed with campus operating/M&R funds.

UAA Community Campus Deferred Maintenance and Renewal & Repurposing

KPC Kenai River Campus Goodrich, Brockel, and Ward Buildings Renovations to Accommodate Programmatic Change

FY14 (GF: \$1,477.5, Total: \$1,477.5)

The construction of the KPC Career and Technical Education Center will result in the relocation of programs and equipment to new space and will require the renovation and back filling of the space vacated in the Goodrich and Ward building.

The affected areas of the Goodrich (KP102 built 1974) and Ward (KP105 built 1982) buildings have not been renewed since original construction.

Kodiak College Campus Renewal

FY14 (GF: \$3,198.4, Total: \$3,198.4)

The buildings on the Kodiak Campus were constructed in the early to mid-1970's. The exteriors are painted wood siding that is being impacted by the exposure to the extreme climate conditions of Kodiak. The original windows suffer from worn seals that cause air infiltration. The mechanical and electrical systems are in need of renewal to meet the increased student demand and increased use of new technology. Improvements to layout and design will increase space efficiency and allow for replacement of worn and outdated fixed equipment. In FY09 and FY10, some funding was provided for the replacement of siding on two of the buildings and for some minor upgrades. In FY11, FY12, and FY13 additional funding was allocated and used to continue the most urgent repairs to the buildings. In FY14, additional funding is requested to cover the FY12 Energy Audit recommendations.

PWSCC Campus Renewal

FY14 (GF: \$4,036.0, Total: \$4,036.0)

The Growden-Harrison building was originally built shortly after the 1964 earthquake as an Elementary school and was added onto in a piecemeal fashion in the following years. This has resulted in aging mechanical, electrical, HVAC systems that are currently undersized for the facility and have included the use of asbestos containing materials. The piecemeal additions have resulted in draining and weathering problems that adversely impact the building envelope.

Mat-Su Renovation of Machetanz Hall & Snodgrass Hall

FY14 (GF: \$250.0, Total: \$250.0)

With the construction in FY13 of the new paramedic and nursing facility as part of the GO bond initiative, the prior space these programs occupied will need to be renovated to their new usage for the College's needs. The former nursing area will be renovation into a general purpose classroom and one faculty office. The present paramedic area will become a general purpose classroom and 3 faculty offices by our preliminary planning. The college presently is short on faculty office space and classrooms for key times. This project will enable the conversion of these spaces on an expedited basis.

UAF Main Campus Deferred Maintenance Renewal & Repurposing

Cogen Heating Plant Required Upgrades to Maintain Service and Code Corrections (Ph3)

FY14 (GF: \$2,000.0, Total: \$2,000.0)

FY15-FY19 (GF: \$37,770.0, Total: \$37,770.0)

The UAF combined heat and power plant is a co-generation facility that provides electrical power, domestic and firefighting water, and steam for heating buildings. The plant is over 40 years old and many components have exceeded their useful life. This project will address revitalization of the highest priority deficiencies of utilities on the UAF Main Campus. The heating plant renewal items will include the steam and electrical system and water system. The items were identified in the 2006 Utility Development Plan as needing immediate action. Avoiding a major utility failure is the primary objective of this project.

Critical Electrical Distribution Phase 3

FY14 (GF: \$6,550.0, Total: \$6,550.0)

FY15-FY19 (GF: \$3,125.0, Total: \$3,125.0)

The existing electrical distribution system at UAF is nearly 50 years old. With the completion of several new facilities, the antiquated equipment could be stretched beyond its capabilities and begin to fail. To ensure campus power is not shutdown, major upgrades must be made to replace the ancient switchboard and cabling to bring the campus distribution back into code compliance. This is a multi-phase project and \$29.6M has already been appropriated in past years (2005-2013).

Fairbanks Campus Main Waste Line Repairs

FY14 (GF: \$2,000.0, Total: \$2,000.0)

FY15-FY19 (GF: \$10,000.0, Total: \$10,000.0)

Much of the sanitary and storm sewer main piping on campus is original woodstove or clay piping dating back nearly 60 years. These mains, though not at full capacity, have far exceeded

their useable life and are failing. Campus growth and an ever-changing regulatory environment require the modification and upgrade of the waste water handling infrastructure. The project will replace several thousand feet of waste line main piping with new modern materials with a life that exceeds 60 years.

Fairbanks Main Campus Wide Roof Replacement

FY14 (GF: \$1,000.0, Total: \$1,000.0)

FY15-FY19 (GF: \$5,000.0, Total: \$5,000.0)

UAF has many large campus structures that still have original roof systems. As buildings on campus age and do not receive adequate R&R funding, roofing system repairs only offer a band-aid solution to a long-term problem. Funding is required for a multi-year project to replace roofs that have surpassed their useable life and are at risk of complete failure.

West Ridge Facilities Deferred Maintenance and Revitalization

FY14 (GF: \$4,000.0, Total: \$4,000.0)

FY15-FY19 (GF: \$40,350.0, Total: \$40,350.0)

The majority of the facilities located on UAF's West Ridge were built in the late 1960s and early 1970s. Irving 1/2, Elvey, O'Neill, and Arctic Health building serve multiple research and academic units on the Fairbanks Campus. The facilities house major academic programs for fisheries, biology, wildlife, physics, chemistry, agriculture and natural resource management. Elvey, home to the UAF Geophysical Institute, is a major center for many state emergency preparedness programs including the Alaska Earthquake information Center and the Alaska Volcano Observatory. The Arctic Health Building is home to several research programs that directly affect the health and welfare of thousands of Alaskans including the Center for Alaska Native Health Research and the School of Natural Resources and Agricultural Sciences. The Irving 1 facility is the home of the Institute of Arctic Biology and the Department of Biology and Wildlife. Hundreds of undergraduate, graduate, and master degree students learn, research, and teach in the building every day the research intensive Irving 2 facility serves the Institute of Marine Sciences and School of Fisheries.

