



March 18, 2024

M E M O R A N D U M

TO: Jim Murdaugh, Ph.D.
President

FROM: Barbara Wills, Ph.D.
Vice President for Administrative Services and Chief Business Officer

SUBJECT: TCC Science and Math Building AHU-1, 2, 3 and 4 Replacements Project

Item Description

This item requests approval of the attached Turn Key solution for the replacement of Air Handler Units (AHUs) 1, 2, 3 and 4 at the Science and Math (SM) Building No. 18, located on TCC's Main Campus – Site 1, 444 Appleyard Dr.

Overview and Background

As part of the Main Campus/CUP Infrastructure Upgrades, it was identified that the AHUs-1, 2, 3 and 4 at the Science and Math Building No. 18 have been operating with poor HVAC performance, air quality issues, and are extremely energy inefficient. During evaluation, it has been determined that due to the age of the AHU's, they have clogged coils and unrepairable damage making them obsolete in design and no longer supporting our indoor air quality program. The units require upgrades to support the modern guideline requirements and are recommended for replacement. The attached Proposal no. 8670882 in the amount of \$1,350,000.00 was received from SIEMENS and is recommended for all labor and materials for the Turn Key solution for the replacement of AHUs-1, 2, 3 and 4 at Science and Math Building No. 18 on TCC's Site 1, Main Campus.

The attached budget/estimate is being provided according to the pricing established under the DMS Florida State Term Contract; DMS-14-15-003 FACS SA and T_M CONTRACTS.

Funding/ Financial Implications

This project will be funded from Federal funds.

Past Actions by the Board

None

Recommended Action

Approve the attached proposal no. 8670882 from SIEMENS as presented.

PROPOSAL

TCC - AHU Replacement Project Budget Information

PREPARED BY

Siemens Industry, Inc. ("Siemens")

PREPARED FOR

TALLAHASSEE COMMUNITY COLLEGE

DELIVERED ON

March 04, 2024

SMART BUILDINGS

Transforming the Everyday



Table of Contents

SIEMENS PROPOSAL	3
Contact Information	3
Executive Summary	3
Contracting Vehicle	4
Inclusions	6
Sell Price	14
Terms and Conditions.....	15
Terms & Conditions Link(s)	15
Signature Page	16
Signature Page	16

Contact Information

Proposal #:	8670882
Date:	March 04, 2024

Sales Executive:	Jason M Taylor
Branch Address:	113 Progress Drive Tallahassee, FL 32304
Telephone:	513-368-9073
Email Address:	jason.taylor@siemens.com

Customer Contact:	Don Herr
Customer:	TALLAHASSEE COMMUNITY COLLEGE
Address:	444 APLEYARD DR TALLAHASSEE FL 32304-2815
Services shall be provided at:	TALLAHASSEE COMMUNITY COLLEGE 444 APLEYARD DR TALLAHASSEE FL 32304-2815

Executive Summary

Siemens Industry, Inc. is proud to present our Turn Key solution for 4 AHU's. We are uniquely qualified, and offer the best reliable solution, as well as, long term site support. Our Tallahassee Team is prepared to fully commit the required resources to meet all project objectives. The below proposed solutions is in response to site investigations at the request of Tallahassee Community College. During multiple site visits to evaluate issues at the main campus associated with poor HVAC performance and air quality issues it has been determined that due to the age of AHU-1, 2, 3, 4 have clogged coils and unreparable damage that now requires replacement. Siemens will be utilizing the DMS Florida State Term Contract as the vehicle to provide this solution.

Contracting Vehicle

To: Purchasing

This document is for reference related to Purchases of Siemens products and services for equipment manufactured and installed by Siemens Industry, Inc. installed in facilities referenced above.

Services provided by Siemens include one or multiple of the following:

- Support for Siemens Building Automation, Siemens Fire Alarm, Siemens Security, Siemens CCTV, Siemens Electrical Metering Systems, Siemens Energy Services, Measurement and Verification, Siemens Mechanical Services and General and Mechanical contracting.

Siemens Industry, Inc. is the manufacturer, installer and servicer of Siemens building systems, including building temperature control, laboratory control, lighting control, fire, security, mechanical and energy management systems supporting various Florida public sector entities as defined in F.S. including the Florida Department of Management Services (DMS) since 1993.

