



UNIVERSITY

Proposed FY16 Capital Budget and 10 Year Capital Improvement Plan

Board of Regents
November 5-6, 2014
Fairbanks Alaska

Prepared by Statewide Planning & Budget
450-8191

University of Alaska
Proposed FY16 Capital Budget Request and
10-Year Capital Improvement Plan
Introduction

Presented within are the proposed FY16 Capital Budget Request and the 10-Year Capital Improvement Plan. The goal of the Board of Regents' University of Alaska FY16-FY25 Capital Improvement Plan (CIP) is to guide decision making that ensures the necessary facilities, equipment, and infrastructure are in place to support the academic direction of the university system as prescribed in the UA Ac20.004 TcD(em)-6(i)-6(c)]TJ M0.002 Tc147.9 0 Td1 [(FY)-4atem Cr

	State Approp.	Receipt Auth.	Total
Deferred Maintenance (DM) / Renewal & Repurposing (R&R)	50,000.0		50,000.0
UA DM/R&R for University Building Fund Facilities	12,500.0		12,500.0
UAA Main Campus	8,983.0		8,983.0
UAA Community Campuses	1,915.6		1,915.6
UAF Main Campus	21,986.0		21,986.0
UAF Community Campuses	1,054.9		1,054.9
UAS Main & Community Campuses	2,651.0		2,651.0
SW Statewide	909.5		909.5
 New Starts/Continuation			
UAF Engineering Building Completion	31,300.0	5,000.0	36,300.0
UAF Alaska Center for Energy and Power (ACEP) Office Build-out		6,500.0	6,500.0
UAS Student Commons		1,500.0	1,500.0
UAA ANC & PWSC Traffic, Parking & Security Improvements	2,183.0		2,183.0
UAA KPC Kachemak Bay Campus Gas Conversion	210.0		210.0
UAA Mat-Su Bridge Enclosure	607.0		607.0
 Research for Alaska			
UAF Unmanned Aircraft Systems in the Arctic (ACUASI)	5,000.0	5,000.0	10,000.0
UAF Energy & Remote Power Partnerships for Alaska's Future (ACEP)	3,000.0	8,000.0	11,000.0

	State Approp.	Receipt Auth.	Total	Short-Term FY17-FY18	Mid-Term FY19-FY20	Long-Term FY21-FY25
Deferred Maintenance (DM) / Renewal & Repurposing (R&R)						
Facilities Deferred Maintenance/Renewal & Repurposing	50,000.0		50,000.0	100,000.0	100,000.0	
Modernize Classrooms				10,000.0	10,000.0	25,000.0
New Starts/Continuation						
Academic Facilities						
UAF Engineering Building Completion	31,300.0	5,000.0	36,300.0			
UAA Kodiak Career & Technical Education Center					2,430.0	21,870.0
UAA Health Sciences Phase II Building and Parking Structure					13,200.0	118,800.0
Research Facilities						
UAF Alaska Center for Energy and Power (ACEP) Office Build-out		6,500.0	6,500.0			
UAF West Ridge Research Building #2 ³				5,000.0	50,000.0	45,000.0
Student Life (Housing), Support, and Other Facilities						
UAS Student Commons ³ (\$9.8M NGF)		1,500.0	1,500.0	3,500.0		
UAF Public/Private Partnership (P3) Campus Housing Project (\$65.0 M NGF)				6,500.0		
UAF Kuskokwim Campus Consortium Learning Center					7,200.0	
UAF CTC Fire and Emergency Services Training and Education Facility (\$13.5M NGF)					18,100.0	
UAS Auke Lake Student Networking and Development Spaces				750.0	1,100.0	
Infrastructure, Land, Property, and Facilities Acquisitions						
UAA PWSC & ANC Traffic, Parking & Security Improvements	2,183.0		2,183.0	4,127.0		

FY16-FY25 Capital Budget Request Project Descriptions

FY2016 Capital Budget Requests

FY16-FY25 Capital Budget Request Project Descriptions

The state provided incremental funding for this project in FY12 through FY15 leaving an unfunded balance of \$28.3 million dollars. Delayed funding has caused a bifurcation in the scope of work that does not follow the normal schedule of construction activities for such a building. Delayed funding also means the opening of the building is delayed until at least Spring semester 2017. Because the earliest possible completion date is 18 months beyond the original date, the FY16 request is \$31.3 million dollars; the three million dollar increase will cover inflation in material and labor costs and a portion of the extended general conditions cost.

