

Office of the Chief Financial Officer and Treasurer

April 14, 2023

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

Dear Governor Holcomb:

At its meeting on April 14, 2023, the Purdue University Board of Trustees approved the planning, financing, construction and award of construction contracts for the Chilled Water Capacity Enhancement Projects on the West Lafayette campus.

This project will install a new cooling tower and supporting equipment at the Wade Utility Plant and construct an approximately 1,600 GSF auxiliary controls building. A new chilled water line will be installed from the Wade Utility Plant to the central academic campus to allow for full chilled water capacity to reach buildings currently underserved during peak times. Replacement of chiller controls and other chiller upgrades are also included to increase the reliability and efficiency of chilled water production.

This project will increase chilled water capacity, allowing the production and distribution of chilled water to keep pace with campus growth and strategic research initiatives. Reliable production and distribution of chilled water is essential to providing stable temperature and humidity controls in campus facilities, which contribute to the longevity and health of buildings.

The estimated total project cost is \$65,500,000 and is funded by Operating Funds – Reserves.

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,

CLCNS

Christopher A. Ruhl Chief Financial Officer and Treasurer

Attachments

c: Seth Hinshaw, Chief Financial Officer, Indiana Commission for Higher Education Zachary Jackson, Director, Indiana State Budget Agency Jasmine Williams, Assistant Director, Indiana State Budget Kathleen Thomason, Comptroller, Purdue University Anne Hazlett, Senior Director, Government Relations, Purdue University

PROJECT COST SUMMARY

Chilled Water Capacity Enhancement Projects

	<u>Purdue</u> <u>West Lafay</u> roved by General Assen titution's Long-term Ca	ıbly: <u>No</u>		<u>Budget Agency Project No.:</u> <u>Institutional Priority:</u> <u>Previously recommended by CHE</u>	<u>):</u>	<u>N/A</u>	<u>B-1-23-1-16</u> <u>No</u>
<u>Project Size:</u> <u>Net change in c</u>	1,625 GSF (1)	0 ASF (2) 1,625 GSF	0.00 0	ASF/GSF ASF			
<u>Total cost of th</u> <u>Total cost of th</u> <u>Funding Sourc</u>		\$ 65,500,000 \$ - Amount \$ 65,500,000	Cost per ASF/	GSF: Type Operating Funds - Reserves	N/A N/A	GSF ASF	
	ual debt payment (6): or the project secured: ng:	\$0 Yes					
The project is b	eing funded by Operating	Funds - Reserves, and all p	roject funds are s	ecured.			
Project Cost J Since the project Details section.		, the cost/square foot indica	tors are not a goo	d measure. This project's scope and c	ost are described	more in the Ca	pital Project
	ual change in cost of bui ual repair and rehabilita	lding operations based on ation investment (5):	<u>the project:</u> \$ 982,500	\$ <u>299</u> ,	708		

(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, 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

Chilled Water Capacity Enhancement Projects

Lampus: West Lafavettg Institutional Priority: NA Description of Project This project will install a new cooling tower and supporting equipment at the Wade Utility Plant and construct an approximately 1,600 GSF willing on the West Lafayette campus. A new chilled water line will be installed from Wade Utility Plant to the central cadenic campus to allow for full childed water capacity to reach buildings currently underserved during peak times. Seven smaller projects in encluded in this overarching project to increase the reliability and efficiency of chilled water production, including the replacement of hiller controls and other chiller upgrades. Vecta and Purpose of the Program This project will increase chilled water capacity by 3,500 tons, allowing production and distribution of chilled water to keep pace with anymaps growth and strategic research initiatives. From Fall 2010 to Fall 2022, there has been nearby a 30% increase in nearbuse chilled water peak demand strategic research initiatives. From Fall 2010 to Fall 2022, there has been nearbuse that of the meet peak demand value on the water peak demand strategic research initiatives growthe increases. In euroren childer water system cannot meet peak demand value on the water biles reliable than permanent or increase. The urrent child water system cannot meet peak demand without the use of rental equipment which offers a limited capacity increase, and demand is expected to surpass that in the next few years. Earliel equipment is less reliable than permanent surger systems, and demand is expected to surpass that in the next few years. Statul equipment is less reliable than permanent systems and so the valuable each year. The use of rental ecoling tower at the Wade Utility Plant will be eliminated following completion of this project. Reliable pro					
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Background Materials	Background Ma	terials			

CAPITAL PROJECT REQUEST FORM INDIANA PUBLIC POSTSECONDARY EDUCATION INSTITUTION CAMPUS SPACE DETAILS FOR Chilled Water Capacity Enhancement Projects