These facilities, which represent nearly 500,000 gross square feet of space, are the key component to UAF's competitive edge in research relating to the people and places of the Arctic regions. Research performed in the building represents over 50% of the total research revenue for the campus. Academic programs represented on West Ridge also affect over 1500 undergraduates and graduates seeking a degree in a program offered on West Ridge.

The first phase of the project will provide a road map on how to effectively and efficiently address deferred maintenance and functional obsolescence in these facilities. A program of renovations will be developed to ensure the University is addressing the needs of the buildings in a timely manner and in such a way as to enhance the space for the existing programs on West Ridge.

West Ridge Storage (Museum)

FY14 (GF: \$5,000.0, Total: \$5,000.0)

This project will provide archival storage to support the University of Alaska Museum of North and West Ridge research.

Fine Arts Vapor Barrier

FY14 (GF: \$2,800.0, Total: \$2,800.0)

The Fine Arts Complex has experienced moisture damage from seasonal condensation since its construction in 1968. Recently with the addition of humidification to the music wing in 2002 that damage has increased in severity and each winter an inordinate amount of ice buildup now occurs in the exterior wall system. The lack of a continuous vapor barrier has been shown to be the primary cause of this damage.

ADA Compliance Campus Wide: Elevators, Ramps, and Restrooms

FY14 (GF: \$1,900.0, Total: \$1,900.0)

FY15-FY19 (GF: \$7,419.0, Total: \$7,419.0)

The Campus Wide ADA Guidelines Compliance project is an ongoing effort to bring UAF and associated community campuses into compliance with ADA guidelines. This project includes accessibility improvements such as renovations to restrooms, improvements to accessibility routes, replacing drinking fountains, and modifying stairwell handrails.

Elevator Scheduled Upgrading and Replacement

FY14 (GF: \$500.0, Total: \$500.0)

FY15-FY19 (GF: \$2,500.0, Total: \$2,500.0)

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 a multi-year modernization plan and will address ADA, code, and deferred maintenance improvements in the campus elevator systems.

Lower Campus Renovations to Accommodate Programmatic Change per 2010 Masterplan

FY14 (GF: \$1,250.0, Total: \$1,250.0)

FY15-FY19 (GF: \$12,450.0, Total: \$12,450.0)

Many classrooms on the Fairbanks campus do not meet the needs of today's students. This project will update and renovate classrooms to make them more conducive learning environments including soundproofing, renovating vacant and underutilized spaces, and renovating spaces vacated by moves to new West Ridge facilities.

Patty Center Revitalization

FY14 (GF: \$1,000.0, Total: \$1,000.0)

FY15-FY19 (GF: \$19,856.0, Total: \$19,856.0)

Constructed in 1963 to replace an existing 40 year old gym, the Patty Center now houses sports and recreational space for five NCAA Division II, and two NCAA Division I sports. This includes both men's and women's teams that are a vital part of the UAF Campus Life Master Plan. The construction project will correct an abundant list of code citations and extend the life of the 47-year-old facility. The facility must be upgraded to meet basic competition standards.

Campus Infrastructure: Roads, Sidewalks, Curbs, Gutters, and Ramps

FY14 (GF: \$750.0, Total: \$750.0)

FY15-FY19 (GF: \$3,750.0, Total: \$3,750.0)

The UAF Fairbanks campus is connected by a series of small roads that were constructed nearly 40 years ago when the student population and vehicle traffic was only a fraction of what it is today. Whether it is building access, road pavement, or student drop off locations, there are inadequate and aged pedestrian and vehicular facilities all over the campus.

UAF Fairbanks Campus roads and building access are in major need of renewal and renovation. Unlike the state, UAF does not receive federal maintenance funding per mile of road. UAF also does not receive funding for projects that address air quality issues such as bus pullouts and bike paths.

In addition to multiple sidewalks, curbs, gutters and ramps improvements, this project will complete the northern link of Tanana Loop and the roundabout on Tanana Drive. The project will also create safe and attractive pedestrian walkways close to the roadway for non-motorized users. Existing roads will be resurfaced and sidewalks will be replaced to maintain ADA compliance.

Campus Wide Fire Alarm Survey

FY14 (GF: \$500.0, Total: \$500.0)

FY15-FY19 (GF: \$2,500.0, Total: \$2,500.0)

The Campus Wide Fire Alarm Survey project corrects existing code deficiencies for fire and life safety as well as major code violations and citations. These upgrades address code violations for inadequate sprinkler coverage, limited smoke and heat detection as well as the lack of ADA notification with horns and strobes.

Siemens Pyrotronics MXL Fire Alarm system is the most recent Fire Alarm system used on UAF campus. This is an intelligent panel system suitable for large facilities. Not all UAF buildings have been upgraded to this system. Buildings that need to be upgraded are: AFES Farm, Cutler Apartments, Elvey, Walsh, Fire Hall, Environmental Health & Safety, and U-Park. To determine which buildings would be upgraded first would be to prioritize risk assessment. Buildings with sleeping quarters would be first priority, then property value assessment.

Network Command Center (NCC). The MXL Fire Alarm & Detection system in each building is connected to one node at the UAF Dispatch Center. The NCC system is to be upgraded to fiber beginning with Life Sciences. A plan needs to be developed to replace the existing NCC system with fiber. Prioritize by risk assessment.

Salisbury Theater Renovation

FY14 (GF: \$2,100.0, Total: \$2,100.0)

Lee H. Salisbury, for many years, was the sole faculty member of the University's speech and drama program. He is also credited with playing a pivotal role in securing support for the theater on campus. The Lee H. Salisbury Theater was built in 1969 and dedicated in 1970 as the Fine Arts Theater. The theater seats 430 in steep, sloped seating and has a hydraulic orchestra pit.