UAF Alaska Center for Energy and Power (ACEP) Office Buildout
FY16 (GF: \$0.0, NGF: \$6,500.0, Total: \$6,500.0)

UAF will complete the shelled space on the fourth floor of the UAF Engineering Facility to provide research labs, offices, and support space for the Alaska Center for Energy and Power (ACEP). The space will also have collaboration areas, allowing for a more integrated research approach with external partners. With completion of this project, in combination with the multi-bay research building constructed in 2011-2012, ACEP will have the physical space necessary to pursue its mission.

UAS Student Commons

FY16 (GF: \$0.0, NGF: \$1,500.0, Total: \$1,500.0) Planning and Design

FY19-FY20 (GF: \$3,500.0, NGF: \$9,800.0, Total: \$13,300.0)

Per the 2012 UAS Masterplan the primary challenge facing UAS in its mission to support community engagement is the lack of suitable venues on all three campuses for engaging the broader community and partners with shared visions and goals. As a result, UAS continues to host events, lectures, and cultural performances in spaces ill equipped or large enough to accommodate large gatherings. The university's popular Evening at Egan Lecture Series, for example, is hosted in the Egan Library. This space lacks appropriate sightlines for large audiences.

All three campus locations would benefit from larger venues for hosting music, dance, theatrical and other cultural performances. Smaller venues specifically designed for the temporary installment and public demonstration of student, faculty, and visiting lecturer research and creative expression is also lacking. Current space utilized for this purpose is often in high traffic corridors and hallways that do not lend themselves to public viewings or small group discussion.

Improvements to Juneau Campus dining options and facilities are a high priority. Commuter and resident students alike would benefit from both convenient locations as well as diverse food options. With the new resident hall at the Juneau Auke Lake campus, updated and redesigned dining facilities should be a high priority.

Amenities should be built and expanded that encourage both resident and commuter students to remain on campus in order to strengthen both the social and academic aspects of campus life. This is an especially critical need during the winter months. Indoor amenities could include:

- Coffee house
- Improved late-night food options
- Game areas and wellness rooms
- Comfortable lounge space and study space
- Relocated/expanded retail opportunities

FY16-FY25 Capital Budget Request Project Descriptions

Juneau campus vision: Multiple gathering spaces are provided in central locations as a resource for commuter students as well as residential students. A new ~~first~~ student residence hall with living/learning center will be tucked away in ~~wooded~~ hillside within campus Kwáan. A new student union will provide expanded dining options and relocate the bookstore also within the campus Kwáan.

UAA PWSC & ANC Traffic, Parking, & Security Im provements

FY16 (GF: \$2,183.0, NGF: \$0.0, Total: \$2,183.0)

FY17-FY18 (GF: \$4,127.0, NGF: \$0.0, Total: \$4,127.0)

FY19-FY20 (GF: \$465.0, NGF: \$0.0, Total: \$465.0)

FY21-FY25 (GF: \$775.0, NGF: \$0.0, Total: \$775.0)

Prince William Sound College: This project will address safety issues such as vehicle circulation, parking lot lighting, building lighting and security cameras. This project will renew landscaping around the parking area and the buildings. This work is driven by a need for an increased security presence on campus and reconfiguration of the area based on the Whitney Museum addition which was completed in spring 2008.

Anchorage Campus: One of the primary results of the 2013 Campus Master Planning Study was identifying the need for improved vehicular, bicycle, and pedestrian access, egress, and circulation within the UAA Main Campus. Several UAA, MOA, and DOT projects either in planning or under construction will impact traffic patterns at UAA and within the UMED District. It will be to UAA's benefit to construct road improvements in conjunction with these projects in order to improve traffic flow within UAA and the UMED District, and to secure MOA approval for the projects. As part of the new Engineering building the necessary work on the east side of Mallard Lane has been accomplished. This request includes funding for UAA's contribution to the ~~intersection~~ on the west end of the road.

