

UAA Campus Building Interior & Systems Renewal**FY2024 Request:****\$0****Reference No:****65071****AP/AL:** Appropriation**Project Type:** Research / Studies / Planning**Category:** University**Location:** Anchorage Areawide**House District:** Anchorage Areawide (HD 9-24)**Impact House District:** Anchorage Areawide (HD 9-24)**Contact:** Michelle Rizk**Estimated Project Dates:** 07/01/2023 - 06/30/2028**Contact Phone:** (907)450-8187**Brief Summary and Statement of Need:**

Preserve general funds for savings and fiscal stability.

Funding:	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	Total
1004 Gen Fund							\$0
Total:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
<u>One-Time Startup:</u>	<u>0</u>	<u>0</u>
Totals:	0	0

Prior Funding History / Additional Information:**Project Description/Justification:**

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 heating ventilation and air conditioning (HVAC) systems in particular fall into this category.

Replacement parts for many of these systems are no longer available. Replacement of these systems would prevent systemic building failure and allow for increased energy efficiencies with better environmental control throughout the building. The older systems are very expensive to operate due to their low efficiencies. This project will replace failing piping, inadequate electrical systems, inefficient lighting, boilers, fans, and deficient variable air volume (vav) boxes and upgrade the building automation system controls.

Building System Modernization and Energy Performance Upgrades

This time sensitive project will incorporate heating, mechanical and electrical system improvements to four critical facilities, the Professional Studies Building (PSB), the Wendy Williamson Auditorium (WWA), the Social Sciences Building (SSB), and the Consortium Library to prevent critical failures, reduce maintenance costs, and provide energy savings through increased efficiency.

PSB and WWA are connected facilities and they share some of the infrastructure scheduled for replacement as part of this project. All four facilities were constructed in the early 1970s and the infrastructure, for the most part, is original and requires replacement. The electrical and mechanical systems are antiquated and are beyond their useful life.

Professional Studies Building (PSB) scope will include boiler replacement, LED lighting upgrades, electrical safety upgrades, replacement of the existing air handling unit fan with a fan wall system, and convert outdated pneumatic controls to direct digital controls (DDC).

Wendy Williamson Auditorium (WWA) scope will include LED lighting upgrades, electrical safety upgrades, conversion of pneumatic controls to DDC, and hot water pump replacements.

Social Sciences Building (SSB) scope will include LED lighting conversion, electrical safety upgrades, the addition of hydronic heating to the 2nd & 3rd floors of the building, conversion of pneumatic controls to DDC, and fin tube repairs.

Consortium Library Old Core Mechanical Upgrades: The original HVAC systems consist, for the most part, of equipment over 48 years old located within the four central building cores. The boilers, main supply/exhaust fan units, heating/cooling coils, galvanized piping and humidification systems have all reached the end of their useful life. Major component parts are no longer available for these units. Heating system piping and coils are filled with sedimentation. Control systems are no longer able to properly regulate airflow resulting in irregular temperatures and conditions within the building. The 2004

library addition contains newer HVAC systems with different control and delivery systems that have resulted in incompatibilities between the two systems and has affected the efficiencies of both systems. This first phase request addressed boilers and other mechanical systems within A & D cores of the original library, this project would continue to B & C core.