UCONN
UNIVERSITY OF CONNECTICUT

December 11, 2013

TO: Members of the Board of Trustees

FROM: Richard D. Gray
Executive Vice President for Administration and Chief Financial Officer

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

RE: Project Budget for Gant Building Renovations – Data Center Stabilization (Final: $4,000,000)

RECOMMENDATION:

That the Board of Trustees approve the Final Budget in the amount of $4,000,000 for the planning, design and construction of the Data Center Stabilization Rescue Project at the Edward V. Gant Science Complex.

BACKGROUND:

The University has commissioned a design consultant to prepare a master and implementation plan for the Data Center Stabilization Rescue Project.

The design consultant met with University program managers to determine the most effective and efficient means to ensure the 24/7 operation of the Data Center. A master plan has been completed that proposes a significant increase in the reliability of the current Data Center.

The general scope of the master plan includes the following system upgrades:

- Two additional power distribution circuits.
- Redundant Uninterruptible Power Supply (UPS) to power infrastructure from independent sources.
- Overhead power distribution to provide a flexible power supply system for the ever-changing process environment.
- Removal of power distribution wiring under the raised floor.
- Complete air conditioning system upgrade to allow further expansion.

Office of the Executive Vice President for
Administration and Chief Financial Officer
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This project will provide the needed infrastructure to ensure a stable Data Center, allow for some expansion due to changing needs, and permit the University to explore long term options.

The University commissioned a design team to complete contract documents for the project. The attached Final Budget is based on the design team's estimated construction costs. The project is out to bid and the proposed budget will be amended if necessary by the results of competitive bids.

The Final Budget is attached for your consideration and approval.

Attachment

CAPITAL PROJECT BUDGET REPORTING FORM

TYPE BUDGET: FINAL

PROJECT NAME: GANT BUILDING RENOVATIONS - DATA CENTER STABILIZATION

BUDGETED EXPENDITURES	APPROVED PLANNING 11/14/2012	APPROVED DESIGN 8/7/2013	PROPOSED FINAL 12/11/2013
CONSTRUCTION	$ 2,750,000	$ 2,750,000	$ 2,750,000
DESIGN SERVICES	522,497	522,497	522,497
TELECOMMUNICATIONS	-	-	-
FURNITURE, FIXTURES AND EQUIPMENT	300,000	300,000	280,000
CONSTRUCTION ADMINISTRATION	-	-	10,000
OTHER AE SERVICES (including Project Management)	-	-	10,000
ART	-	-	-
RELOCATION	-	-	-
ENVIRONMENTAL	-	-	-
INSURANCE AND LEGAL	-	-	-
MISCELLANEOUS	15,003	15,003	15,003
OTHER SOFT COSTS	-	-	-
SUBTOTAL	$ 3,587,500	$ 3,587,500	$ 3,587,500
PROJECT CONTINGENCY	412,500	412,500	412,500
TOTAL BUDGETED EXPENDITURES	$ 4,000,000	$ 4,000,000	$ 4,000,000
SOURCE(S) OF FUNDING			
UCONN 2000 PHASE III	$ 4,000,000	$ 4,000,000	$ 4,000,000
TOTAL BUDGETED FUNDING	$ 4,000,000	$ 4,000,000	$ 4,000,000

12.11.13
901755

GANT BUILDING RENOVATIONS – DATA CENTER STABILIZATION

Project Budget (FINAL)

12/11/13

EDWARD V. GANT BUILDING

DATA CENTER – GROUND FLOOR LOCATION

ORIGINAL POWER DISTRIBUTION

SINGLE UNINTERRUPTABLE POWER SUPPLY

OUTDATED MONITORING SYSTEM

SUPPLEMENTAL COOLING

University of Connecticut
Office of the Executive Vice President
for Administration and Chief Financial Officer

August 7, 2013

TO: Members of the Board of Trustees

FROM: Richard D. Gray
Executive Vice President for Administration and Chief Financial Officer

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

RE: Project Budget for Gant Building Renovations – Data Center Stabilization (Design: $4,000,000)

RECOMMENDATION:

That the Board of Trustees approve the Design Budget in the amount of $4,000,000 for the planning, design and construction of the Data Center Rescue Project at the Edward V. Gant Science Complex.

BACKGROUND:

The University has commissioned a design consultant to prepare a master and implementation plan for the Data Center Stabilization Rescue Project.

The design consultant has met with University program managers to determine the most effective and efficient means to ensure the 24/7 operation of the Data Center. They completed a master plan that proposes a significant increase in the reliability of the current Data Center.

The general scope of the master plan includes the following system upgrades:

- Two additional power distribution circuits.
- Redundant Uninterruptible Power Supply (UPS) to power infrastructure from independent sources.
- Overhead power distribution to provide a flexible power supply system for the ever-changing process environment.
- Removal of power distribution wiring under the raised floor.
- Complete air conditioning system upgrade to allow further expansion.

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The completion of this project will provide the needed infrastructure to ensure a stable Data Center; allow for some expansion due to changing needs, and allow the University to explore long term options.

The University has commissioned a design team to prepare contract documents for the project. The Project Budget includes a "construction" line item that was estimated by the design architect. This is based upon design documents, not competitive bidding and represents the best effort of the design team to establish a contract value at this phase of the project.

The Design Budget is attached for your consideration and approval.