UAA KPC Kachemak Bay Campus Gas Conversion

FY16 (GF: \$210.0, NGF: \$0.0, Total: \$210.0)

FY17-FY18 (GF: \$290.0, NGF: \$0.0, Total: \$290.0)

When the original Pioneer Building and the Bayview Building were originall18 (\$0u

FY16-FY25 Capital Budget Request Project Descriptions

on this market opportunity. The timing of this investment is essential, so as global activity is ramping up Alaska is well positioned to compete (and win). Specific priorities for this initiative include:

Developing new market opportunities for Alaska expertise in microgrids. The goal of this initiative is to generate new sources of revenue and develop a market for high quality jobs for Alaskan residents. This would be accomplished by cataloging the extensive microgrid expertise found within the state, matching that expertise with opportunities elsewhere, and deploying both industry and academic resources to facilitate Alaska market entry.

Enhancing ACEP's testing capabilities. This funding will be heavily leveraged with industry contracts to add capacity to the Power Systems Integration Lab and the Tanana River Hydrokinetic Test Site. These flexible platforms are attractive to industry for validating technology relevant to the Alaska and developing global energy market, giving Alaska a head in technology testing and optimization.

Expanding capacity within ACEP's Energy Analysis Group. Funding will allow faculty and students to conduct research with the goal of supporting informed decision-making by providing neutral, unbiased information about the way we manage, produce, and use energy in Alaska, with an emphasis on interpretation and knowledge creation outside typical state energy mandates.

Enabling student learning and interaction with Alaska's energy industry. This funding will allow students to work with ACEP researchers and Alaska's small businesses to strengthen university-industry relationships. Examples include summer industry internships and post-secondary training opportunities in needed technology areas, or where Alaska has a first-mover advantage.

UAF Center for Arctic Sustainable Development FY16 (GF: \$3,000.0, NGF: \$500.0, Total: \$4,500.0)

The threat of an Arctic marine oil spill is not limited to offshore resource production facilities. It includes risks from increased shipping of tankers, bulk carriers, cruise ships, and fuel barges, hazards associated with pipelines, and community-based and industrial facilities. The National Academies published the most recent report, Responding to Oil Spills in the U.S. Arctic Marine Environment (April 2014), highlighting the need for a comprehensive, collaborative, and coordinated long-term research program that can link together the efforts of industry, government, academia, international partners, local experts and non-governmental organizations.

The Center for Arctic Sustainable Development (CASD) is Alaska's response to this report and other similar reports from other agencies. These reports underscore a unique opportunity to build and implement a center focused on addressing these challenges at America's Arctic University, UAF, in collaboration with leading experts across academia, industry and government. By locating the oil-related research center in northern Alaska, the expertise will be developed within the cultures and communities who would be most affected by, and are most likely to respond to, an oil spill in the Arctic. CASD has been proposed to the National Science Foundation (NSF) as a UAF center that will formalize relationships and communication pathways among scientists, Arctic communities, industry, state and federal agencies and international partners. Through a program involving applied research, education and outreach, this center will ensure that the knowledge gained by by-14(a)-4(w-

FY16-FY25 Capital Budget Request Project Descriptions

CASD will leverage the extensive and growing collection of Arctic-based research at DAFW (15.96)-4(i)-6.1

FY16-FY25 Capital Budget Request Project Descriptions

10-Year Capital Improvement Plan Projects (FY17-FY25)

UA Modernize Classrooms

FY17-FY25 (GF: ~~\$15,000.0~~, NGF: \$0.0, Total: ~~\$4500.0~~)

Classroom modernization (\$5.0 million per year) is important to the University of Alaska to be able to instruct students using up-date equipment and methods. As equipment ages, it deteriorates, but it also becomes obsolete or minimally used, especially in an industry context. In order to keep up with current educational standards, classrooms must be updated. These kinds of updates include work to remodel science labs, increase the University's capacity to provide e-Learning, and to provide needed vocational technology equipment. This request amount is an estimation of the annual modernization need.

