

Office of the Chief Financial Officer and Treasurer

July 8, 2021

The Honorable Eric J. Holcomb Governor of the State of Indiana Statehouse Indianapolis, IN 46204

Dear Governor Holcomb:

At its meeting on July 7, 2021, the Purdue University Board of Trustees approved the planning, financing, construction and award of construction contracts for the Wade Utility Plant Chiller 7 Replacement and System Improvements project.

This project will replace steam chiller 7, which is at the end of its expected service life, with a higher capacity electric chiller at the Wade Utility Plant on the West Lafayette campus. The project will also modify the existing mechanical and plumbing systems in the Northwest Chiller Plant to increase capacity.

Steam chiller 7 is more than 30 years old and the oldest chiller operating at the Wade Utility Plant. This project will allow the University to more reliably meet campus chilled water demand. This project was near-term priority project five on the 2021-2031 Ten Year Capital Project Plan.

The estimated total project cost is \$12,000,000, funded by Operating Funds.

Subject to review by the Commission for Higher Education and recommendation by the State Budget Committee and the Budget Agency, we request your approval to proceed with this project. Attached are the completed forms that the Commission has prescribed for its review of such projects. We will be happy to answer any questions you or your staff may have or to provide any additional information that is needed.

Sincerely,

James S. Almond

Senior Vice President and Assistant Treasurer

Attachments

c: Alexa Deaton, Chief Financial Officer, Indiana Commission for Higher Education Jasmine Williams, Director of Finance, Indiana Commission for Higher Education Zachary Jackson, Director, Indiana State Budget Agency Andy Cummings, Assistant Director, Indiana State Budget Kathleen Thomason, Comptroller, Purdue University Anne Hazlett, Senior Director, Government Relations, Purdue University

PROJECT COST SUMMARY

Wade Utility Plant Chiller 7 Replacement and System Improvements

Institution: Campus: Previously approved by General Assembly: Part of the Institution's Long-term Capital Plan: Project Size: N/A M/A ASF (2) Net change in overall campus space: N/A Purdue University No No No No No No No SF	Budget Agency Project No.: Institutional Priority: Previously recommended by CHE: N/A ASF/GSF N/A ASF
	Cost per ASF/GSF: N/A ASF Type Operating Funds
Estimated annual debt payment (6): Are all funds for the project secured: Project Funding: This project is funded by Operating Funds, and all the funds are secured.	ed.
Project Cost Justification Since the project is utilities based, there is not an ASF or GSF association the comparable project section.	ed with the work. This project scope and cost are similar to the project listed
Estimated annual change in cost of building operations based on the Estimated annual repair and rehabilitation investment (5):	* (68,000) \$ 180,000

- (1) Gross Square Feet (GSF)- Sum of all area within the exterior envelope of the structure.
- (2) Assignable Square Feet (ASF)- Amount of space that can be used by people or programs within the interior walls of a structure. Assignable square feet is the sum of the 10 major assignable space use categories: classrooms, laboratories, offices, study facilities, special use facilities, general use facilities, support facilities, health care facilities, residential facilities and unclassified facilities. For information on assignable space use categories, see Space-Room Codes tab.
- (3) Projects should include all costs associated with the project (structure, A&E, infrastructure, consulting, FF&E, etc.)
- (4) Be consistent in the naming of funds to be used for projects. If bonding, note Bonding Authority Year (1965, 1929, 1927, etc.)
- (5) Estimate the amount of funding the institution would need to set aside annually to address R&R needs for the project. CHE suggests 1.5% of total construction cost
- (6) If issuing debt, determine annual payment based on 20 years at 4.75% interest rate
- If project is a lease-purchase or lease, adjust accordingly. Note the total cost of the lease in the project cost, and annual payments in project description

PROJECT DETAILED DESCRIPTION - ADDITIONAL INFORMATION

Wade Utility Plant Chiller 7 Replacement and System Improvements

Institution:	<u>Purdue University</u>	Budget Agency Project No.:	<u>B-1-22-2-01</u>
Campus:	West Lafayette	Institutional Priority: N/A	
Description of	Project		
	Il replace the University's existing 3,000 ton steam chi	ller 7 with a higher capacity 5,000 ton electric chiller	at the Wade
	the West Lafayette campus. The chiller capacity will		
	project is the purchase and installation of the electric		
structures and c	connections. The project also will modify the mechanic	cal and plumbing systems in the Northwest Chiller Pl	ant to increase
capacity by 1,50	00 tons.		
Need and Puri	oose of the Program		
	was installed in 1988 and is the oldest chiller at the W	Vade Utility Plant At more than 30 years old it has re	ached the end of
	vice life and is running inefficiently as a result. Additi		
	oduced in the future. The new electric chiller, chiller 1		
0 1	y friendly refrigerant.	,, while of mere energy enterene and also a mere reads	ij urullusis,
The equipment	replacement and the increase in capacity at both the W	Vade Utility Plant and the Northwest Chiller Plant wil	ll allow the
	ore reliably meet current West Lafayette chilled water		
ř			
This project wa	s near-term priority project #5 on Purdue's 2021-2031	Ten Year Capital Project Plan.	
Space Utilizati	<u>on</u>		
Since this is a v	itilities project, there will be no significant space impa	ct.	
Comparable P	roiects		
	hiller No. 6 Replacement and Temporary Chilled Water	er Capacity Infrastructure (2013) included the remova	al and
	an aging chiller with two new electric-driven chillers		
	West Lafayette campus.	1	
• \$10,000,000	7		
Background M	<u> Iaterials</u>		