FY14 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

When it was originally constructed, the theater had a state-of-the-art sound system, computerized lighting, and was hailed as the best equipped collegiate theater on the West Coast.

Regardless of post construction improvements, the theater wing is relatively antiquated and is in disrepair. In essence, little has been done since it was originally constructed in the late 1960's. Facility issues include the deterioration of mechanical and electrical systems, fly system, curtain system and seating, deficiencies in spatial adjacency, and spatial relationship.

Tilly Commons DM and Repurpose

FY14 (GF: \$2,000.0, Total: \$2,000.0)

FY15-FY19 (GF: \$9,000.0, Total: \$9,000.0)

In order to provide friendly and functional customer service to the UAF community, Lola Tilly Commons will be renovated for use as a One Stop Building for students, faculty, staff, and visitors. Given the location and accessibility of Lola Tilly Commons, it would be an excellent location for this type of front-end student services (admissions, registration, financial aid, fee payment). This relocation of existing services to the Commons would have the added advantage of creating vacated space in the center of campus for academic and administrative functions, particularly in the Gruening Building.

Student Services Renewal – Wood Center Student Union

FY14 (GF: \$3,250.0, Total: \$3,250.0)

FY15-FY19 (GF: \$8,750.0, Total: \$8,750.0)

The Wood Center has the advantages of a central campus location, the draw of some food service outlets, and very high levels of pedestrian traffic. Despite these advantages, Wood Center does not function as a “campus center” that attracts students in the evenings or on weekends or whenever they have spare time during the day. While there are areas within the building that are “destinations” for students, including the Pub and the bowling alley, the building as a whole is not a draw for students, even those who live on campus. Renewal work in the Wood Center will include renovation of existing spaces to allocate room for the consolidation of programs serving UAF students.

UAF Community Campus Deferred Maintenance and Renewal & Repurposing

Kuskokwim Campus Facility Critical Deferred and Voc-Tech Renewal -- Phase 2

FY14 (GF: \$900.0, Total: \$900.0)

FY15-FY19 (GF: \$6,900.0, Total: \$6,900.0)

Current maintenance and repair funding levels are not sufficient to meet the critical maintenance needs at the rural campuses. Funding will allow for continued major renovations and code upgrades to over 50,000 square feet of space. Work generally includes new architectural finishes on the inside and outside, new electrical distribution, corrected plumbing systems, and installation of code compliant ventilations systems.

UAS Main Campus Deferred Maintenance and Renewal & Repurposing

Auke Lake Way Campus Entry Improvements & Road Realignment

FY14 (GF: \$900.0, Total: \$900.0)

FY15-FY19 (GF: \$750.0, Total: \$750.0)

The 2003 UAS Campus Masterplan recommends 1) the elimination of through vehicular traffic along Auke Lake Way as it passes along the five original campus buildings and 2) the improvement of the Mendenhall Loop Road campus entrance to make it the primary entrance. The entrance from Glacier Highway cannot be improved. The road is a state right-of-way, across Federal land, with significant environmental constraints due to the Auke Lake drainage being directly adjacent. The existing roadway is too narrow to add even a sidewalk to the two existing narrow driving lanes.

Hendrickson Remodel and Renovation

FY14 (GF: \$3,600.0, Total: \$3,600.0)

The first floor of the Hendrickson Building was built in 1978 and the second floor added in 1982. The use of both floors has changed over the years from the original vocational programs to a combination of general purpose classrooms, offices and Environmental Science labs. This project will renew and remodel the Hendrickson Building to provide more effective use of the space, replace building heating and ventilation systems, and interior finishes. The lower floor is dedicated to their Environmental Science programs including geology and GIS classrooms. The lower floor also contains a large general purpose classroom and performance stage for theater and storage for the art department. Some department staff and faculty occupy former storage rooms, depleting needed storage areas and putting employees in inadequate and under-ventilated space. On the upper floor underutilized classrooms are being used as makeshift office space due to a lack of office space on campus.

Bill Ray Center Remodel

FY14 (GF: \$3,500.0, Total: \$3,500.0)

The Bill Ray Center was constructed in 1972 as a classroom building to serve primarily continuing education courses. In 1995 approximately half of the building was converted to administrative office space to free up space on campus for a larger cafeteria and expanded bookstore. Then in 2007 the administrative offices were moved back to the Auke Lake campus through the acquisition and remodeling of nearby retail space. Since that time the Bill Ray Center has been underutilized. Finding an appropriate use for Bill Ray is necessary to achieve better overall space utilization for the campus.

SW Deferred Maintenance and Renewal & Repurposing

Butrovich Building Repairs

FY14 (GF: \$1,800.0, NGF: 1,200.0, Total: \$3,000.0)

The Butrovich building was constructed in 1988 and is in need of repairs. There are five projects that are needed to address safety issues and to preservation of the building and surrounding infrastructure. These projects include repairing the retaining wall, refurbishing the front canopy, roof replacement, lighting upgrades and repairs to the sidewalks, curbs and parking lots.

