**Illinois State**

**University**

**Board of**

**Trustees**

**Resolution No. 2015.10/30**

**Southeast Chilled Water Plant Expansion**

**Resolution**

Whereas, the Southeast Chilled Water Plant was constructed in 2007 and produces chilled water for Watterson Towers, Watterson Dining Commons and Stevenson Hall, and

Whereas, *Master Plan 2010-2030* calls for enhancements in the University’s utilities infrastructure, including the development of connections between district chiller groups, and

Whereas, plans to interconnect the University’s chilled water plants serving facilities in the east area of the campus and to construct a 12,000 square foot addition to Watterson Dining Commons will impact the capacity of the Southeast Chilled Water Plant, and

Whereas, installation of an additional 800 tons of cooling capacity to the Southeast Chilled Water Plant is needed to accommodate interconnection of district chiller groups serving the east side of campus and the addition to Waterson Commons:

Therefore, be it resolved that the Board of Trustees authorizes a capital project for installation of an additional chiller with a 800 ton output in the Southeast Chilled Water Plant, establish budgets, appoint architects and engineers, develop required designs and construction documents, advertise, receive and then award public bids and undertake construction.

Therefore, be it further resolved that the Board of Trustees authorizes $915,000 for this project.

Board Action on: Postpone:

Motion by: Amend:

Second by: Disapprove:

Vote: Yeas: Nays: Approve:

ATTEST: Board Action, October 23, 2015

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**Board of Trustees**

**Illinois State University**

**Supplemental Information for Southeast Chilled Water Plant Expansion**

This item requests Board of Trustees approval for a $915,000 project for the installation of an additional chiller within the Southeast Chilled Water Plant located south of Watterson Towers on Beaufort Street.

**Background.** In early 2007, the Southeast Chilled Water Plant was constructed with joint funding from the Illinois Capital Development Board and the University (Board of Trustees item 2003.02/03). The plant was designed to serve the immediate needs of Watterson Towers, Watterson Dining Commons and Stevenson Hall. The plant’s chilled water production capacity at the time of construction was 1200 tons. However, since planning indicated a future need for more cooling capacity, the building was designed with space to accommodate an additional chiller.

There are two projects being considered by the University that will impact the Southeast Chilled Water Plant operation and capacity. The first and immediate project involves construction of a 12,000 square foot expansion to the Watterson Dining Commons to serve as a complete bakery and a cook/chill food preparation system for the campus (Board of Trustees item 2015.10/29). The second project involves planning to interconnect the Southeast Chilled Water Plant, the Northeast Chilled Water Plant, the South Campus Power Plant, and the Central Refrigeration Plant. Connecting these plants and distributing their loads will provide a more reliable and efficient cooling solution for the campus. These efforts are dependent upon additional chiller capacity in the Southeast Chilled Water Plant.

**Project Scope**. This project involves the installation of an additional chiller with an 800 ton output in the Southeast Chilled Water Plant. The additional chiller will provide the necessary capacity for the addition to Waterson Dining Commons and the interconnection of chilled water groups.

The project advances recommendation #53 in *Master Plan 2010-2030* calling for enhancements in the University’s utilities infrastructure, including the development of connections between district chiller groups.

# **Resource Requirements**

Construction $ 810,000

Design Fees 22,000

Contingency 83,000

Total Project Cost $ 915,000

Source of Funding: $717,443 Housing and Campus Dining Reserves

$197,557 General Revenue Operating