Attachment

CAPITAL PROJECT BUDGET REPORTING FORM

TYPE BUDGET: DESIGN

PROJECT NAME: GANT BUILDING RENOVATIONS - DATA CENTER STABILIZATION

BUDGETED EXPENDITURES	APPROVED PLANNING 11/14/2012	PROPOSED DESIGN 8/7/2013
CONSTRUCTION	$ 2,750,000	$ 2,750,000
DESIGN SERVICES	522,497	522,497
TELECOMMUNICATIONS	-	-
FURNITURE, FIXTURES AND EQUIPMENT	300,000	300,000
CONSTRUCTION ADMINISTRATION	-	-
OTHER AE SERVICES (including Project Management)	-	-
ART	-	-
RELOCATION	-	-
ENVIRONMENTAL	-	-
INSURANCE AND LEGAL	-	-
MISCELLANEOUS	15,003	15,003
OTHER SOFT COSTS	-	-
SUBTOTAL	$ 3,587,500	$ 3,587,500
PROJECT CONTINGENCY	412,500	412,500
TOTAL BUDGETED EXPENDITURES	$ 4,000,000	$ 4,000,000
SOURCE(S) OF FUNDING		
UCONN 2000 PHASE III	$ 4,000,000	$ 4,000,000
TOTAL BUDGETED FUNDING	$ 4,000,000	$ 4,000,000

BOT 8.7.13
901755

GANT BUILDING RENOVATIONS – DATA CENTER STABILIZATION

Project Budget (Design)

08/07/13

EDWARD V. GANT BUILDING

DATA CENTER – GROUND FLOOR LOCATION

ORIGINAL POWER DISTRIBUTION

SINGLE UNINTERRUPTABLE POWER SUPPLY

OUTDATED MONITORING SYSTEM

SUPPLEMENTAL COOLING

University of Connecticut
Office of the Executive Vice President
for Administration and Chief Financial Officer

November 14, 2012

TO: Members of the Board of Trustees

FROM: Richard D. Gray
Executive Vice President

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

RE: Project Budget for Gant Building Renovations – Data Center Stabilization
(Planning: $4,000,000)

RECOMMENDATION:

That the Board of Trustees approve the Planning Budget in the amount of $4,000,000 for the planning, design and construction of a Data Center Rescue Project at the Edward V. Gant Science Complex.

BACKGROUND:

UConn's centralized Data Center, located within the Gant Science Complex, was constructed in 1969. Modern data centers are designed to be capable of sustained 24/7 operation. These centers are heavily dependent of robust mechanical and electrical infrastructure that anticipates failure of key pieces of equipment. Conversely, the primary mechanical and electrical components at the UCONN data center vary in age from 10 to 40 years old. The design lacks the redundant systems that characterize the modern data center. As a result, there are multiple single mechanical and electrical elements that can fail and cause the entire operating environment to crash. UConn must address these critical aging / single point of failure issue or at some point in the very near future experience a system failure that will result in widespread service disruptions to core business processes. A critical failure may cause an extended outage of more than one week.

The general scope of this project includes the following system upgrades.

- Two additional power distribution circuits
- Redundant Uninterruptable Power Supply (UPS) – to power infrastructure from independent sources

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- Overhead cable tray for distribution – to allow for better under floor airflow
- Overhead power distribution infrastructure – to provide a flexible power supply system for the ever-changing process environment.
- Network infrastructure and distribution – to build redundant links
- Clean agent fire suppression system
- Complete Air Conditioning (AC) upgrade – To allow further expansion
- Relocate all cables from under the raised floor – to mitigate electrical hazards when leaks happen
- Provide electronic monitoring of the new and existing critical infrastructure, to keep the user community informed.

The completion of this project will provide the needed infrastructure that ensures a stable data center that will allow for some expansion due to changing needs and allow the University to explore long term options.

The Planning Budget is attached for your consideration and approval.

CAPITAL PROJECT BUDGET REPORTING FORM

TYPE BUDGET: PLANNING

PROJECT NAME: GANT BUILDING RENOVATIONS - DATA CENTER STABILIZATION

BUDGETED EXPENDITURES		PROPOSED PLANNING 11/14/2012
CONSTRUCTION	$	2,750,000
DESIGN SERVICES		522,497
TELECOMMUNICATIONS		-
FURNITURE, FIXTURES AND EQUIPMENT		300,000
CONSTRUCTION ADMINISTRATION		-
OTHER AE SERVICES (including Project Management)		-
ART		-
RELOCATION		-
ENVIRONMENTAL		-
INSURANCE AND LEGAL		-
MISCELLANEOUS		-
OTHER SOFT COSTS*		15,003
SUBTOTAL	$	3,587,500
PROJECT CONTINGENCY		412,500
TOTAL BUDGETED EXPENDITURES	$	4,000,000
SOURCE(S) OF FUNDING		
UCONN 2000 PHASE III	$	4,000,000
TOTAL BUDGETED FUNDING	$	4,000,000

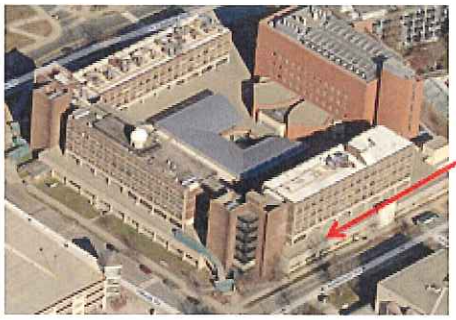
*Does not include Furniture, Fixtures and Equipment.

BOT 11.14.12
901755

GANT BUILDING RENOVATIONS – DATA CENTER STABILIZATION

Project Budget (PLANNING)

11/13/2012



EDWARD V. GANT BUILDING

DATA CENTER – GROUND FLOOR LOCATION

ORIGINAL POWER DISTRIBUTION

SINGLE UNINTERRUPTABLE POWER SUPPLY

OUTDATED MONITORING SYSTEM

SUPPLEMENTAL COOLING