UAA Kodiak Career & Technical Education Center

FY19-FY20 (GF: ~~\$2,430.0~~, NGF: \$0.0, Total: ~~\$2430.0~~) – Planning and Design

FY21-FY25 (GF: \$21,870.0, NGF: \$0.0, Total: \$21,870.0)

The Vocational Technology Center (VOTECH) Building on the Kodiak campus was constructed in 1973 and as its outdated name implies, was designed and built for a different era. The facility no longer meets the Career Vocational and Technical (CTE) needs of industry and business partners for the types of classes and workforce training needs currently in demand in the Kodiak community, including the largest US Coast Guard base and island's seven rural villages. Attempting to meet the expanded and steadily increasing needs over the last seven years, the College has been only partially successful by conducting courses at the local high school. Unfortunately, courses may only be offered after the traditional high school day, thereby severely limiting the number of programs and courses offered. Local school district prioritization limits availability and access to facilities to one or occasionally two weekday evenings only, with no ability to use facilities during traditional workday hours, on weekends, during school vacations, closures and summer months. Having more hours of access to facilities in which to offer courses would allow the college to increase opportunities for students. In order to meet the growing program and space needs for the construction, welding, occupational safety, fitness, marine maintenance and repair, alternative energy, diesel, 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. In the past two years alone, new grant funded equipment has been obtained by the college totaling more than \$280,000. This equipment would be more secure, better maintained and less likely to be misused or damaged if access were limited to college students in a college location. It has become a challenge to ensure correct use and effective stewardship of these valuable resources. Kodiak students are forced to pay much more for course materials fees due to the inability of the College to buy materials in bulk due to storage limitations. The campus is therefore in need of a secure warehouse and maintenance space to support the equipment used to maintain campus facilities and store equipment when not in use. Having this equipment has reduced the reliance on independent contractors, thereby reducing maintenance expenses. e.g. snow removal, grounds maintenance, etc.

UAA Health Sciences Phase II Building and Parking Structure

FY19-FY20 (GF: \$13,200.0, NGF: \$0.0, Total: \$13,200.0) – Planning and Design

FY21-FY25 (GF: \$118,800.0, NGF: \$0.0, Total: \$118,800.0)

UAA is uniquely situated, surrounded by two of the largest hospital complexes in Alaska. As the U 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 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.

FY16-FY25

Project Name	DM	R&R	Total
UAA Main Campus			
Emergency Infrastructure Repair/Replacement	2,000.0		2,000.0
Campus Building Envelope & Roof Systems Renewal	800.0	200.0	1,000.0
Campus Building Interior & Systems Renewal	250.0	250.0	500.0
Campus Exterior Infrastructure and Signage Renewal	200.0	50.0	250.0
EM1 and EM2 Mechanical	3,000.0		3,000.0
WFSC Near Term Renewal & Repurposing		2,860.0	2,860.0
Consortium Library Old Core Mechanical Upgrades	4,316.0		4,316.0
Fine Arts Mechanical System Renewal		74.0	74.0
UAA Main Campus Subtotal	10,566.0	3,434.0	14,000.0
UAA Community Campuses			
KPC Campus Renewal	375.0	375.0	750.0
Kodiak College Campus Renewal	215.6	400.0	615.6
PWSC Campus Renewal	155.0	200.0	355.0
Mat-Su Campus Renewal	300.0	392.0	692.0
KPC Kachemak Bay Campus Renewal	95.0	95.0	190.0
Mat-Su Parking/Road/Circulation Renewal	50.0	50.0	100.0
KPC Kenai River Campus Brockel Building Renewal	150.0	200.0	350.0
UAA Community Campuses Subtotal	1,340.6	1,712.0	3,052.6
UAA DM and R&R Total	11,906.6	5,146.0	17,052.6
UAF Main Campus			
Critical Electrical Distribution	4,370.0	2,000.0	6,370.0
Fairbanks Campus Main Waste Line Repairs	2,000.0		2,000.0
Fairbanks Main Campus Wide Roof Replacement	2,500.0		2,500.0
West Ridge Facilities Deferred Maintenance and Revitalization	8,000.0	1,000.0	9,000.0
ADA Compliance Campus Wide: Elevators, Ramps, Restrooms	600.0	400.0	1,000.0
Elevator/Alarms Scheduled Upgrading and Replacement	50.0	450.0	500.0
Fairbanks Campus Building Interior & Systems Renewal	500.0		500.0
Cogen Heating Plant Required Upgrades to Maintain Service and Code Corrections	1,000.0	660.0	1,660.0
Patty Center Revitalization	2,700.0	300.0	3,000.0
Gruening Revitalization	1,500.0		1,500.0
Campus Infrastructure	500.0	500.0	1,000.0
Ski, Bike, and Pedestrian Safety	500.0		500.0
UAF Main Campus Subtotal	24,220.0	5,310.0	29,530.0
UAF Community Campus			
Kuskokwim Campus Facility Critical Deferred and Voc-Tech Renewal -- Phase 2	1,054.9		1,054.9
UAF Community Campus Subtotal	1,054.9		1,054.9
UAF DM and R&R Total	25,274.9	5,310.0	30,584.9
UAS Main Campus			
Whitehead/Hendrickson Renewal	4,485.0		4,485.0
TEC Renewal Phase 3	1,800.0		1,800.0
UAS DM and R&R Total			

