



August 2, 2017

TO: Members of the Board of Trustees

FROM: Scott A. Jordan   
Executive Vice President for Administration and Chief Financial Officer

Jeremy Teitelbaum   
Interim Provost and Executive Vice President for Academic Affairs

RE: Project Budget for CUP Equipment Replacement and Pumping Project  
(Final: \$23,000,000)

RECOMMENDATION:

That the Board of Trustees approve the Final Budget of \$23,000,000 for the CUP Equipment Replacement and Pumping Project for Construction. The Administration recommends that the Board of Trustees adopt the Resolution below.

RESOLUTION:

“Be it resolved that the Board of Trustees approve the use of \$9,500,000 in UCONN 2000 bond funds and \$13,500,000 in University Funds for CUP Equipment Replacement and Pumping Project.”

BACKGROUND:

The University produces and distributes chilled water for cooling from the Central Utility Plant (CUP) and the Cogen plant, consisting of two gas fired chillers, two electric centrifugal chillers, and four evaporative cooling towers located in the CUP, and four steam turbine chillers and nine evaporative cooling towers located in the Cogen facility.

A study was commissioned to review reliability, production, and distribution of chilled water to ensure that existing and future needs could be met. The study revealed that the full capacity of the plant could not be effectively distributed to campus with the current piping configuration. Additionally, the study showed that immediate replacement of two of the four CUP chillers and the CUP cooling towers was also necessary as they have reached the end of their useful life.

This project is for the design and replacement of the two chillers, four cooling towers, and the piping modifications necessary to improve distribution.

The CUP Equipment Replacement and Pumping Project is currently in the Design Phase. Design began in February 2017 and construction documents will be completed in July 2017. The project will bid in Fall 2017 and Construction is anticipated to begin in January 2018 and to be complete in May 2019.

The Final Budget is based on a professional cost estimator who prepared an estimate of probable cost based on the Design Development documents.

The Final Budget is attached for your information.

Attachment

## CAPITAL PROJECT BUDGET REPORTING FORM

**TYPE BUDGET: FINAL**

**PROJECT NAME: CUP EQUIPMENT REPLACEMENT AND PUMPING IMPROVEMENTS**

<u>BUDGETED EXPENDITURES</u>	<u>APPROVED PLANNING 6/27/2016</u>	<u>APPROVED DESIGN 10/26/2016</u>	<u>PROPOSED FINAL 8/2/2017</u>
	<b>PRC</b>		
CONSTRUCTION	\$ -	\$ -	\$ 17,000,000
DESIGN SERVICES	48,000	921,000	1,400,000
TELECOMMUNICATIONS	-	-	-
FURNITURE, FIXTURES AND EQUIPMENT	-	-	-
CONSTRUCTION ADMINISTRATION	-	68,000	400,000
OTHER AE SERVICES (including Project Management)	5,000	84,000	875,000
ART	-	-	-
RELOCATION	-	-	-
ENVIRONMENTAL	-	92,000	25,000
INSURANCE AND LEGAL	-	1,000	-
MISCELLANEOUS	-	4,000	100,000
OTHER SOFT COSTS	-	-	-
<b>SUBTOTAL</b>	<b>\$ 53,000</b>	<b>\$ 1,170,000</b>	<b>\$ 19,800,000</b>
PROJECT CONTINGENCY	7,000	130,000	3,200,000
<b>TOTAL BUDGETED EXPENDITURES</b>	<b>\$ 60,000</b>	<b>\$ 1,300,000</b>	<b>\$ 23,000,000</b>
<b><u>SOURCE(S) OF FUNDING</u></b>			
UCONN 2000 BOND FUNDS	\$ 60,000	\$ 1,300,000	\$ 9,500,000
UNIVERSITY FUNDS*	-	-	13,500,000
<b>TOTAL BUDGETED FUNDING</b>	<b>\$ 60,000</b>	<b>\$ 1,300,000</b>	<b>\$ 23,000,000</b>

\*At this time, the University plans to incur expenditures for this project against University Funds. The University may reimburse itself at a later date when UCONN 2000 bonds are authorized and issued.

