

# All Agency Project Request

2011 - 2013 Biennium

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<b><u>Agency</u></b>	<b><u>Institution</u></b>	<b><u>Building No.</u></b>	<b><u>Building Name</u></b>
University of Wisconsin	Oshkosh	285-0F-0019	ARTS AND COMMUNICATION

<b><u>Project No.</u></b>	11F2K	<b><u>Project Title</u></b>	Arts & Comm AHUs Repl
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## **Project Intent**

This project replaces all eleven (11) air handling units to address building humidity problems in the music and theater areas and the performance and maintenance issues associated with all mechanical systems.

## **Project Description**

Project work includes replacing AC-4 (12,500 CFM) serving the Theater; AC-5 (7,500 CFM) serving the front office and ancillary Theater spaces; AC-6 (24,500 CFM) serving the art laboratories; AC-7 (8,825 CFM) serving the basement music laboratories; AC-8 (4,400 CFM) serving the art gallery; AC-9 (34,800 CFM) serving the office tower; AC-10 (14,465 CFM) serving the 1st floor music laboratories; AC-11 (15,060 CFM) serving the 1st floor laboratories; AC-12 (15,000 CFM) serving the music hall; AC-13 (19,415 CFM) serving the 2nd floor music laboratories; and AC-14 (18,800 CFM) serving the 2nd floor art laboratories. The design process will determine if any of the units can be combined, or if each unit will be replaced in kind. The new mechanical system will include new air handling units with variable frequency drives (VFD), preheating coils supplied from the central campus steam system, cooling coils selected for the central chilled water temperatures, air blenders, and bag type air filters. The new units will allow higher outside air levels and higher chilled water temperatures, provide appropriate outside air exchanges, and provide discharge air temperatures down to 55 degrees Fahrenheit during the cooling season. The pneumatic controls still in operation will be replaced by new direct digital controls (DDC). Selective demolition of partition walls, door assemblies, and exterior louvers will be required to facilitate the equipment and ductwork removal.

## **Project Justification**

The air handling units are original building equipment that are more than 42 years old and have exceeded their useful lives. The building has high humidity levels in the summer months and all efforts to control this situation have been ineffective. Although the high humidity levels are confined to the A-wing (Theater) and C-wing (Music Department), due to overall age and condition of the entire system, all of the units should be replaced. As a result of uncontrolled humidity in the summer, wooden musical instruments have swelled and cracked. In addition, wood floors in the Music Hall and Theater have buckled. Tens of thousands of dollars have been spent to replace damaged musical equipment.

## **A/E Consultant Requirements**

Consultants should have specific expertise and experience in the design and coordination of commercial or institutional HVAC systems as part of a design team. Work includes acquiring field data, and verifying as-built conditions to assure accurate development of design and bidding documents, and production of necessary design and bidding documents. Consultants should indicate specific projects from past experience (including size, cost, and completion date) in their letter of interest and when known, include proposed consulting partners and specialty consultants.

A/E Selection Required?

## **Commissioning**

- Level 1  
 Level 2

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## Project Budget

Construction Cost:		\$2,140,000	
Haz Mats:		\$60,000	
Construction Total:		\$2,200,000	
Contingency:	15%	\$330,000	
A/E Design Fees:	8%	\$176,000	
DFD Mgmt Fees:	4%	\$101,200	
Equipment/Other:		\$28,000	
		\$2,835,200	

## Funding Source

	<u>Total</u>
GFSB - Facilities Maintenance & Renovation [Z060]	\$2,835,200
PRSB - []	\$0
Agency/Institution Cash []	\$0
Gifts	\$0
Grants	\$0
Building Trust Funds [BTF]	\$0
Other Funding Source	\$0
	\$2,835,200

## Project Schedule

SBC Approval: 12/2011  
 A/E Selection: 01/2012  
 Bid Opening: 01/2013  
 Construction Start: 04/2013  
 Substantial Completion: 09/2013  
 Project Close Out: 12/2013

## Project Contact

Contact Name: Steven A. Arndt  
 Email: <arndt@uwosh.edu>  
 Telephone No.: (920) 424-3102 x

## Project Scope Consideration Checklist

- |  | <u>Y</u>                            | <u>N</u>                            |
|--|-------------------------------------|-------------------------------------|
| 1. Will the building or area impacted by the project be occupied during construction? If yes, explain how the occupants will be accommodated during construction.<br><br><i>All project work will be coordinated through campus physical plant staff to minimize disruptions to daily operations and activities.</i>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 2. Is the project an extension of another authorized project? If so, provide the project #...  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. Are hazardous materials involved? If yes, what materials are involved and how will they be handled?<br><br><i>Required hazardous materials abatement has been included in the estimated project schedule and project budget. Comprehensive building survey inventory data (IS/IS NOT) available on Wisconsin's Asbestos &amp; Lead Management System (WALMS) &lt;http://walms.doa.state.wi.us/&gt;.</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent?<br><br><i>Spaces within each air handling zone will not have conditioned air available as each unit is being replaced.</i>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 5. Will the project impact the heating plant, primary electrical system, or utility capacities supplying the building? If yes, to what extent?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 6. Are other projects or work occurring within this project's work area? If yes, provide the project # and/or description of the other work in the project scope.  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

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7. Have you identified the WEPA designation of the project...Type I, Type II, or Type III?    
Type III.
8. Is the facility listed on a historic register (federal or state), or is the facility listed by the Wisconsin Historical Society as a building of potential historic significance? If yes, describe here.
9. Are there any other issues affecting the cost or status of this project?
10. Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed solution.
11. Will the project improve, decrease, or increase the function and costs of facilities operational and maintenance budget and the work load? If yes, to what extent?    
Operational and maintenance costs should decrease after the project is completed.
12. Are there known code or health and safety concerns? If yes, identify and indicate if the correction or compliance measure was included in the budget estimate, or indicate plans for correcting the issue(s).
13. Are there potential energy or water usages reduction grants, rebates, or incentives for which the project may qualify (i.e. Focus on Energy <<http://www.focusonenergy.com>> or the local utility provider)? If yes, describe here.
14. If this is an energy project, indicate and describe the simple payback on state funding sources in years and the expected energy reduction here.