UAA Main Campus

- x Emergency Infrastructure Repair/Replacement
FY16 (GF: \$2,000.0, NGF: \$0.0, Total: \$2,000.0)
FY17-FY25 (GF: \$0.0, NGF: \$0.0, Total: \$0.0)
During repairs to heating lines entering the UAA Engineering Building, excessive ground water was encountered. The source of the groundwater was determined to be storm water and cooling water discharge escaping from the East Campus storm drain system. The storm drain was inspected by ~~can~~ and shown to have numerous major breaks in approximately 1500 feet of the line, allowing storm water and cooling water discharge to escape at numerous locations along the line.

- x Campus Building Envelope & Roof Systems Renewal
FY16 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)
FY17-FY25 (GF: \$9,000.0, NGF: \$0.0, Total: \$9,000.0)
This project will address campus-wide deferred maintenance and renewal and renovation requirements for building envelope and roof systems. It will include roof repair and replacement, doors, windows, vapor barriers, siding, weatherization, insulation; and other building envelope issues.

- x Campus Building Interior & Systems Renewal
FY16 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)
FY17-FY25 (GF: \$4,500.0, NGF: \$0.0, Total: \$4,500.0)
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 systems ~~not~~.

- x Campus Exterior Infrastructure and Signage Renewal
FY16 (GF: \$250.0, NGF: \$0.0, Total: \$250.0)
FY17-FY25 (\$2,250.0, NGF: \$0.0, Total: \$2,250.0)
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. Increased enrollment and subsequent staffing increases dictate a need to upgrade and repair these surfaces ~~des to maintain~~ a safe and effective environment for students, staff and the public, as well as a need to provide adequate exterior wayfinding signage.

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

will also provide a properly controlled storage environment for educational material, furnishings, musical instruments and equipment.

UAA Community Campuses

x KPC Campus Renewal

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

x PWSC Campus Renewal

FY16 (GF: \$355.0, NGF: \$0.0, Total: \$355.0)

FY17-FY25 (GF: \$3,195.0, NGF: \$0.0, Total: \$3,195.0)

The GrowderHarrison building was originally build 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~~ are 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.

x Mat-Su Campus Renewal

FY16 (GF: \$692.0, NGF: \$0.0, Total: \$692.0)

FY17-FY25 (GF: \$6,136.0, NGF: \$0.0, Total: \$6,136.0)

This project will address campus wide deferred maintenance issues and renewal and renovation requirements for the Mat-Su Campus.

The buildings on the Mat-Su campus are 130 years old and their roofs need to be

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

lack of adequate sidewalks and other deficiencies that pose a safety hazard or are increasingly susceptible to additional damage. paved surfaces caused dirt and mud to be tracked into the building damaging the carpets and floor coverings. 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.