As the manufacturer Siemens Industry, Inc. authorizes systems hardware, software and installed systems purchases, updates, expansions and/or support to be provided exclusively by Siemens Industry, Inc. factory direct branches or by specified value added partners for specific market segments.

Siemens value added partners are not authorized to provide support for **Department of Management Services** as well as other specific Florida public sector entities. Additionally non-Siemens vendor/contractors/suppliers may not offer any Siemens systems hardware and services and/or imply in any form that they are "Siemens Authorized" and do not have authorized channel access to systems hardware/software or updates thereof. Limited component parts only (valves, actuators, etc.) may be available via supply chain vendors such as "Grainger" however, systems hardware, software and installed systems or service are not authorized to be sold through supply chain.

Siemens Industry, Inc. is a "statewide" vendor as listed in MyFlorida MarketPlace under "Siemens Industry, Inc. BT Div, FEID F132762488".

Siemens Industry, Inc. supports the Florida public sector market through Factory Direct Branch Offices in (10) Florida cities.

Pricing transparency as required by F.S. for single source purchases is available and may be defined in the associated agreement request for single source or as below.

Option 1

State of Florida Dept. of Management Services
DMS-14-15-003 FACS SA and T_M CONTRACTS

Option 2

National Joint Powers Alliance. www.njpacoop.org
Siemens: Contract 03157SIE Technology
Siemens: Contract 030817SIE HVAC Services

Option 3

Many other government procurement vehicles are available for consideration such as GSA upon request and applicability.

Inclusions

Siemens will provide and Install the following:

4 AHU's to include the following equipment type:

- Air Handling Units (REPLACEMENTS for AHU 1)
Temtrol Air Handling Unit with the following options:
Thermal break double wall construction.
2" thick, 3lb density fiberglass insulation.
Intergrated Frame for upper cabinet
Unit base is 5 in Steel tube
Aluminum 0.125 tread plate floor
Access door
One set of 30% class II OA pre filters with filter gauge and holding frame.
- Outdoor air cooling coil with stainless steel drain pan.
Main cooling coil with stainless steep drain pan.
One set of 30% 2" class pre filters and one set of 21" 90-95% class I final filter.
Supply fan with ODP premium efficiency motor, inertia isolation base and monorail system.



picture is for reference only and is not the actual air handler being provided.

AHU Equipment Installation:

- Demolish and dispose of existing AHU's
- Ductwork
- Install Hydronic Control Valves and Piping for chilled water and hot water systems
- pipe fittings to connect existing heating & chilled water services to new AHU's
- Insulation
- Disposables, power tools and hand tools
- Hangers and supports necessary for installation
- Tie-ins to existing lines as required
- Demolish and dispose of existing AHU's
- New Ductwork for AHU's in the mechanical room for proper routing and connections to the building HVAC
- Freight, delivery and handling
- Crane and hoisting
- Rental equipment
- Warranty to be one (1) year from the earlier of the date of substantial completion or the first beneficial operation or use by contractor or owner
- Pipe and fittings to connect existing heating hot water and chilled water services to new AHU's
Install hydronic control valves for chilled and heating hot water feeds.

Air Handling Unit Controls Refresh:

- Siemens has included the following points:
 - (1) Supply Air Temperature
 - (1) Supply Air Humidity
 - (1) Supply Air 2/3 Static Pressure
 - (1) Supply Air High Static Cutout
 - (1) Supply Air Low Static Cutout
 - (1) Return Air Temperature
 - (1) Return Air Humidity
 - (1) Return Air High Static Cutout
 - (1) Return Air Static Pressure
 - (1) Return Air Low Static Cutout
 - (1) Mixed Air Temperature
 - (2) LTDE Sensor
 - (1) Supply Air Fan Airflow – Transducer
 - (1) Outside Air – Airflow (Ebtron Gold)
 - (1) Supply Fan VFD – BACnet + Hardwired - Start/Stop, Speed, Speed Feedback, Alarm, Status-VFD-Bypass
 - (1) CHW Valve and Actuator
 - (1) Final Filter Static Switch