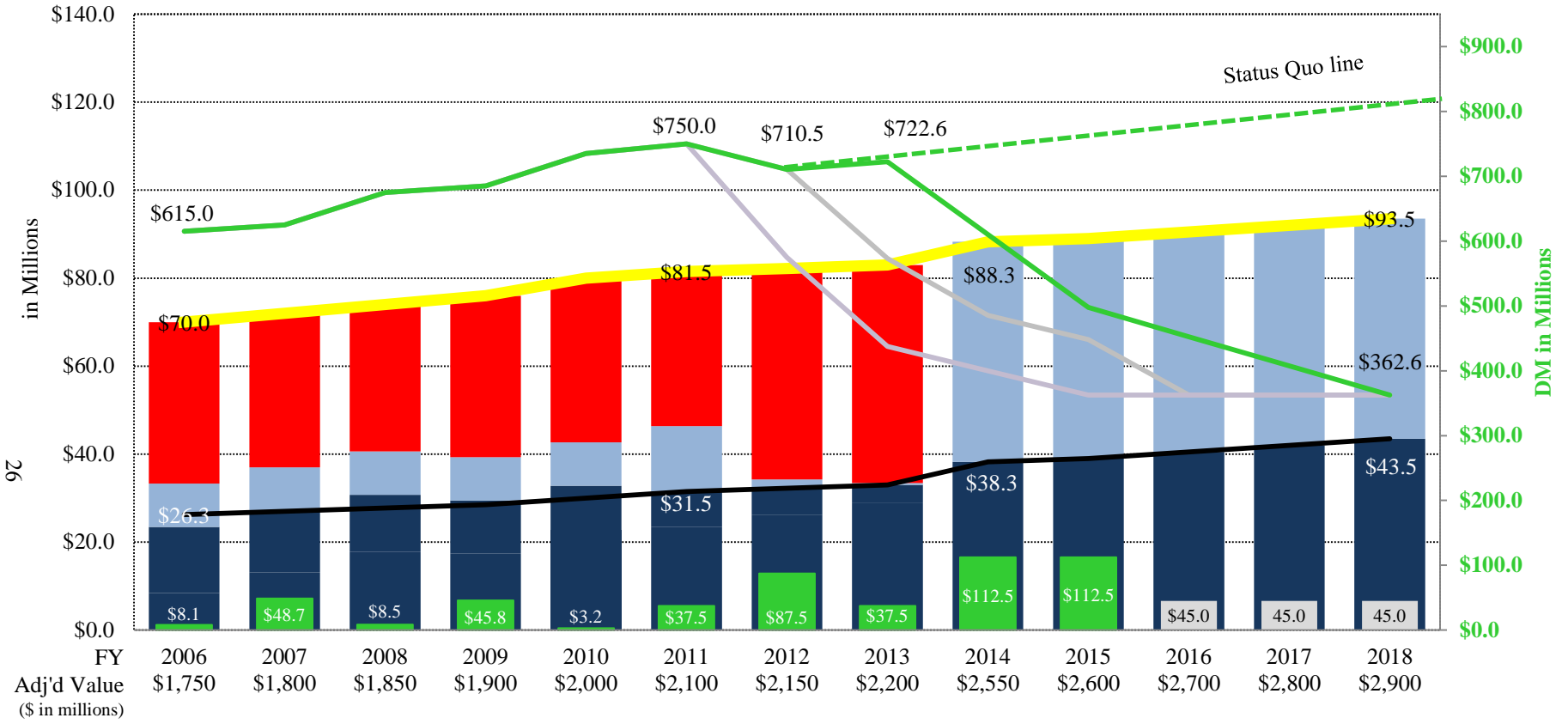
University of Alaska
FY14 Deferred Maintenance (DM) and Renewal & Repurposing (R&R)
Distribution Methodology
(Based on Age, Size, and Value of Facilities)

	Location	#of Bldgs	Average Age (years)	Weighted Avg. Age (years)	Gross Area (sq. feet)	Adjusted Value (thousands)	Dist. % *	DM Model of \$37.5M
Anchorage Campus	<i>Anc.</i>	62	25.7	24.9	2,325,179	821,494.7	24.3%	9,105.0
UAA Community Campus		25	24.7	31.2	326,505	136,726.4	5.0%	1,879.0
<i>Kenai Peninsula College</i>	<i>Soldotna</i>	6	37.0	35.1	89,432	35,043.8	1.5%	
	<i>Kachemak Bay</i>							
	<i>Homer</i>	2	19.0	26.3	25,067	10,739.5	0.3%	
<i>Kodiak College</i>	<i>Kodiak</i>	5	35.8	36.5	44,981	19,238.8	0.8%	
<i>Matanuska-Susitna College</i>	<i>Palmer</i>	6	27.3	28.3	105,316	47,420.5	1.6%	
<i>Prince Wm. Sound CC</i>	<i>Valdez</i>	6	16.5	28.7	61,709	24,283.8	0.8%	
	UAA Total	87	25.5	25.7	2,651,684	958,221.1	29.3%	10,984.0
Fairbanks & CTC	<i>Fbks.</i>	238	36.7	39.7	3,216,476	1,311,049.4	59.1%	22,161.0
UAF Community Campuses		29	29.2	29.6	128,614	73,399.5	2.6%	970.0
<i>Bristol Bay Campus</i>	<i>Dillingham</i>	2	25.5	26.4	18,023	8,434.6	0.3%	
<i>Chukchi Campus</i>	<i>Kotzebue</i>	1	36.0	36.0	8,948	6,850.4	0.3%	
<i>Interior-Aleutians Campus</i>	<i>Multiple</i>	5	24.2	31.2	29,111	14,840.9	0.5%	
<i>Kuskokwim Campus</i>	<i>Bethel</i>	7	28.3	27.0	51,774	33,089.4	1.1%	
<i>Northwest Campus</i>	<i>Nome</i>	14	31.9	33.8	20,758	10,184.2	0.4%	
	UAF Total	267	34.3	39.3	3,345,090	1,384,448.9	61.7%	23,131.0
Southeast Campus	<i>Juneau</i>	34	32.2	25.3	441,648	151,112.0	4.8%	
UAS Community Campus		5	53.1	56.5	115,908	42,045.0	2.6%	
<i>Ketchikan Campus</i>	<i>Ketchikan</i>	4	36.3	37.3	47,850	23,563.0	1.0%	
<i>Sitka Campus</i>	<i>Sitka</i>	1	70.0	70.0	68,058	18,482.0	1.5%	
	UAS Total	39	28.8	31.8	557,556	193,157.0	7.4%	2,771.0
Statewide	<i>Various</i>	8	40.6	25.5	112,461	57,831.3	1.6%	614.0
	SW Total	8	40.6	25.5	112,461	57,831.3	1.6%	614.0
	UA Total	401	32.1	33.0	6,666,791	2,593,658.4	100.0%	37,500.0

