

Project Approval
Research Commons – Thermal Plant
MU

The University of Missouri - Columbia requests project approval for the Research Commons Thermal Plant project (formerly titled the Research Commons Satellite Boiler Plant). Total project budget of \$9,000,000 is funded from MU Energy Management Capital Reserves.

The Research Commons Thermal Plant project will enhance the campus steam supply resiliency by placing a portion of the steam capacity generation in a location other than the power plant located at the north west corner of campus. The project will remove up to \$14.6 million of infrastructure cost by eliminating the need to replace a failing north steam main serving the Research Commons area (\$8.3 million) and replacing a boiler in the power plant which is at the end of its useful life (\$6.3 million).

This project will provide a 4,100 gross square feet thermal plant located in the southern portion of the Research Commons area to serve as a source of steam capacity for the campus. The boiler in this plant will provide up to 75,000 pounds per hour of reliable steam capacity for current and future growth of the campus, such as NextGen Precision Health Institute and the new Children's Hospital.

Rogers-Schmidt Engineering Company, P.C., St. Louis, Missouri is the recommended engineer for this project. Rogers-Schmidt has provided high quality engineering services for the University for many years on the district steam utility, both within the power plant and throughout campus in the buried steam distribution network. Their design team will include David Mason + Associates, Inc., St. Louis, Missouri (MBE) for architectural, civil engineering, and structural engineering.

The selection committee also interviewed Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri; and Affiliated Engineering Incorporated, Kansas City, Missouri.

The fee for basic architectural and engineering services has been determined by referencing the University of Missouri's "Architectural and Engineering Basic Services Fee Estimating Guidelines." The project is considered a Type VI (Engineering), and the calculated basic services fee is \$479,000 based upon 7.15% of the estimated \$6,700,000 construction cost.

Construction is expected to be completed in July 2023.

February 4, 2021

No. 3

Recommended Action - Project Approval, Research Commons – Thermal Plant, MU

It was recommended by President Mun Y. Choi, recommended by the Finance Committee, moved by Curator _____ and seconded by Curator _____, that the following action be approved:

the project approval for the Research Commons – Thermal Plant, MU

Funding of the project budget is from:

MU Energy Management Capital Reserves	<u>\$9,000,000</u>
Total	\$9,000,000

Roll call vote of the Committee: YES NO

Curator Hoberock
Curator Steelman
Curator Wenneker
Curator Williams

The motion _____.

Roll call vote: YES NO

Curator Brncic
Curator Chatman
Curator Graham
Curator Hoberock
Curator Layman
Curator Snowden
Curator Steelman
Curator Wenneker
Curator Williams

The motion _____.

February 4, 2021