- (1) Min Outside Air Damper Actuator w/ End Switch
 - (1) Return Air Damper Actuator
 - (1) Return Air CO2 Sensor
-
- Air Handling Units (REPLACEMENTS for AHU 2)
Temtrol Air Handling Unit with the following options:
Thermal break double wall construction.
2" thick, 3lb density fiberglass insulation.
Integrated Frame for upper cabinet
Unit base is 5 in Steel tube
Aluminum 0.125 tread plate floor
Access door
One set of 30% class II OA pre filters with filter gauge and holding frame.
 - Outdoor air cooling coil with stainless steel drain pan.
Main cooling coil with stainless steel drain pan.
One set of 30% 2" class pre filters and one set of 21" 90-95% class I final filter.
Supply fan with ODP premium efficiency motor, inertia isolation base and monorail system.



picture is for reference only and is not the actual air handler being provided.

AHU Equipment Installation:

- Demolish and dispose of existing AHU's
- Ductwork
- Install Hydronic Control Valves and Piping for chilled water and hot water systems
- pipe fittings to connect existing heating & chilled water services to new AHU's
- Insulation
- Disposables, power tools and hand tools
- Hangers and supports necessary for installation
- Tie-ins to existing lines as required
- Demolish and dispose of existing AHU's
- New Ductwork for AHU's in the mechanical room for proper routing and connections to the building HVAC
- Freight, delivery and handling
- Crane and hoisting
- Rental equipment
- Warranty to be one (1) year from the earlier of the date of substantial completion or the first beneficial operation or use by contractor or owner
- Pipe and fittings to connect existing heating hot water and chilled water services to new AHU's
- Install hydronic control valves for chilled and heating hot water feeds.

Air Handling Unit Controls Refresh:

- Siemens has included the following points:
 - (1) Supply Air Temperature
 - (1) Supply Air Humidity
 - (1) Supply Air 2/3 Static Pressure
 - (1) Supply Air High Static Cutout
 - (1) Supply Air Low Static Cutout
 - (1) Return Air Temperature
 - (1) Return Air Humidity
 - (1) Return Air High Static Cutout
 - (1) Return Air Static Pressure
 - (1) Return Air Low Static Cutout
 - (1) Mixed Air Temperature
 - (2) LTDE Sensor
 - (1) Supply Air Fan Airflow – Transducer
 - (1) Outside Air – Airflow (Ebtron Gold)
 - (1) Supply Fan VFD – BACnet + Hardwired - Start/Stop, Speed, Speed Feedback, Alarm, Status-VFD-Bypass
 - (1) CHW Valve and Actuator
 - (1) Final Filter Static Switch
 - (1) Min Outside Air Damper Actuator w/ End Switch
 - (1) Return Air Damper Actuator
 - (1) Return Air CO2 Sensor

- Air Handling Units (REPLACEMENTS for AHU 3)
Temtrol Air Handling Unit with the following options:
Thermal break double wall construction.
2" thick, 3lb density fiberglass insulation.
Intergrated Frame for upper cabinet
Unit base is 5 in Steel tube
Aluminum 0.125 tread plate floor
Access door
One set of 30% class II OA pre filters with filter gauge and holding frame.
- Outdoor air cooling coil with stainless steel drain pan.
Main cooling coil with stainless steep drain pan.
One set of 30% 2" class pre filters and one set of 21" 90-95% class I final filter.
Supply fan with ODP premium efficiency motor, inertia isolation base and monorail system.



picture is for reference only and is not the actual air handler being provided.

AHU Equipment Installation:

- Demolish and dispose of existing AHU's
- Ductwork
- Install Hydronic Control Valves and Piping for chilled water and hot water systems

- pipe fittings to connect existing heating & chilled water services to new AHU's
- Insulation
- Disposables, power tools and hand tools
- Hangers and supports necessary for installation
- Tie-ins to existing lines as required
- Demolish and dispose of existing AHU's
- New Ductwork for AHU's in the mechanical room for proper routing and connections to the building HVAC
- Freight, delivery and handling
- Crane and hoisting
- Rental equipment
- Warranty to be one (1) year from the earlier of the date of substantial completion or the first beneficial operation or use by contractor or owner
- Pipe and fittings to connect existing heating hot water and chilled water services to new AHU's
Install hydronic control valves for chilled and heating hot water feeds.