Facility data from 2011 Facilities Inventory

*This distribution is based on the individual building age and adjusted value by campus

FY14 Sustainment Funding Plan for UA Facilities (Chart #1)



Annual Sustainment Funding

- M&R Annual Expenditures (Operating Budget)
- M&R Annual Maintenance (Target is 1.5% of Adjusted Value)
- R&R Annual Capital Expenditures (Target is \$50.0M a year)
- M&R/R&R Annual Investment Target
- Annual Investment Target Shortfall (adds to DM backlog)

Deferred Maintenance Reduction

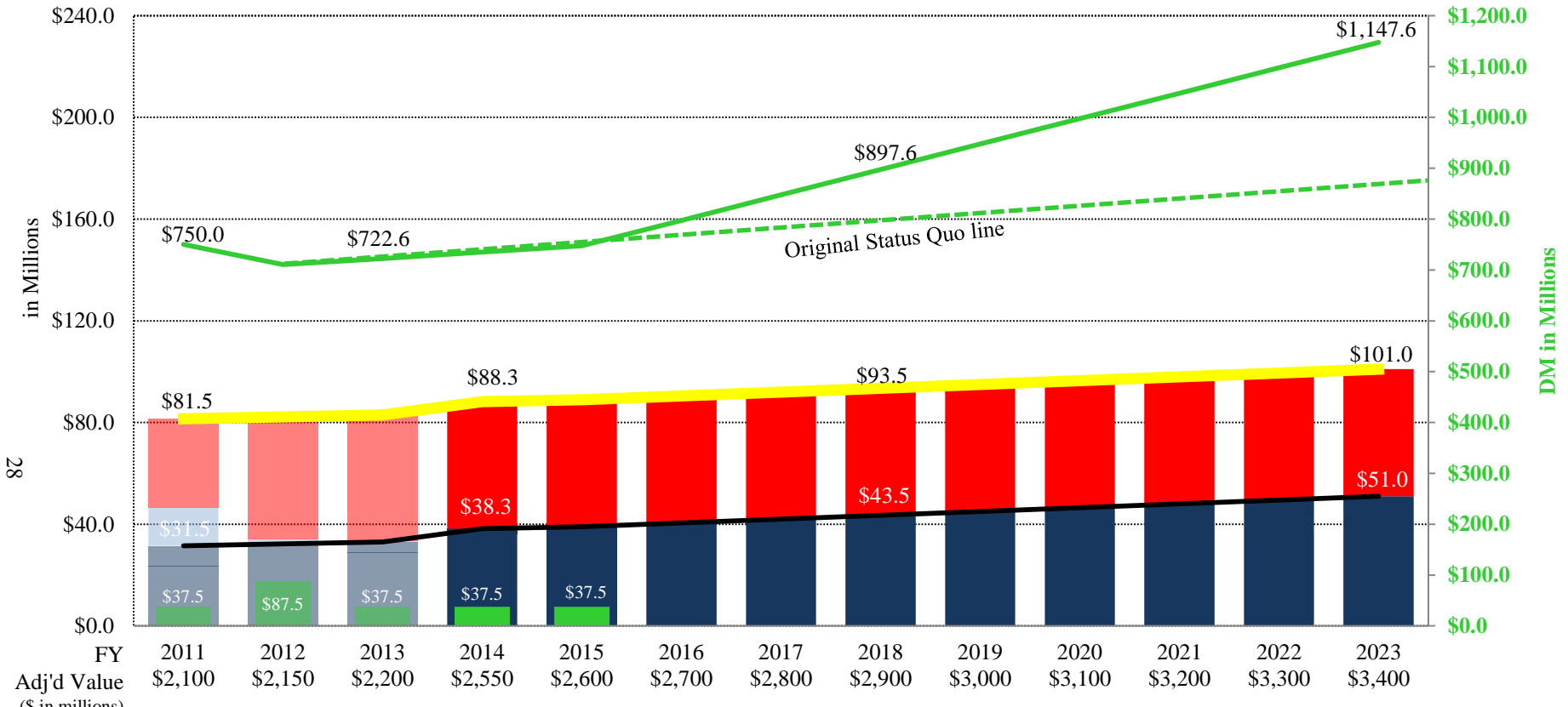
- Deferred Maintenance Reduction Expenditures (\$37.5M for 5yrs + \$200.0M)
- Additional DM funds necessary to reach sustainment level by FY18
- Deferred Maintenance Backlog with adequate M&R/R&R funding (Reduce to approximately \$360M by FY18)
- Deferred Maintenance Backlog as presented in FY12/FY13
- Deferred Maintenance Backlog without adequate R&R funding (Increases to over \$800M by FY18)

FY14 Sustainment Funding Plan for the UA Facilities (Chart #1)

This plan sets forth the funding strategy and requirements for preserving and achieving full utilization of the buildings, assets and infrastructure for the University system. The objectives are to reduce the University's deferred maintenance (DM) to approximately \$360 million by FY18 and achieve a sustainable level of funding for annual maintenance and capital reinvestment by FY19. The assumptions used in developing the plan are below.