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

x West Ridge Facilities Deferred Maintenance and Revitalization

FY16 (GF: \$9,000.0, NGF: \$0.0, Total: \$9,000.0)

FY17-FY25 (GF: \$205,000.0, NGF: \$0.0, Total: \$205,000.0)

The majority of the facilities located on UAF West Ridge were built in the late 1960s and early 1970s. Irvings 1 and 2, Elvey, O'Neill, and Arctic Health Research 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.

x ADA Compliance Campus Wide: Elevators, Ramps, Restrooms

FY16 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

FY17-FY25 (GF: \$5,500.0, NGF: \$0.0, Total: \$5,500.0)

The Campus Wide ADA Compliance project is an on-going effort to bring the UAF Fairbanks campus and associated community and research campuses into compliance with ADA guidelines. This project includes accessibility improvements such as renovations to restrooms, improvements to accessibility routes both inside and outside buildings, replacing drinking fountains, upgrading elevators, and replacing stairwell handrails.

x Elevator/Alarms Scheduled Upgrading and Replacement

FY16 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY17-FY25 (GF: \$4,500.0, NGF: \$0.0, Total: \$4,500.0)

UAF Facilities Services manages the operation and maintenance for a fleet of approximately 50 elevators and lifts with an average age of over 25 years. With the help of an FY01 audit, 28

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

x Fairbanks Campus Building Interior & Systems Renewal

FY16 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY17-FY25 (GF: \$4,500.0, NGF: \$0.0, Total: \$4,500.0)

This project will focus on critically needed existing building interiors and systems renewal. Particular emphasis will be on instructional spaces, classrooms, labs and research.

x Cogen Heating Plant Required Upgrades to Maintain Service and Code Corrections

FY16 (GF: \$1,660.0, NGF: \$0.0, Total: \$1,660.0)

FY17-FY25 (GF: \$17,340.0, NGF: \$0.0, Total: \$17,340.0)

In 1963, the UA Board of Regents agreed that the utilities on main campus should be consolidated into a new combined heat and power plant that offered redundancy, reliability, and effective use of current technology. In the past 50 years the plant has undergone expansions to keep up with the growing campus physical plant. Unfortunately, there has been limited renewal of the major components of the utility systems. Critical over haul of

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

Reconstruct Feedwater pumping station: This measure would remove the abandoned 1960's vintage feedwater pumping station and replace it with new technology, efficient, multistage pumps.

Improve Domestic water taste (membrane filtration): This measure would install point-of-use membrane filtration units in key locations to reduce consumer concern about taste.

Pave Atkinson parking lot for dust control (air permit issue): Vehicle access around the plant by ash hauling trucks, fuel delivery and plant operations creates dust which is a violation of the current air permit. There is potential for UAF to be cited by ADEC for this.

x Patty Center Revitalization

FY16 (GF: \$3,000.0, NGF: \$0.0, Total: \$3,000.0)

FY17-FY25 (GF: \$27,000.0, NGF: \$0.0, Total: \$27,000.0)

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 50-year-old facility. The facility must be upgraded to meet basic competition standards.

x Gruening Revitalization

FY16 (GF: \$1,500.0, NGF: \$0.0, Total: \$1,500.0)

FY17-FY25 (GF: \$10,200.0, NGF: \$0.0, Total: \$10,200.0)

Gruening is the major instructional building on campus, with both classrooms and faculty offices. In excess of 40 years old, the building systems are near or at life expectancy and in need revitalization.

x Campus Infrastructure

FY16 (GF: \$1,000.0, NGF: \$0.0, Total: \$1,000.0)

FY17-FY25 (GF: \$5,450.0, NGF: \$0.0, Total: \$5,450.0)

The UAF Fairbanks campus is serviced by infrastructure that was constructed up to 60 years ago when the student population and vehicle traffic were only a fraction of what they are today.

In addition to necessary communications infrastructure improvements, 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.