	(Current Campus Tota	ıls		Capital I	Request	
(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							
Classroom (110 & 115)	336,770	-	(2,758)	334,012			334,012
Class Lab (210,215,220,225,230,235)	821,564	4,425	(17,763)	808,226			808,226
Non-class Lab (250 & 255)	1,689,952	28,557	(4,970)	1,713,539			1,713,539
Office Facilities (300)	2,327,144	(3,312)	(47,907)	2,275,925			2,275,925
Study Facilities (400)	397,274	8,166	48,926	454,366			454,366
Special Use Facilities (500)	1,206,038	8,796	3,603	1,218,437			1,218,437
General Use Facilities (600)	1,018,077	6,056	(31,581)	992,552			992,552
Support Facilities (700)	2,934,774	(726)	(2,505)	2,931,543			2,931,543
Health Care Facilities (800)	217,205		- 1	217,205			217,205
Resident Facilities (900)	2,427,355	-	-	2,427,355			2,427,355
Unclassified (000)	115,749	-	-	115,749			115,749
B. OTHER FACILITIES							
(Please list major categories)							
TOTAL SPACE	13,491,902	51,962	(54,955)	13,488,909	-	-	13,488,909

Notes:

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

(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:

- Schleman/Stewart Renovation

- Whistler Mechanical Project

- Ross-Ade Stadium Renovation

- Zucrow High Speed Propulsion Lab

- Mackey Locker Rooms Renovation

Space planned and funded includes:

- Life Sciences Phenotyping Greenhouse Building

- Northwest Chiller Plant System Improvements

- Vawter Hall Electrical Enhancements and Replacement

- Brown Family Hall Renovation

- PMU 2nd Floor Hospitality Renovation

- Libraries Study Space Renovation

- University Hall and Related Renovations

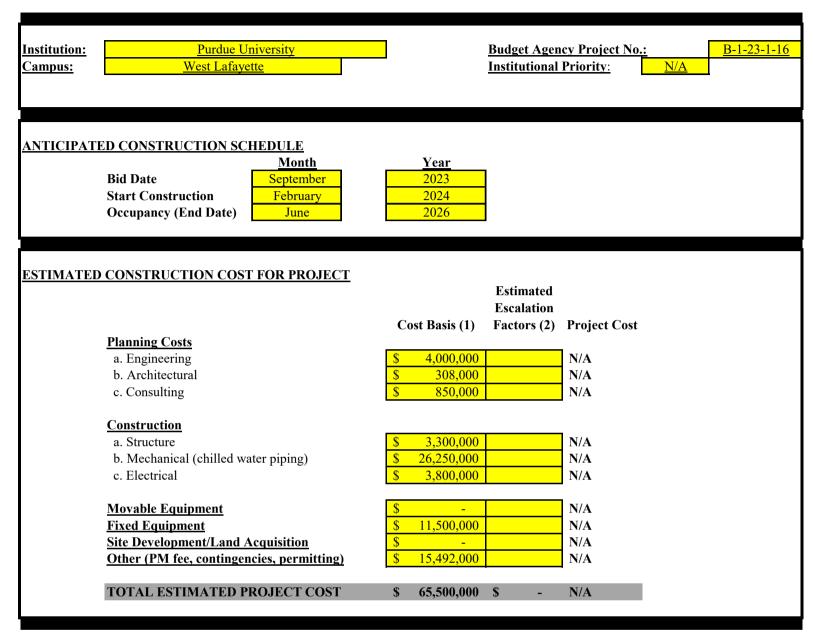
- Mechanical Engineering Building Renovation

- Birck Nanotechnology Center Clean Room Modernization and Related Renovations

(2) This project has no impact to assignable space.

CAPITAL PROJECT COST DETAILS

Chilled Water Capacity Enhancement Projects



(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

Chilled Water Capacity Enhancement Projects

		1								
Institution:	Purdue University				dget Agency Project No.:					<u>B-1-23-1-16</u>
Campus: <u>West Lafayette</u>				Ins	<u>titutional Priority:</u>				<u>N/A</u>	
					GSF OF AREA	ΔF	FECTED	BV	PROJECT	1,625
ANNUAL OP	ERATING COST/SAVINGS (1)				UST OF AREA	AI	FECTED		INUJECI	1,025
		(Cost per			I	Personal	Su	pplies and	
			GSF		Total Operating Cost		Services		penses	
					I B				•	
	1. Operations	\$	251.08	\$	408,000	\$	-	\$	408,000	
	2. Maintenance	\$	36.92	\$	60,000	\$	-	\$	60,000	
	3. Fuel	\$	-	\$	-	\$	-	\$	-	
	4. Utilities	\$	266.30	\$	432,737	\$	-	\$	432,737	
	5. Other	\$	(369.86)	\$	(601,029)	\$	-	\$	(601,029)	
TOTAL E	STIMATED OPERATIONAL COST/SAVINGS	\$	184.44	\$	299,708	\$	-	\$	299,708	
Description of	any unusual factors affecting operating and main	one	naa aastali	601	ingo					
	vings reflected above are the total operating costs asso					ty I	Plant This	rent	al equipment	will be
					<u> </u>	-				
eliminated with the completion of this project. The savings include rental fees, start-up and winterization of the equipment, chemicals and electricity to run the rentals. The new cooling tower capacity is larger than the rental capacity that is being replaced, leading to higher annual operating costs.										
to here been cooling to not support, is furger than the rental support, that is being replaced, fourning to ingher annual operating costs.										

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