- Adequate funds for two streams of investment are achieved by FY18: annual routine & preventative maintenance and repair, and major repair and recapitalization (building system renewal and repurposing). Making this needed investment annually is the only way to eliminate the continued increase of deferred maintenance. Status Quo (dashed green line) represents effect of not adequately making this investment.
- Annual Maintenance & Repair (M&R) operating expenditures will continue to meet or exceed the annual target of 1.5% of adjusted facility value (black line and dark blue column).
- Annual requirement for Renewal & Repurposing (R&R) will be targeted at \$50 million per year from FY11 forward, approximately at 2.5% of facilities adjusted value.
- Non-State sources have averaged over \$9 million from FY06-FY11, and are a portion of the light blue column. Sources include: Federal Title III, and University bonding. Non-state revenue sources will continue to help support R&R activities.
- State support for R&R will increase to supplement the non-state sources and provide the projected need: \$50 million per year (light blue).
- State support for reducing deferred maintenance by \$37.5 million a year through FY15, with an additional \$200 million investment in deferred maintenance over FY12 through FY15 (green column). A Facility Condition Index (FCI) is being created for FY12, and will be used to demonstrate the effects of spending to reduce the DM backlog.
- In order to reach the deferred maintenance goal, any unfunded annual R&R requirement has been added to FY16 through FY18 (grey columns).
- Deferred maintenance in FY11 (\$750 million) is based on the MAU's categorization of DM and R&R projects for FY11. A \$360 million level of DM is approximately 12% of UA's facilities replacement value, recently estimated at \$3 billion.
- Reducing deferred maintenance to \$360 million by FY18 will minimize the expenditures for emergency response maintenance, which is more expensive than performing the preventative maintenance, routine maintenance, and capital reinvestment on a planned basis (green line).
- Facilities adjusted value in FY11 is based on escalation of original construction cost over time as recorded in the fall 2010 Facility Inventory publication. Replacement value is approximately 50% higher.
- FY11 General Obligation Bond projects are projected to increase the facility adjusted value by \$300 million in FY14.

FY14 Sustainment Funding Plan for UA Facilities with No Additional DM and R&R Funding (Chart #2)



Annual Sustainment Funding

- M&R Annual Expenditures (Operating Budget)
- M&R Annual Maintenance (Target is 1.5% of Adjusted Value)
- R&R Annual Capital Expenditures (Target is \$50.0M a year)
- M&R/R&R Annual Investment Target
- Annual Investment Target Shortfall (adds to DM backlog)

Deferred Maintenance Reduction

- Deferred Maintenance Reduction Expenditures (\$37.5M for 5yrs + \$50M in FY12)
- Deferred Maintenance Backlog with only Gov's DM funding and no additional R&R funding (Increases to over \$1.1B by FY23)
- Deferred Maintenance Backlog with only historical average DM and R&R funding (Increases to over \$850M by FY23)

FY14 Sustainment Funding Plan for the UA Facilities with No Additional DM and R&R Funding (Chart #2)

This Sustainment Funding Plan with No Additional DM and R&R funding presents the potential impact if the Governor's 5 year DM funding plan ends in FY15. Without adequate facilities reinvestment from the three primary funding sources, maintenance and repair, renewal and replacement, and deferred maintenance backlog reduction expenditures, UA's DM backlog increases to approximately \$1.1B by FY23. The assumptions used in developing this scenario are below.

- Adequate funding for one stream of investment, annual routine & preventative maintenance and repair, is maintained. Making this needed investment annually helps reduce the rate at which the deferred maintenance backlog continues to increase. Status Quo (dashed green line) represents the effect of making annual investment in line with past university funding.
- Annual Maintenance & Repair (M&R) operating expenditures will continue to meet or exceed the annual target of 1.5% of adjusted facility value (black line and dark blue column).
- Annual requirement for Renewal & Repurposing (R&R) will be targeted at \$50 million per year from FY11 forward, approximately at 2.5% of facilities adjusted value. Not achieving this level of funding leads to facility investment shortfalls (red column).
- State support for reducing deferred maintenance by \$37.5 million a year through FY15, with an additional \$50 million investment in deferred maintenance in FY12 (green column).
- Deferred maintenance in FY11 (\$750 million) is based on the MAU's categorization of DM and R&R projects for FY11.
- The effect of not receiving adequate funding for annual renewal and repurposing increases the DM backlog by \$50 million a year (green line).