Typical projects include multiple sidewalk, curb, gutter and ramp improvements, completion of the northern link of Tanana Loop and the roundabout on Tanana Drive, and communication infrastructure upgrades. The project will also create safe and attractive

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

pedestrian walkways close to the roadway for non-motorized users. Existing roads will be resurfaced and sidewalks will be replaced to maintain ADA compliance.

x Ski, Bike, and Pedestrian Safety

FY16 (GF: \$500.0, NGF: \$0.0, Total: \$500.0)

FY17-FY25 (GF: \$4,500.0, NGF: \$0.0, Total: \$4,500.0)

This project will focus on addressing the safety issues and reducing points of conflict with pedestrians, bikes and vehicles on campus. A significant number of students park their cars for long-term on campus and walk to and from classes. ~~Similar~~ because of the Sustainability UAF Green Bike Program a number of students are also using bikes on campus.

UAF Community Campus

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

FY16 (GF: \$1,054.9.0, NGF: \$0.0, Total: \$1,054.9)

FY17-FY25 (GF: \$11,915.1, NGF: \$0.0, Total: \$11,915.1)

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

x Whitehead/Hendrickson Renewal

FY16 (GF: \$4,485.0, NGF: \$0.0, Total: \$4,485.0)

FY17-FY25 (GF: \$1,495.0, NGF: \$0.0, Total: \$1,495.0)

This project represents the remaining phases of the project "Juneau Campus Modifications 2014-2016";which received Formal Project Approval in February 2014.

The Whitehead and Hendrickson buildings require upgrades to major building systems including mechanical, electrical, exterior envelope and building system controls. These improvements are needed to improve energy efficiency, reduce operational costs, and replace systems and components that are at the end of their service life.

In the process of making these improvements, UAS will take this opportunity to reconfigure the interior spaces to use these spaces more efficiently and to provide for a more effective assignment of space to the departments.

x TEC Renewal Phase 3

FY16 (GF: \$1,800.0, NGF: \$0.0, Total: \$1,800.0)

FY17-FY25 (GF: \$0.0, NGF: \$0.0, Total: \$0.0)

The Technology Education Center is the principal ~~education~~ education teaching facility at the UAS Juneau campus. This project would be the third phase of a significant renewal and repurposing of this 35 year old facility. Phase 1 will be completed in the fall of 2014 and

FY16 Priority Deferred Maintenance (DM) and Renewal & Repurposing (R&R) Project Descriptions

phase 2 is scheduled for construction in the summer of 2015. This third and final phase will complete the work identified in the 2013 Formal Project Approval.

Statewide

x Butrovich Building Repairs

FY16 (GF: \$909.5, NGF: \$0.0, Total: \$909.5)

FY17-FY25 (GF: \$0.0, NGF: \$0.0, Total: \$0.0)

The Butrovich building was constructed in 1988 and is at a point where many of its building components are reaching their life cycle end. Over the next five to ten years many of the main mechanical systems will come due for replacement or refurbishing.

Location	# of Bldgs	Average Age (years)	Weighted Avg. Age (years)	Gross Area
----------	------------------	---------------------------	---------------------------------	------------

Request	Renewal and Repurposing	Add/Expand	New Facilities	Equipment	Other ¹	Total
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

1B7DC 3tr4181.0

Campus	Location	Renewal and Repurposing	Additions / Expansions	New Facilities	Equipment	Other ¹	Total				
Anchorage Campus	Anchorage	69,916.8	24.6%	356,112.9	46.8%	490.0	22.8%	4,050.0	25.1%	430,569.7	40.3%
Kenai Peninsula College	Soldotna	7,906.6		35,300.0		27.5		50.0		43,284.1	
	Kachemak Bay	875.8		750.0				265.0		4,640.8	
Kodiak College	Kodiak	2,492.4	8.6%	350.0	19.0%	8.6%	3.9%		2.0%	2,842.4	8.5%
Matanuska-Susitna College		43,853(0)	2.9(0)	204(0)	9.928	0	5(265.39(0))	20	188	681.759	0

State Appropriation Summary by Category FY06-FY15

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, FY14, FY15)
- 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, FY14, FY15)
- Life Sciences Classroom and Laboratory Facility (FY11)
- Heat & Power Plant Major Upgrade (FY15)

UAS

- Banfield Hall Dormitory Addition (FY12, FY13)