CUP EQUIPMENT REPLACEMENT AND PUMPING PROJECT  
Project Budget (FINAL)  
August 2, 2017



Central Utility Plant and project cooling towers at right



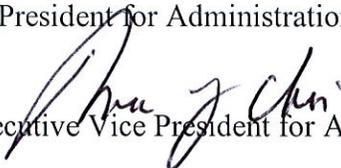
Existing Chiller 3 to be replaced at left



October 26, 2016

TO: Members of the Board of Trustees

FROM: Scott A. Jordan   
Executive Vice President for Administration and Chief Financial Officer

Mun Y. Choi   
Provost and Executive Vice President for Academic Affairs

RE: Project Budget for CUP Equipment Replacement and Pumping Project  
(Design: \$1,300,000)

RECOMMENDATION:

That the Board of Trustees approve the Design Budget of \$1,300,000 for the CUP Equipment Replacement and Pumping Project for Design. The Administration recommends that the Board of Trustees adopt the resolution below.

RESOLUTION:

“Be it resolved that the Board of Trustees approve the use of \$1,300,000 in UCONN 2000 GO bonds for the design of the CUP Equipment Replacement and Pumping Project.”

BACKGROUND:

The University produces and distributes chilled water for cooling from the Central Utility Plant (CUP) and the Cogen plant consisting of two gas fired chillers, two electric centrifugal chillers, and four evaporative cooling towers located in the CUP, and four steam turbine chillers and nine evaporative cooling towers located in the Cogen facility. A study was commissioned to review reliability, production, and distribution of chilled water to ensure that existing and future needs could be met. The study revealed that the full capacity of the plant could not be effectively distributed to campus with the current piping configuration. Additionally, the study showed that immediate replacement of two of the four CUP chillers and the CUP cooling towers was also necessary as they have reached the end of their useful life.

This project is for the design and replacement of the two chillers, four cooling towers, and the piping modifications necessary to improve distribution. The project resolution is for design only at this time.

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The CUP Equipment Replacement and Pumping Project is currently in the Planning Phase. Planning began in Summer 2016 and the project will bid in Spring 2017. Construction is anticipated to begin in Fall 2017 and to be complete in Spring 2019.

The Design Phase Budget is based on order of magnitude estimates of similar facilities.

The anticipated total project budget will be in the range of \$22,500,000 to \$30,000,000.

The Design Phase Budget is attached for your information.

Attachment

## CAPITAL PROJECT BUDGET REPORTING FORM

**TYPE BUDGET: DESIGN**

**PROJECT NAME: CUP EQUIPMENT REPLACEMENT AND PUMPING PROJECT**

<u>BUDGETED EXPENDITURES</u>	<u>APPROVED PLANNING 6/27/2016</u>	<u>PROPOSED DESIGN 10/26/2016</u>
	<u>PRC</u>	
CONSTRUCTION	\$ -	\$ -
DESIGN SERVICES	48,000	921,000
TELECOMMUNICATIONS	-	-
FURNITURE, FIXTURES AND EQUIPMENT	-	-
CONSTRUCTION ADMINISTRATION	-	68,000
OTHER AE SERVICES (including Project Management)	5,000	84,000
ART	-	-
RELOCATION	-	-
ENVIRONMENTAL	-	92,000
INSURANCE AND LEGAL	-	1,000
MISCELLANEOUS	-	4,000
OTHER SOFT COSTS	-	-
<b>SUBTOTAL</b>	<b>\$ 53,000</b>	<b>\$ 1,170,000</b>
PROJECT CONTINGENCY	7,000	130,000
<b>TOTAL BUDGETED EXPENDITURES</b>	<b>\$ 60,000</b>	<b>\$ 1,300,000</b>
<b><u>SOURCE(S) OF FUNDING</u></b>		
UCONN 2000 GO BONDS	\$ 60,000	\$ 1,300,000
<b>TOTAL BUDGETED FUNDING</b>	<b>\$ 60,000</b>	<b>\$ 1,300,000</b>