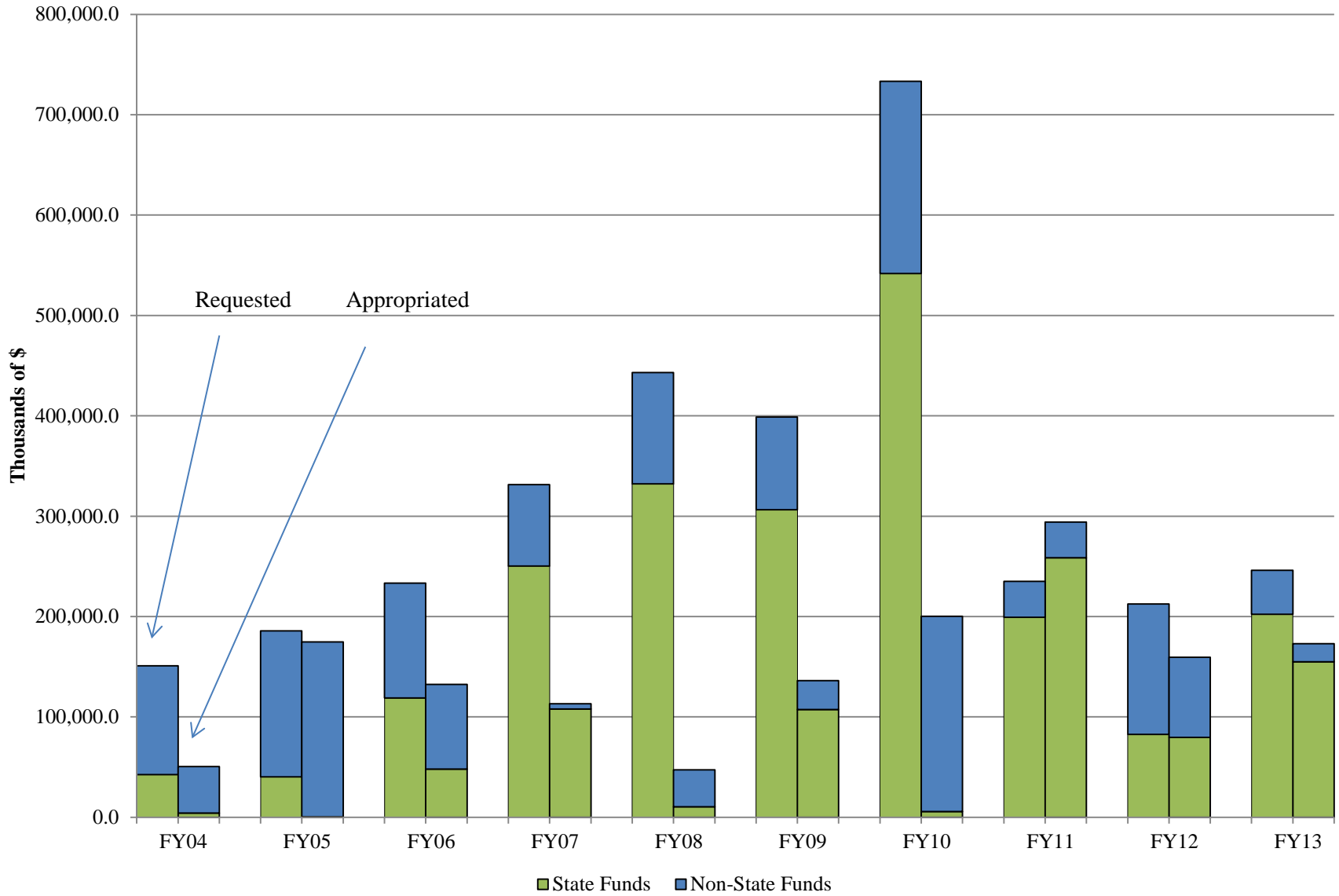
University of Alaska
 Capital Budget Request vs. State Appropriation
 FY04-FY13
 (in thousands of \$)

Request	Renewal and Renovation	Add/Expand	New Facilities	Equipment	Other¹	Total
FY04	14,007.0	3,400.0	19,515.5	4,141.5	1,405.0	42,469.0
FY05	10,055.0		26,550.0	3,111.3	550.0	40,266.3
FY06	40,753.5	2,600.0	70,536.0	4,403.4	550.0	118,842.9
FY07	87,520.0	9,650.0	135,983.0	16,721.9	550.0	250,424.9
FY08	131,016.0	6,395.0	186,500.0	7,874.7	550.0	332,335.7
FY09	114,000.0	2,000.0	163,870.0	26,000.0	550.0	306,420.0
FY10	204,130.0		194,495.0	90,000.0	53,150.0	541,775.0
FY11	100,000.0		99,375.0			199,375.0
FY12	70,433.0				12,092.5	82,525.5
FY13	187,500.0				14,700.0	202,200.0
Total	959,414.5	24,045.0	896,824.5	152,252.8	84,097.5	2,116,634.3
10 yr. Avg	95,941.5	2,404.5	89,682.5	15,225.3	8,409.8	211,663.4

Approp.	Renewal and Renovation	Add/Expand	New Facilities	Equipment	Other¹	Total
FY04	3,641.5				450.0	4,091.5
FY05					450.0	450.0
FY06	8,100.0	1,950.0	35,700.0	1,750.0	550.0	48,050.0
FY07	48,725.0		58,500.0		715.0	107,940.0
FY08	8,475.0		1,250.0		640.0	10,365.0
FY09	45,822.6		61,300.0		125.0	107,247.6
FY10	3,200.0		2,500.0			5,700.0
FY11	43,539.3		213,881.7	400.0	610.7	258,431.7
FY12	39,500.0	2,000.0	35,800.0		2,204.0	79,504.0
FY13	37,950.0	50.0	108,900.0		7,990.0	154,890.0
Total	238,953.4	4,000.0	517,831.7	2,150.0	13,734.7	776,669.8
10 yr. Avg	23,895.3	400.0	51,783.2	215.0	1,373.5	77,667.0

¹ Includes research, small business development center and other capital funding requests or appropriations