CAPITAL PROJECT REQUEST FORM INDIANA PUBLIC POSTSECONDARY EDUCATION

INSTITUTION CAMPUS SPACE DETAILS FOR Wade Utility Plant Chiller 7 Replacement and System Improvements

	Current Campus Totals				Capital F		
(INSERT PROJECT TITLE AND SBA No.)	Current Space in Use	Space Under Construction (1)	Space Planned and Funded (1)	Subtotal Current and Future Space	Space to be Terminated (1)	New Space in Capital Request (2)	Net Future Space
A. OVERALL SPACE IN ASF	111 050	(1)	unu 1 unuvu (1)	~ pucc	101111111111111111111111111111111111111	riequest (2)	Space
Classroom (110 & 115) Class Lab (210,215,220,225,230,235)	337,078 756,939	- 82,254	- 11,900	337,078 851,093			337,078 851,093
Non-class Lab (250 & 255)	1,632,439	(17,963)	42,679	1,657,155			1,657,155
Office Facilities (300)	2,390,722	29,971	32,181	2,452,874			2,452,874
Study Facilities (400)	351,400	7,003	-	358,403			358,403
Special Use Facilities (500)	1,226,926	-	-	1,226,926			1,226,926
General Use Facilities (600)	990,326	2,808	12,685	1,005,819			1,005,819
Support Facilities (700)	2,844,705	121	(57)	2,844,769			2,844,769
Health Care Facilities (800)	113,929	89,901	-	203,830			203,830
Resident Facilities (900)	2,701,558	-	-	2,701,558			2,701,558
Unclassified (000)	30,507	-	-	30,507			30,507
B. OTHER FACILITIES (Please list major categories)							
TOTAL SPACE	13,376,528	194,095	99,388	13,670,011			13,670,011

Notes:

(1) Identify in a footnote the specific facilities that are included in the data in these columns. Do not include pending approval, non-submitted projects or non-funded projects

Space under construction includes:

- Vet Med Teaching Hospital

⁻ Space/Room codes based on Postsecondary Ed Facilities Inventory and Classification Manual (2006)

CAPITAL PROJECT COST DETAILS

Wade Utility Plant Chiller 7 Replacement and System Improvements

Institution: Campus:	Purdue University West Lafayette	Budget Agency Project No.: Institutional Priority: N/A
<u>ANTICIPAT</u>	ED CONSTRUCTION SCHEDULE Month Bid Date Start Construction Occupancy (End Date) April	Year 2022 2022 2023
<u>ESTIMATEI</u>	Planning Costs a. Engineering b. Architectural c. Consulting	Estimated Escalation Cost Basis (1) Factors (2) Project Cost \$ 1,000,000
	Construction a. Structure b. Mechanical (HVAC, plumbing, etc.) c. Electrical	\$ 285,000 \$ 1,777,000 \$ 2,415,000 \$ -
	Movable Equipment Fixed Equipment Site Development/Land Acquisition Other (PM fees, printing, travel, testing) TOTAL ESTIMATED PROJECT COST	\$ 4,832,000 \$ 4,832,000 \$ 1,516,000 \$ 12,000,000 \$ - \$ 12,000,000

⁽¹⁾ Cost Basis is based on current cost prevailing as of: (INSERT MONTH AND YEAR)

⁽²⁾ Explain in the Description of Project Section of the "Cap Proj Details" schedule the reasoning for estimated escalation factors

CAPITAL PROJECT OPERATING COST DETAILS

Wade Utility Plant Chiller 7 Replacement and System Improvements

Institution: Campus:	Purdue University West Lafayette	Budget Agency Project No.: B-1-22- Institutional Priority: N/A					<u>B-1-22-2-01</u>
ANNHAL OD	EDATING COST/SAVINGS (1)	GSF	OF	AREA AF	FECTED BY	Y PROJECT	N/A
ANNUAL OP	ERATING COST/SAVINGS (1)	Cost per GSF	Total Operating Personal Cost Services		Supplies and Expenses		
	 Operations Maintenance Fuel Utilities 		\$ \$ \$	(25,000)			
TOTAL E	5. Other ESTIMATED OPERATIONAL COST/SAVINGS	N/A	\$	(43,000) (68,000)	N/A	N/A	

Description of any unusual factors affecting operating and maintenance costs/savings.

This project will result in operating savings due to the chiller's increased efficiency and the reduction in required maintenance.

(1) Based on figures from "Individual Cap Proj Desc" schedule