Air Handling Unit Controls Refresh:

- Siemens has included the following points:
 - (1) Supply Air Temperature
 - (1) Supply Air Humidity
 - (1) Supply Air 2/3 Static Pressure
 - (1) Supply Air High Static Cutout
 - (1) Supply Air Low Static Cutout
 - (1) Return Air Temperature
 - (1) Return Air Humidity
 - (1) Return Air High Static Cutout
 - (1) Return Air Static Pressure
 - (1) Return Air Low Static Cutout
 - (1) Mixed Air Temperature
 - (2) LTDE Sensor
 - (1) Supply Air Fan Airflow – Transducer
 - (1) Outside Air – Airflow (Ebtron Gold)
 - (1) Supply Fan VFD – BACnet + Hardwired - Start/Stop, Speed, Speed Feedback, Alarm, Status-VFD-Bypass
 - (1) CHW Valve and Actuator
 - (1) Final Filter Static Switch
 - (1) Min Outside Air Damper Actuator w/ End Switch
 - (1) Return Air Damper Actuator
 - (1) Return Air CO2 Sensor
- Air Handling Units (REPLACEMENTS for AHU 4)
Temtrol Air Handling Unit with the following options:
Thermal break double wall construction.

2" thick, 3lb density fiberglass insulation.

Intergrated Frame for upper cabinet

Unit base is 5 in Steel tube

Aluminum 0.125 tread plate floor

Access door

One set of 30% class II OA pre filters with filter gauge and holding frame.

- Outdoor air cooling coil with stainless steel drain pan.

Main cooling coil with stainless steep drain pan.

One set of 30% 2" class pre filters and one set of 21" 90-95% class I final filter.

Supply fan with ODP premium efficiency motor, inertia isolation base and monorail system.



picture is for reference only and is not the actual air handler being provided.

AHU Equipment Installation:

- Demolish and dispose of existing AHU's
- Ductwork
- Install Hydronic Control Valves and Piping for chilled water and hot water systems
- pipe fittings to connect existing heating & chilled water services to new AHU's
- Insulation
- Disposables, power tools and hand tools

- Hangers and supports necessary for installation
- Tie-ins to existing lines as required
- Demolish and dispose of existing AHU's
- New Ductwork for AHU's in the mechanical room for proper routing and connections to the building HVAC
- Freight, delivery and handling
- Crane and hoisting
- Rental equipment
- Warranty to be one (1) year from the earlier of the date of substantial completion or the first beneficial operation or use by contractor or owner
- Pipe and fittings to connect existing heating hot water and chilled water services to new AHU's
Install hydronic control valves for chilled and heating hot water feeds.

Air Handling Unit Controls Refresh:

- Siemens has included the following points:
 - (1) Supply Air Temperature
 - (1) Supply Air Humidity
 - (1) Supply Air 2/3 Static Pressure
 - (1) Supply Air High Static Cutout
 - (1) Supply Air Low Static Cutout
 - (1) Return Air Temperature
 - (1) Return Air Humidity
 - (1) Return Air High Static Cutout
 - (1) Return Air Static Pressure
 - (1) Return Air Low Static Cutout
 - (1) Mixed Air Temperature
 - (2) LTDE Sensor
 - (1) Supply Air Fan Airflow – Transducer
 - (1) Outside Air – Airflow (Ebtron Gold)
 - (1) Supply Fan VFD – BACnet + Hardwired - Start/Stop, Speed, Speed Feedback, Alarm, Status-VFD-Bypass
 - (1) CHW Valve and Actuator
 - (1) Final Filter Static Switch
 - (1) Min Outside Air Damper Actuator w/ End Switch
 - (1) Return Air Damper Actuator
 - (1) Return Air CO2 Sensor
1. The project cost includes the tie in of the associated BMS system to the existing Siemens BMS front end workstation
 2. Control wiring shall be run in conduit where exposed. Control wiring shall be run using plenum rated cable without conduit in concealed accessible locations and above lift-out ceiling

Sell Price

Project Budget Amount	\$1,350,000.00
-----------------------	----------------

Recommended Contingency	\$135,000.00
-------------------------	--------------