

Biological Sciences Building Infrastructure Improvements

Recommendation

It is recommended that the Board of Governors authorize the President, or his designee, to award contracts to make infrastructure improvements to the Biological Sciences Building for a project cost not to exceed \$2,500,000. Funding will be provided from the University Deferred Maintenance fund.

Background and Project Description

The Biological Sciences Building was built in 1991 and houses research and office space. The temperature and ventilation control in the building is inadequate due to the lack of controls for the majority of the heating and cooling systems. Although 20% of the building has a central building automation system, controls of the majority of laboratories and major equipment are tied to failed pneumatic control systems with no adjustability or oversight from the Facilities Building Automation Command Center. The proposed project will provide a complete digital control system for the heating, cooling and ventilation systems. The system will provide temperature adjustability, fume hood, and building ventilation balancing, and energy optimization.

The existing domestic water boiler which provides hot water to the vivarium, laboratories, and restrooms and steam boiler which provides steam for humidification and scientific equipment are well beyond their useful lives. The steam boiler is incapable of passing State pressurization inspections.

The project will replace the domestic hot water boiler with a new hot water heat exchanger and will utilize reserve capacity available in two existing boilers to ensure hot water in the Biological Sciences Building. The project will also replace the steam boiler with a smaller high-pressure steam boiler which will provide necessary building humidification for the vivarium, equipment sterilization, greenhouse and comfort control.

All contracts for this project will be awarded in accordance with University policies and procedures, and with a focus on sustainability.

Project Budget

Funding Sources		Balance of Reserve Account
Deferred Maintenance	\$2,500,000	
TOTAL Sources	\$2,500,000	
Expenditures Plan		
Design Fees	\$200,000	
Construction	\$2,015,000	
Project Management	\$85,000	
Contingency	\$200,000	
TOTAL Expenditures	\$2,500,000	

Submitted by: William R. Decatur, Vice President, Finance and Business Operations

The Biological Sciences Building