**University of Alaska
Capital Request and Appropriation Summary
FY04-FY13**

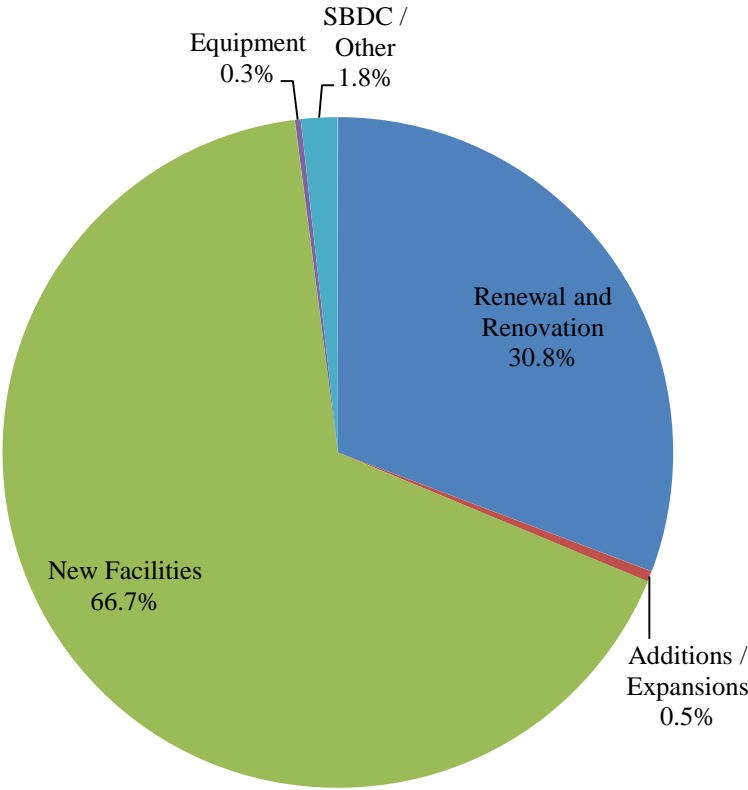


University of Alaska
State Appropriation Summary by Category
FY04-FY13
(in thousands of \$)

Campus	Location	Renewal and Renovation		Additions / Expansions		New Facilities		Equipment		SBDC / Other		Total	
Anchorage Campus	Anchorage	54,415.3	22.8%			295,100.0	57.0%	490.0	22.8%	4,550.0	33.1%	354,555.4	45.7%
Kenai Peninsula College	Soldotna	7,345.1	}	800.0	}	35,300.0	}	27.5	}	50.0	}	42,722.6	}
	Kachemak Bay Homer	557.3				2,750.0		165.0		4,272.3			
Kodiak College	Kodiak	1,765.1	8.6%			350.0	12.6%		3.9%		1.6%	2,115.1	11.2%
Matanuska-Susitna College	Palmer	3,930.0				23,850.0		55.3				27,835.3	
Prince Wm. Sound Com. College	Valdez	6,922.9				3,050.0						9,972.9	
UAA		74,935.7	31.4%	800.0	20.0%	360,400.0	69.6%	572.8	26.6%	4,765.0	34.7%	441,473.5	56.8%
Fairbanks Campus	Fairbanks	108,515.6				143,431.7		670.1		8,125.0		260,742.4	
Fairbanks Campus	Juneau		} 45.5%		}	10,000.0	} 29.6%		}	31.2%	} 59.2%	10,000.0	} 34.9%
Fairbanks Campus	Palmer	300.0		300.0									
Fairbanks Campus	Seward												
Bristol Bay Campus	Dillingham	65.0		1,200.0						50.0		1,315.0	
Chukchi Campus	Kotzebue	38.6								50.0		88.6	
Interior-Aleutians Campus	Tok		} 4.6%	}	}		}		}		}	7.3	} 1.6%
Interior-Aleutians Campus	Fort Yukon	7.3				7.3							
Interior-Aleutians Campus	Fairbanks	47.7								50.0	2.5%	97.7	
Kuskokwim Campus	Bethel	6,321.5								50.0		6,371.5	
Northwest Campus	Nome	4,496.8								50.0		4,546.8	
Fairbanks Campus (CES)	Kenai									90.0		90.0	
UAF Comm. & Tech. College	Fairbanks	16,745.3	7.0%							50.0	0.4%	16,795.3	2.2%
UAF		136,537.8	57.1%	1,200.0	30.0%	153,431.7	29.6%	670.1	31.2%	8,515.0	62.0%	300,354.6	38.7%
Juneau Campus	Juneau	20,613.9	8.6%	2,000.0	50.0%	4,000.0	0.8%	741.1	34.5%	204.0	1.5%	27,559.0	3.5%
Ketchikan Campus	Ketchikan	1,849.8	} 1.2%		}		}		}	30.4	} 0.4%	1,880.2	} 0.4%
Sitka Campus	Sitka	1,062.2		1,092.6									
UAS		23,525.9	9.8%	2,000.0	50.0%	4,000.0	0.8%	741.1	34.5%	264.7	1.9%	30,531.7	3.9%
Statewide	Fairbanks	2,532.0	} 1.7%		}		}	166.0	7.7%	190.0	1.4%	2,888.0	} 0.6%
Systemwide	Systemwide	1,422.0		1,422.0									
SW		3,954.0	1.7%					166.0	7.7%	190.0	1.4%	4,310.0	0.6%
UA Grand Total		238,953.4	100.0%	4,000.0	100.0%	517,831.7	100.0%	2,150.0	100.0%	13,734.7	100.0%	776,669.8	100.0%
		30.8%		0.5%		66.7%		0.3%		1.8%		100.0%	

State Appropriation Summary by Category FY04 -FY13

New Facilities and Major Expansions



UAA

- AK Cultural Center & PWSCC Training Center (FY07)
- Integrated Science Facility (FY06, FY07)
- Center for Innovative Learning - ANSEP (FY06)
- Kodiak College Vocational Technology (FY06)
- Matanuska-Susitna Campus Addition (FY06)
- Student Housing (FY06)
- Kachemak Bay Campus New Facility (FY08, Reapprop FY10, FY11)
- Health Sciences Building (FY09)
- Engineering Facility Planning, Design and Construction (FY11, FY13)
- Kenai Peninsula College Campus Student Housing (FY11, FY12)
- Kenai Peninsula College Campus Career & Technical Education Center (FY11)
- Matanuska-Susitna Campus Valley Center for Art & Learning (FY11)
- Community Sports Arena (FY09, FY11, FY12)

UAF

- Lena Point Fisheries Phase I & II (FY06)
- Museum of the North (FY07)
- Engineering & Technology Project Design, Development and Construction (FY11, FY13)
- Life Sciences Classroom and Laboratory Facility (FY11)

UAS

- Banfield Hall Dormitory Addition (FY12, FY13)